Appendix A

Glare Analysis Report

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Glare Analysis Report

Pronghorn Solar and Storage Project

APRIL 2025

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A Detailed Modeling Results

Acronyms and Abbreviations

Acronym/Abbreviation	Definition
ATCT	air traffic control tower
BESS	battery energy storage systems
DoD	Department of Defense
FAA	Federal Aviation Administration
Gen-tie	generation tie line
kV	kilovolt
MW	megawatt
Project	Pronghorn Solar and Storage Project
PMD	Palmdale Regional Airport
PV	photovoltaic
report	Glare Analysis Report

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Executive Summary

The purpose of this Glare Analysis Report (report) is to assess the potential glare impacts associated with implementation of the proposed Pronghorn Solar and Storage Project (project) on nearby air and ground receptors.

To perform this analysis, Dudek staff used an industry standard 3-D geometric glare analysis software tool developed by Sandia National Laboratories and licensed by ForgeSolar. This software classifies glare in one of three categories, as follows (ForgeSolar 2019):

- **Green:** Low potential for the glare to cause an after-image
- **Yellow:** Potential to cause a temporary after-image
- **Red:** Potential to cause retinal burn and permanent eye damage

This report focuses on the potential for glare on ground-based sensitive receptors within a 5-mile study area, as well as various runway approach paths associated with Palmdale Regional Airport (PMD), which is currently joint operated by the United States Air Force and the City of Palmdale.

The results of the analysis indicate that the project would not result in any "yellow" glare (potential for after-image) or "red" glare (potential for permanent eye damage) towards any of receptors associated with operations at PMD. Some glare in the "green" ocular hazard range (low potential for after-image) was predicted towards 3 of the flight approach paths analyzed. There was no glare predicted towards the air traffic control tower (ATCT) at PMD.

The FAA has recently concluded that glare from photovoltaics is similar to the glare pilots routinely experience from water bodies, glass façade buildings, parking lots, and other like features (86 FR 25801–25803). At the times that glare is predicted towards receptors associated with PMD, the glare from the setting sun and the glare from the panels will be originating from the same general direction, as seen by the receptors. Because of this, and the fact that the intensity of the glare from the setting sun will be significantly higher than the glare from the project (ForgeSolar 2019), it is not anticipated that the project will adversely affect operations at PMD.

According to the results of the analysis, a segment of East Avenue K (Route04) which runs east-west adjacent to the project on the northern-most boundary, could receive glare in the "yellow" ocular hazard range for approximately 9 minutes per day, on average. This glare is predicted to occur in the very early morning and late afternoons when the sun is approximately 1 degree above the horizon and will occur only during the fall and winter months. On average, 3 daily minutes of glare in the "green" ocular hazard range is predicted to occur at the same general time as the "yellow" glare.

At the times that glare is predicted towards motorists traveling along Route04, the glare from the setting sun and the glare from the panels will be originating from the same general direction, as seen by the receptors. Because of this, and the fact that the intensity of the glare from the setting sun will be significantly higher than the glare from the project (ForgeSolar 2019), it is not anticipated that the project will adversely affect motorists on Route04.

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1 Introduction

1.1 Purpose and Scope

This report assesses the potential glare impacts associated with implementation of the project on nearby air and ground receptors. The analysis was conducted per U.S. Federal Aviation Administration's (FAA) recommended procedures described in the Technical Guidance for Evaluating Selected Solar Technologies on Airports (FAA 2018). Although the project is not located on a federally obligated airport, the geometric glare modeling software used in this report adheres to FAA policy regarding solar energy projects on federally obligated airports (86 FR 25801–25803) as an effective tool for assessing potential glare impacts to nearby receptors.

This report focuses on the potential for glare on ground-based sensitive receptors within a 5-mile study area, as well as various flight and runway approach paths associated with PMD, which is currently joint operated by the United States Air Force and the City of Palmdale.

This report includes an introduction to the photovoltaic (PV) technologies proposed to be implemented on the project site and their potential to result in glare. Chapter 2, Project Description, provides a description of the project and the project location; Chapter 3, Regulations and Regulatory Standards, describes regulatory standards for glare analyses and relevant glare policies; and Chapter 4, Glare Impacts, describes the methodology used to perform the glare analysis and provides a summary of the analysis results. Chapter 5, References, provides a list of the references cited in this report, and Chapter 6, Document Preparers, provides a list of those involved in the preparation of this report. Lastly, the complete detailed glare results generated by the modeling software are provided in Appendix A.

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2 Project Description

2.1 Project Location

The project site is located near the intersection of 90th Street East and East Avenue L, approximately 10 miles east of State Route 14, in unincorporated Los Angeles County in the Antelope Valley. The site is composed of Assessor's Parcel Numbers 3378-003-001, 3378-004-008, 3376-006-012, and 3376-011-035 (See Figure 1). The project's PV facility will be located on APNs 3378-003-001 and 3378-004-008. The project's BESS facility will be located on APN 3376-006-012 and the project substation will be located on APN 3376-011-035. The medium voltage collection lines will be located on the western perimeter of APNs 3376-026-026, -027, -028, -029, -030, -031, -032, and -033 which are located in the City of Lancaster and the remainder of the PV collection lines will be located via Franchise Agreement within 90th Street East existing road right-of-way. The existing Southern California Edison (SCE) Piute Substation is located on APN 3376-011-800.

The topography of the project area is relatively flat, consisting primarily of fields and roads. The PV facility parcels have been extensively cleared, plowed, and maintained for agricultural production. The BESS facility parcel is undeveloped land, and the project substation parcel is developed with existing structures.

2.2 Project Characteristics

The proposed Project would use photovoltaic panels or modules (including but not limited to concentrated photovoltaic technology) on mounting frameworks to convert sunlight directly into electricity. The project will likely employ a single axis tracking system to follow the sun over the course of the day. The project will have up to a 50-megawatt (MW) PV solar power capacity, and the associated BESS will have up to a 50 MW power capacity. The project will include construction of collection lines and a project substation, which will connect the project to the existing SCE Piute Substation. A generation tie (gen-tie) line will directly connect the project substation to the existing SCE Piute Substation.

The PV facility, BESS facility, project substation, collection/gen-tie lines, and the Piute Substation are shown on Figure 1.

This report considers the impacts of the PV solar arrays and their potential to generate glare on nearby sensitive receptors. The project would include other components that do not have potential for significant glare and are therefore not analyzed in this report, such as:

- 66 kV gen-tie line
- Power blocks of electrical generating capacity
- Power collection and power conversion systems
- Battery energy storage system
- Project electrical substation
- Roadway system consisting of internal and perimeter roadways
- Site security, fencing, and lighting

All of the project components are located off PMD property, outside of navigable airspace, and outside of the Runway Protection Zone, Runway Safety Area, Object Free Area, and Clearway as defined by the FAA (FAA 2018). The project is outside the area of influence for PMD, as shown on Figure 1.

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3 Regulations and Regulatory Standards

3.1 Federal

U.S. Federal Aviation Administration

To understand and model glare, this report uses the FAA- and Department of Defense- (DoD) approved GlareGauge analysis tool (ForgeSolar 2019). With GlareGauge, standardized safety metrics define the anticipated glare intensity that would cause unwanted visual impacts to air traffic control towers and airplane pilots. Glare intensity is described according to potential for after-image and is illustrated on FAA's Solar Glare Ocular Hazard Plot. Low potential for after-image is referred to as "green" glare, and potential for after-image is referred to as "yellow" glare. "red" glare is representative of glare conditions with potential for permanent eye damage (ForgeSolar 2019).

GlareGauge is also able to evaluate the potential of a particular PV array to produce glare intensity, predicting when and where glare would occur from a proposed PV array at discrete observation points (e.g., from the air traffic control tower or runway approach). In instances where glare may be a concern, the tools can prescribe minor adjustments to the tilt, direction, and location of the panels to alleviate issues.

For this analysis, Dudek staff used the industry standard GlareGauge 3-D geometric glare analysis software tool to disclose potential glare impacts associated with operation of the project. See Section 4.2.3, Geometric Glare Analysis, and Section 4.2.4, Limitations of the Geometric Analysis, for more information about the modeling parameters and limitations.

Per FAA policy set forth at 86 FR 25801–25803, solar energy systems on airport property must not produce glare of any kind for air traffic control tower(s) at cab height. However, this policy only applies to proposed solar energy systems on federally obligated airport property and only those airports with control towers. Because the project does not fall on PMD property, this policy does not apply to the project, but was included in this report to describe the standard methodologies used to assess solar glare near operating airports.

Per FAA policy set forth at 86 FR 25801–25803, glare from photovoltaic projects is similar to the glare pilots routinely experience from bodies of water, parking lots, and other similar features, and therefore is no longer a major concern for pilots. However, as described below, Dudek has included the flight paths as receptors in this analysis to conform to prudent industry practices to study the potential for the project to cast glare upon neighboring potential receptors.

U.S. Department of Defense

On June 11, 2014, the DoD issued a policy memorandum requiring the use of the Solar Glare Hazard Analysis Tool for renewable energy projects on DoD land pursuant to 10 U.S.C. § 2667 or serving DoD operations pursuant to 10 U.S.C. § 2922a. However, the project is not located on DoD land and will not serve DoD operations such that use of the Solar Glare Hazard Analysis Tool is not required.

3.2 State

California Environmental Quality Act (CEQA)

CEQA requires an analysis of aesthetic impacts when an agency or individual proposes an activity which may cause either a direct physical change in the environment, or a reasonably foreseeable indirect physical change in the environment. In Appendix G, Environmental Checklist Form, the 2019 CEQA Statute and Guidelines contains the follow impact threshold related to glare:

- Would the project create a new source of substantial light or glare which would adversely affect day or nighttime views in the area?

Other than the CEQA Guidelines, there are no state regulations pertaining to potential glare effects associated with the operation of solar facilities.

3.3 Local

Los Angeles County General Plan

Chapter 22.140.510 of the Los Angeles County General Plan, also known as The Renewable Energy Ordinance (REO), updates the County's planning and zoning code for the review and permitting of solar and wind energy projects. The ordinance requires the following:

- That a glare study be submitted with the application for Conditional Use Permit
- That the project be designed and located to minimize reflective glare toward any habitable structure on adjacent properties as well as adjacent street rights of way.

4 Glare Impacts

4.1 General Concepts of Solar Technologies and Glare

The project would involve the installation of PV panels to convert the sun's light into electrical energy. To increase the efficiency of this conversion process, designers of solar systems strive to maximize the amount of solar energy that can be absorbed by solar cells. This work towards increasing efficiency has the added benefit of reducing the amount of light that could potentially reflect off the solar panels. Reflected light can cause glint (a quick reflection) and glare (reflection that lasts for a longer duration), which can create hazards for air-traffic-control personnel, motorists, and other potential receptors (ForgeSolar 2019). For the purpose of this report, any light reflected off of the solar panels or any other reflective surface is referred to as "glare."

There are several key design considerations that can reduce glare from solar panels. One of the main factors of reflectance is the position of the PV modules relative to the sun. A panel that has been designed to absorb 90% of the sunlight that directly meets the face of the panels (perpendicular to the sun's rays) may have that absorption significantly reduced if the panel is not directly facing the sun (ForgeSolar 2019). Because the sun tracks across the sky over the course of a day, fixed-mount stationary panels can only maximize its efficiency for a few minutes out of the day when the sunlight is directly perpendicular to the face of the panel. To maximize the amount of solar energy generated from the solar array, some PV systems employ tracking mechanisms that adjust to track the sun's trajectory as it crosses the sky. Figure 2, Comparison of Photovoltaic Tracking Systems, provides an illustrative example of a fixed-mount panel system, single-axis tracking system, and dual-axis tracking system.

In addition to panel orientation, the materials used in the panel construction play an important role in reducing glare and maximizing efficiency. For example, different glass textures can be used to absorb light beams into the solar array, and anti-reflective coatings can be added to the glass to further reduce reflectivity at high-incidence angles (the angle at which the light hits the solar array) (ForgeSolar 2019).

The project is anticipated to employ a single-axis tracking system, as illustrated by the middle panel system in Figure 2. The axis of rotation would be aligned north–south with a maximum tracking angle of 60°. This analysis conservatively assumes the panels would be constructed out of smooth glass without anti-reflective coating, as further described in Section 4.2.3.

Glare can result in visual hazards and temporary loss of vision (also known as flash blindness). The hazard level of glare depends on the ocular impact to the observer. Generally, an ocular impact is calculated as a function of the size and distance of the glare spot and the intensity of the light. For the purpose of this report, an ocular impact is classified in one of three categories, as follows (ForgeSolar 2019):

- **Green:** Low potential for the glare to cause an after-image
- **Yellow:** Potential to cause a temporary after-image
- **Red:** Potential to cause retinal burn and permanent eye damage

4.2 Methodology

In order to determine where and when glare might occur as a result of development of the project, Dudek staff utilized a multi-step process that included a combination of spatial analysis, 3D geometric modeling, and aerial imagery interpolation. A typical 5-mile study radius was used for ground-based observers because that distance approximates the maximum distance that an observer standing at ground-level could see the proposed photovoltaic panels before the curvature of the Earth would intervene (assuming a perfect sphere, no built environmental obstruction, and flat topography). Because of this, and the fact that the potential for glare reduces as distance from the glare source increases (ForgeSolar 2019), the 5-mile-radius study area was determined to be adequate for this analysis, as shown in Figure 3, Receptor Locations.

Dudek performed a visibility analysis on the surrounding terrain to predict where the project would be visible at any location within the study area. Using publicly available terrain data from the U.S. Geological Survey, Dudek staff created a detailed elevation model that covered the 5-mile study area. Results of the visibility analysis are shown in Figure 2.

As shown in this analysis, with the exception of Alpine Butte to the southeast of the project, areas in the vicinity of the project have their views limited to less than approximately 40% of the project's PV arrays. This estimate should be considered worst-case, as the visibility study does not consider aboveground features such as vegetation or structures. Because of the flat terrain within the study area, the views of the project are generally restricted to the profile or leading edge of the panel arrays, with very few views of the arrays from an elevated perspective. For information about technical limitations of the visibility analysis, please refer to section 4.2.4, Limitations of the Geometric Analysis.

Using the visibility analysis in conjunction with Google Street View images from the surrounding roads, Dudek determined the location of potential receptors within the study area as described in sections 4.2.1 and 4.2.2. All receptors associated with PMD were included in this analysis regardless of visibility or distance. Areas within the Glare Study Area that were not predicted to have a direct line of site view of the project were not included in the glare analysis.

A geometric glare analysis was then conducted for the identified potential receptors to determine where and when glare might be encountered. Upon completion of the geometric analysis, Dudek reviewed the results for potential glare hazards and provided recommendations.

For compatibility with the modeling software, the project's PV arrays had to be grouped together to create 6 analysis groups, identified in this report as "PV01" through "PV06." The analysis groups are shown on Figure 3, and the detailed modeling results are presented according to these groups in Appendix A.

4.2.1 Airport Receptor Identification

Each modeled airport receptor associated with PMD, and shown in Figure 3, is described in the following list, and the receptor's precise modeling parameters are provided in Appendix A:

- Air Traffic Control Tower Receptor – There is currently one operating air traffic control tower at PMD. The control tower's location was mapped using aerial photography, and its cab elevation was

determined to be at 150 feet above ground level. This height estimation was obtained from 3D structural data available on Google Earth at the time of the analysis.

- Flight Path Observation Route – Six flight path observation routes were selected to simulate an aircraft following flight paths associated with operations at PMD. Flight path routes use glide slopes, elevation parameters, and cockpit visibility angles. General flight path locations and elevations were provided by the FAA's Aeronautical Information Services web site (FAA 2024).

Table 1 describes the flight path observation routes and provides their analysis IDs, which can be used to review the detailed analysis results in Appendix A. The locations of the flight path observation routes are depicted on Figure 3.

Table 1. Flight Path Receptor Parameters

Airport-Runway	Threshold Crossing Height	Glide Slope	Direction (True Course)
PMD04	75 feet	3.0°	52.0°
PMD07	78 feet	3.0°	86.0°
PMD072	50 feet	3.0°	86.4°
PMD22	75 feet	3.0°	232.0°
PMD25	76 feet	3.0°	266.0°
PMD252	50 feet	3.0°	266.0°

4.2.2 Dwelling and Route Receptor Identification

Using the visibility analysis results in conjunction with aerial imagery, road centerline data, and land use data, Dudek staff selected potential receptors based on their distance from the project, orientation to the project, and the percentage of the project visible from the receptor's location. To avoid false positives in the glare results, only receptors that were predicted to be able to see the project from their location were selected for the analysis. Figure 3 shows the locations of analyzed receptors as well as the modeled array locations. Each modeled receptor type shown on Figure 3 is described below and the receptor's precise modeling parameters can be found in Appendix A:

- Observation Point (OP) – Analysis of the project included 21 existing potentially sensitive structures that were in the vicinity of and within direct line of sight of the project. Because modeling every dwelling within the visibility study area would not be feasible, Dudek staff selected dwellings that represent a variety of directions and distances from the project. The eye-level height of all point observers was set to 5.5 feet. Descriptions of each observation point can be found in Table 2, Observation Point Descriptions.

- Observation Route – Analysis of the project site included five roadway observation routes. Per the American Association of State Highway and Transportation Officials (AASHTO), the eye-level height of observers on the highway/road observation routes was set to 7.6 feet, the average height for observers in large trucks (AASHTO 2001). Descriptions of each route can be found in Table 3, Highway/Road Observation Route Descriptions.

Table 2. Observation Point Descriptions

Analysis ID	Description
OP01	Eastside Elementary School, Lancaster
OP02	Dwelling on 104th Street East, Lancaster
OP03	Dwelling on 104th Street East, Lancaster
OP04	Dwelling on 102nd Street East, Lancaster
OP05	Dwelling at 44421 100th Street East, Lancaster
OP06	Representative Dwelling at 9205 East Avenue J, Lancaster
OP07	Representative Dwelling at 44051 90th Street East, Lancaster
OP08	Dwelling at 44007 100th Street East, Lancaster
OP09	Dwelling at 44000 100th Street East, Lancaster
OP10	Dwellings at 9767-9695 East Avenue J 8, Lancaster
OP11	Representative Dwelling at 43909 90th Street East, Lancaster
OP12	Representative Dwelling at 43841 90th Street East, Lancaster
OP13	Representative Dwelling at 43807 90th Street East, Lancaster
OP14	Representative Dwelling at 43803 90th Street East, Lancaster
OP15	Dwelling at 43853-43851 110th Street East, Lancaster
OP16	Dwelling at 9847 East Avenue K, Lancaster
OP17	Dwelling on 85th Street East, Lancaster
OP18	Potential Dwelling on 100th Street East, Lancaster
OP19	Potential Dwelling on East Avenue K 8, Lancaster
OP20	Potential Dwelling on 90th Street East, Palmdale
OP21	Potential Dwelling on 100th Street East, Palmdale

Table 3. Highway/Road Observation Route Descriptions

Analysis ID	Description
Route01	Segment of East Avenue J
Route02	Segment of 90th Street East
Route03	Segment of 100th Street East
Route04	Segment of East Avenue K
Route05	Segment of East Avenue M

4.2.3 Geometric Glare Analysis

Dudek staff used an industry standard 3-D geometric glare analysis software tool developed by Sandia National Laboratories and licensed by ForgeSolar (ForgeSolar 2019). Though initially developed for solar projects on airports, this software has been validated by industry, academia, and military to be effective for projects of this type (ForgeSolar 2019). By inputting the solar panel locations and characteristics, and the locations and elevations of the receptors, the software can simulate the sun's progression across the sky over the course of a year and model the potential glare caused by the proposed solar arrays. If glare is detected, the software can quantify the level of ocular impact hazard (green, yellow, or red), and pinpoint the exact time of year the glare would occur. This analysis

is automatically performed for every minute of the calendar year, for each module array analysis group, and for each potential receptor defined in the model.

Dudek staff consulted the project applicant to obtain the characteristics of the proposed solar array system. If a design characteristic was unknown, a conservative estimate was used. Data gathered included the physical location, orientation, build material, tilt angle, and tracking technology. These characteristics were entered into the modeling software, as provided in Table 4.

Table 4. Solar Array Model Inputs

Solar Array Characteristics	Proposed Project Configuration
Tracking method	Single-axis
Module surface material	Smooth glass
Tracking axis orientation	North–south
Maximum tracking angle	60°
Resting angle (when sun leaves maximum tracking angle)	0°
Backtracking method	Shade

As described in Table 3, the project is anticipated to utilize a single-axis tracking system. This tracking system would be oriented running north–south with the panel faces rotating from east to west. The system would be able to track the sun's progression across the sky, within the system's 120° range of motion (60° to the east and 60° to the west). When the sun is not within the range of motion, the panels would gradually backtrack and rest at 0° (flat) to avoid self-shading. The duration of the backtracking process changes throughout the year and is dependent on the terrain, panel spacing, and other factors. Dudek's modeling uses a generic shade-aware backtracking algorithm to approximate the angles of the panels when the sun is outside of the maximum tracking angle.

4.2.4 Limitations of the Geometric Analysis

The glare modeling software used in this analysis does not consider existing vegetation, structures, or terrain that might obscure the view of the panels from the receptor locations. Though the visibility analysis was performed to help mitigate this software limitation, there is still a possibility that glare could be predicted at receptors that are unable to clearly see the panels, which would exaggerate the level of predicted glare discussed in Section 4.3, Geometric Analysis Results.

The following features could partially conceal the solar panels from the receptors:

- Buildings and other structures between the receptors and the project site
- Trees, shrubs and other vegetation between the receptors and the project site
- Atmospheric conditions such as clouds, fog, dust, or haze

4.3 Glare Analysis Results

This glare analysis was conducted per the FAA's recommended procedures described in the Technical Guidance for Evaluating Selected Solar Technologies on Airports (FAA 2018), and the geometric glare modeling software used adheres to FAA policy regarding solar energy system projects on federally obligated airports (86 FR 25801–25803).

This policy does not apply to the project but was included in this reporting to describe the standard methodologies used to assess solar glare near operating airports. Specifically, the glare analysis and software quantify the level of ocular impact hazard (reported as "green", "yellow", or "red" glare) and pinpoints the exact time of year the glare would occur.

Because the glare modeling software reports minutes of glare from each modeled array analysis group, there is potential for a minute of impact to be counted more than once. To remedy this, Dudek staff eliminated any duplicate minutes of glare from the analysis, resulting in a maximum of 1 minute of discrete glare for each receptor in each minute of the year. As a result, the total glare minutes reported in Appendix A may differ from the total glare minutes reported in this section.

4.3.1 Results for Airport Receptors

The results of the analysis indicate that, under the proposed project parameters described in Section 4.1, the project would not result in any "yellow" glare (potential for after-image) or "red" glare (potential for permanent eye damage) towards any of receptors associated with operations at PMD. Some glare in the "green" ocular hazard range (low potential for after-image) was predicted towards 3 of the flight approach paths analyzed. There was no glare predicted towards the ATCT at PMD.

According to the results of the analysis, the two-mile approach path to runways 04, 07, and 072 at PMD could receive glare in the "green" ocular hazard range for approximately 5 minutes per day, on average. This glare is predicted to occur in the very early mornings when the sun is less than 1° above the horizon and is limited to the months of April through August.

The FAA has recently concluded that glare from photovoltaics is similar to the glare pilots routinely experience from water bodies, glass façade buildings, parking lots, and other like features (86 FR 25801–25803). At the times that glare is predicted towards receptors associated with PMD, the glare from the setting sun and the glare from the panels will be originating from the same general direction, as seen by the receptors. Because of this, and the fact that the intensity of the glare from the setting sun will be significantly higher than the glare from the project (ForgeSolar 2019), it is not anticipated that the project will adversely affect operations at PMD. The summarized results can be found in Table 5, Green Glare Results for Airport Receptors.

Table 5. Green Glare Results for Airport Receptors

Airport Receptor	Daily Average Minutes of Green Glare	Daily Maximum Minutes of Green Glare	Days Per Year With Green Glare
PMD04	4	6	93
PMD07	4	5	67
PMD072	4	5	79
PMD22	0	0	0
PMD25	0	0	0
PMD252	0	0	0
ATCT	0	0	0

4.3.2 Results for Ground-Based Receptors

The results of the analysis indicate that, under the proposed project parameters described in Section 4.1, Route04 will receive glare in the "green" (low potential for after image) and "yellow" (potential for after image) ocular hazard range. None of the other ground-based receptors analyzed were predicted to receive glare of any ocular hazard category.

According to the results of the analysis, Route04 which runs east-west adjacent to the project on the northern-most boundary, could receive glare in the "yellow" ocular hazard range for approximately 9 minutes per day, on average. This glare is predicted to occur in the very early mornings and late afternoons when the sun is approximately 1° above the horizon and will occur only during the fall and winter months. On average, 3 daily minutes of glare in the "green" ocular hazard range is predicted to occur at the same general time as the "yellow" glare. The durations stated above will be split approximately half-and-half between mornings and late afternoons.

At the times that glare is predicted towards motorists traveling along Route04, the glare from the setting sun and the glare from the panels will be originating from the same general direction, as seen by the receptors. Because of this, and the fact that the intensity of the glare from the setting sun will be significantly higher than the glare from the project (ForgeSolar 2019), it is not anticipated that the project will adversely affect motorists on Route04.

The summarized results can be found in Table 6, Green Glare Results for Route04, and Table 7, Yellow Glare Results for Route04, and the detailed modeling output can be found in Appendix A.

Table 6. Green Glare Results for Route04

Point and Route Receptors	Daily Average Minutes of Green Glare	Daily Maximum Minutes of Green Glare	Days Per Year With Green Glare
Route04	3	7	176

Table 7. Yellow Glare Results for Route04

Point and Route Receptors	Daily Average Minutes of Yellow Glare	Daily Maximum Minutes of Yellow Glare	Days Per Year With Yellow Glare
Route04	9	14	178

4.3.3 Comparison of Results to Other Sources of Glare

A majority of the glare predicted towards receptors will occur when the sun is less than 1° above the horizon, during sunrise and sunset. From the observer's point of view, this glare will be aligned with the setting/rising sun, similar to what would be seen over a lake or ocean during these times (Riley and Olson 2011).

Figure 4, Comparison of Results to Other Sources of Glare, illustrates that the glare produced by the project will not result in more ocular impact than a smooth water body under conservative assumptions (Riley and Olson 2011) and will result in far less impact than the hazards posed due to viewing the unfiltered sun (ForgeSolar 2019).

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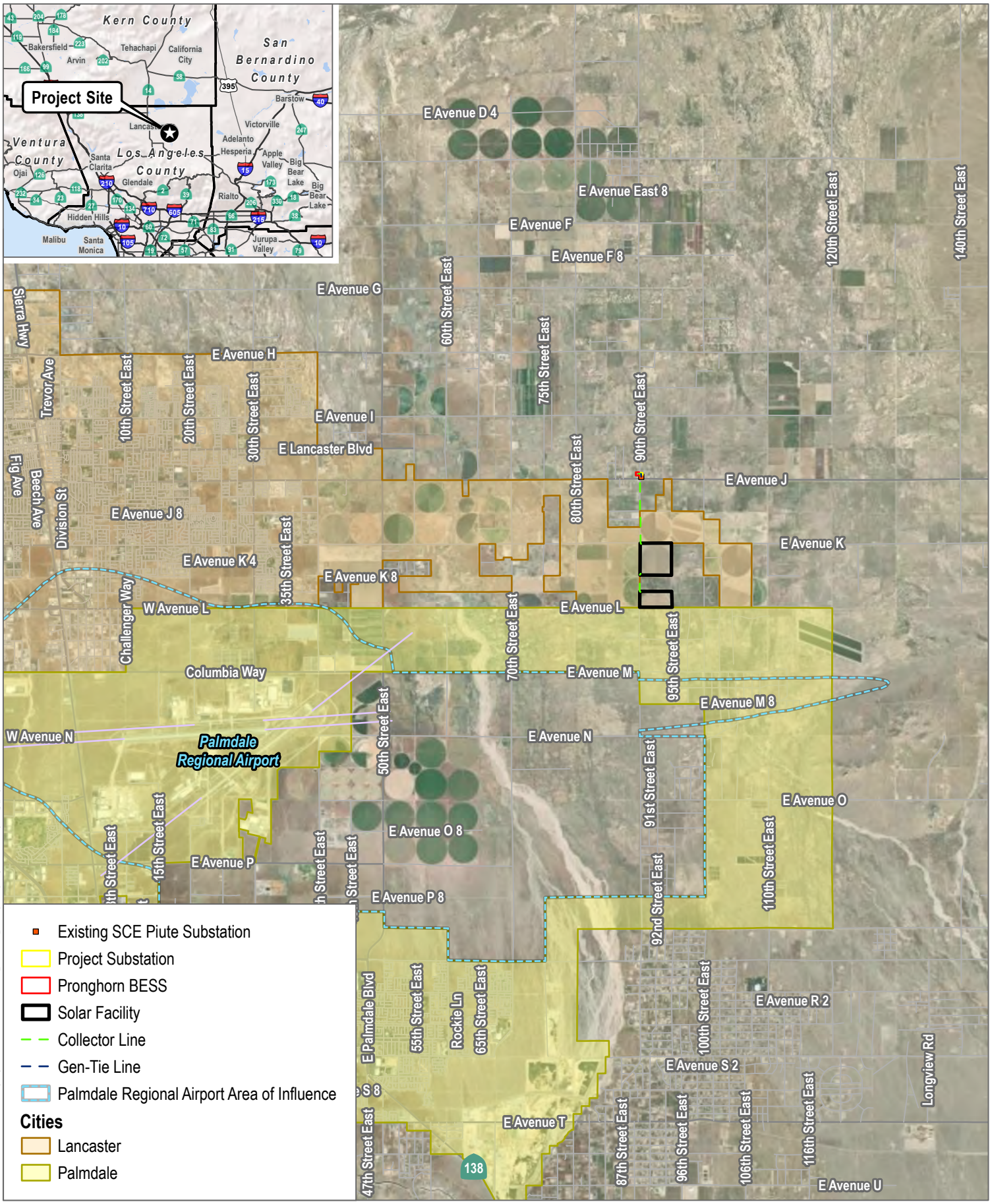
Riley, E., and S. Olson. 2011. "A Study of the Hazardous Glare Potential to Aviators from Utility-Scale Flat-Plate Photovoltaic Systems." *ISRN Renewable Energy* 2011, no. 651857. December 11, 2011. doi:10.5402/2011/651857.

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6 Document Preparers

This Glare Analysis Report was prepared by Christopher Starbird.

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SOURCE: Esri, OpenStreetMaps, County of Los Angeles

FIGURE 1

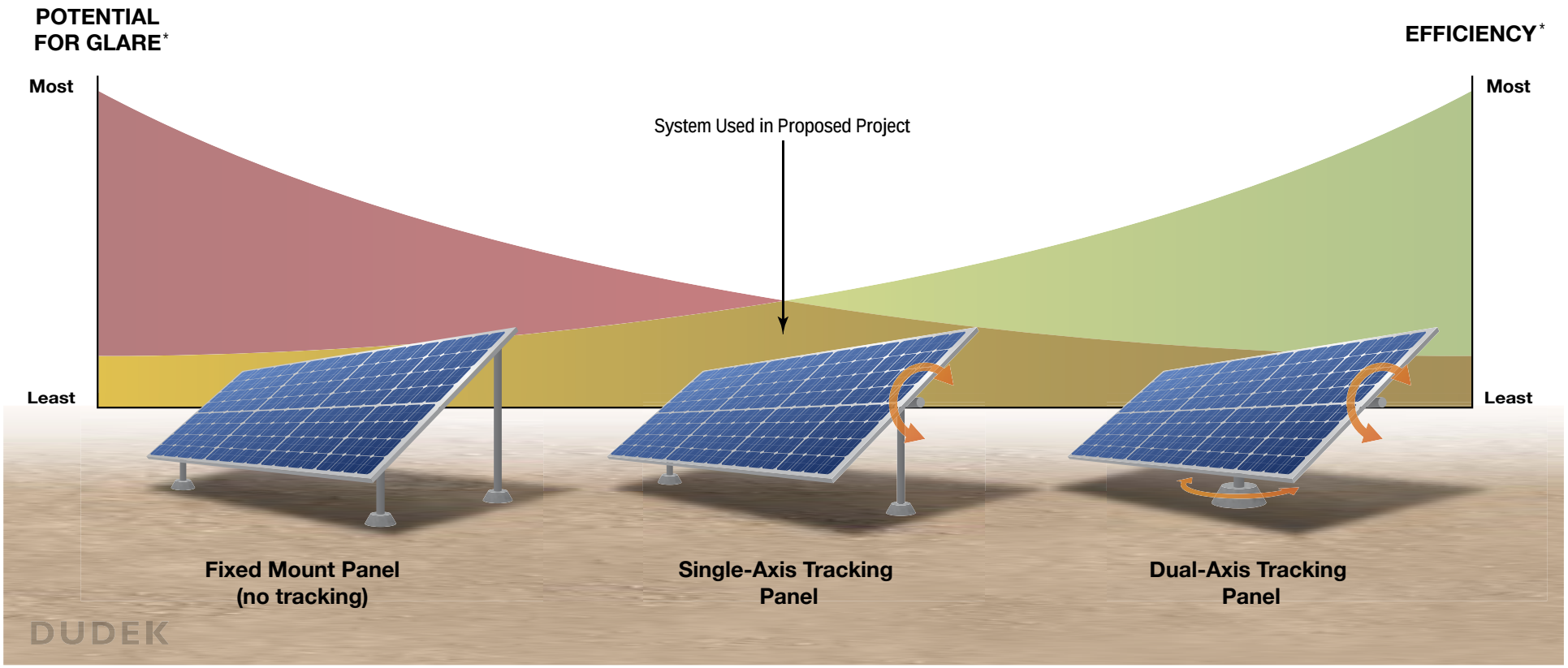
Project Location

Pronghorn Solar and Storage Project Glare Analysis Report

DUDEK

0 1 2 Miles

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** Efficiency and glare relationships represented in this graphic have been exaggerated and are for illustrative purposes only.*

SOURCE: DUDEK 2023

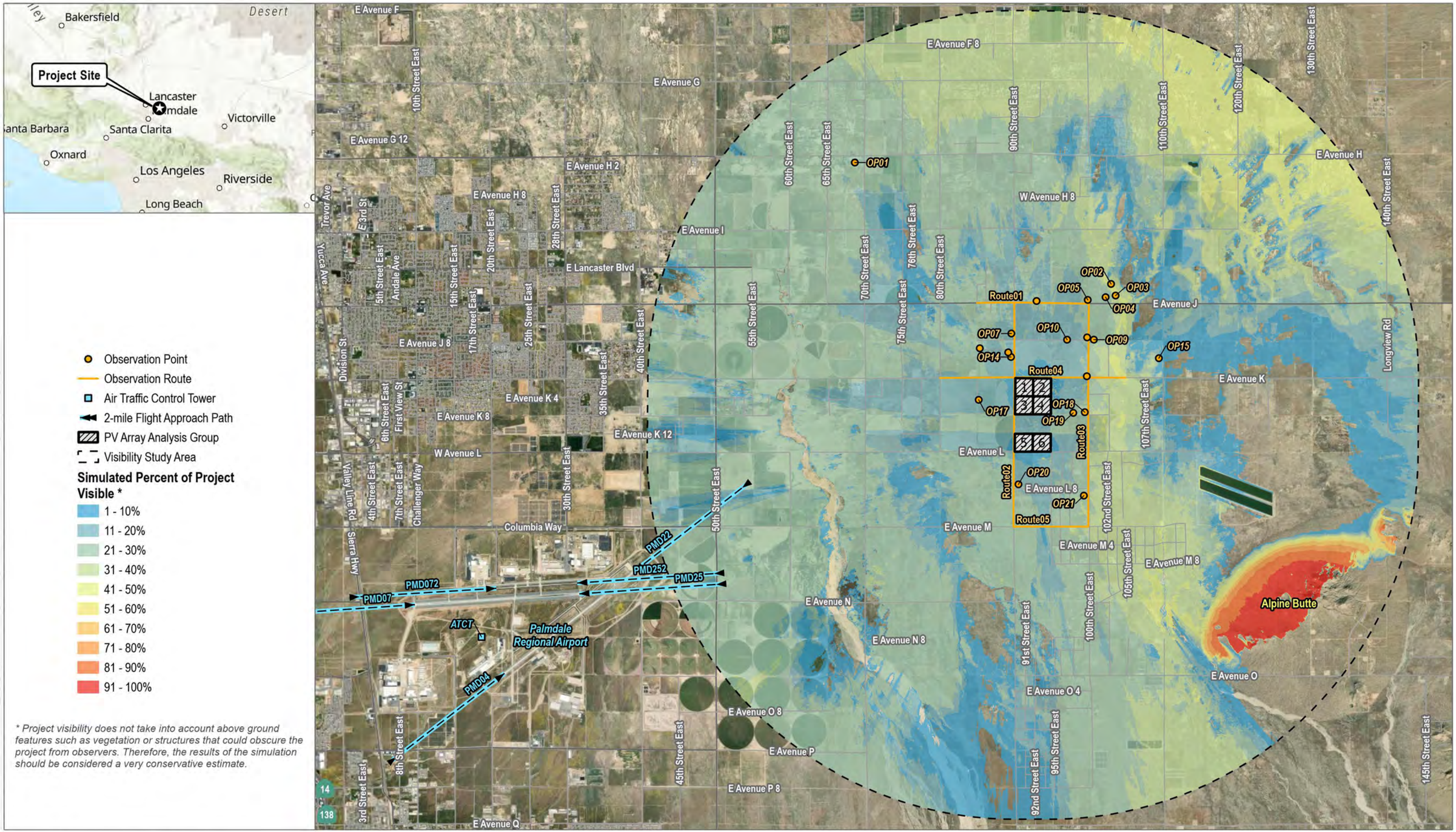
DUDEK

FIGURE 2

Comparison of Photovoltaic Tracking Systems

Pronghorn Solar and Storage Project Glare Analysis Report

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SOURCE: Esri, OpenStreetMap, Los Angeles County

DUDEK

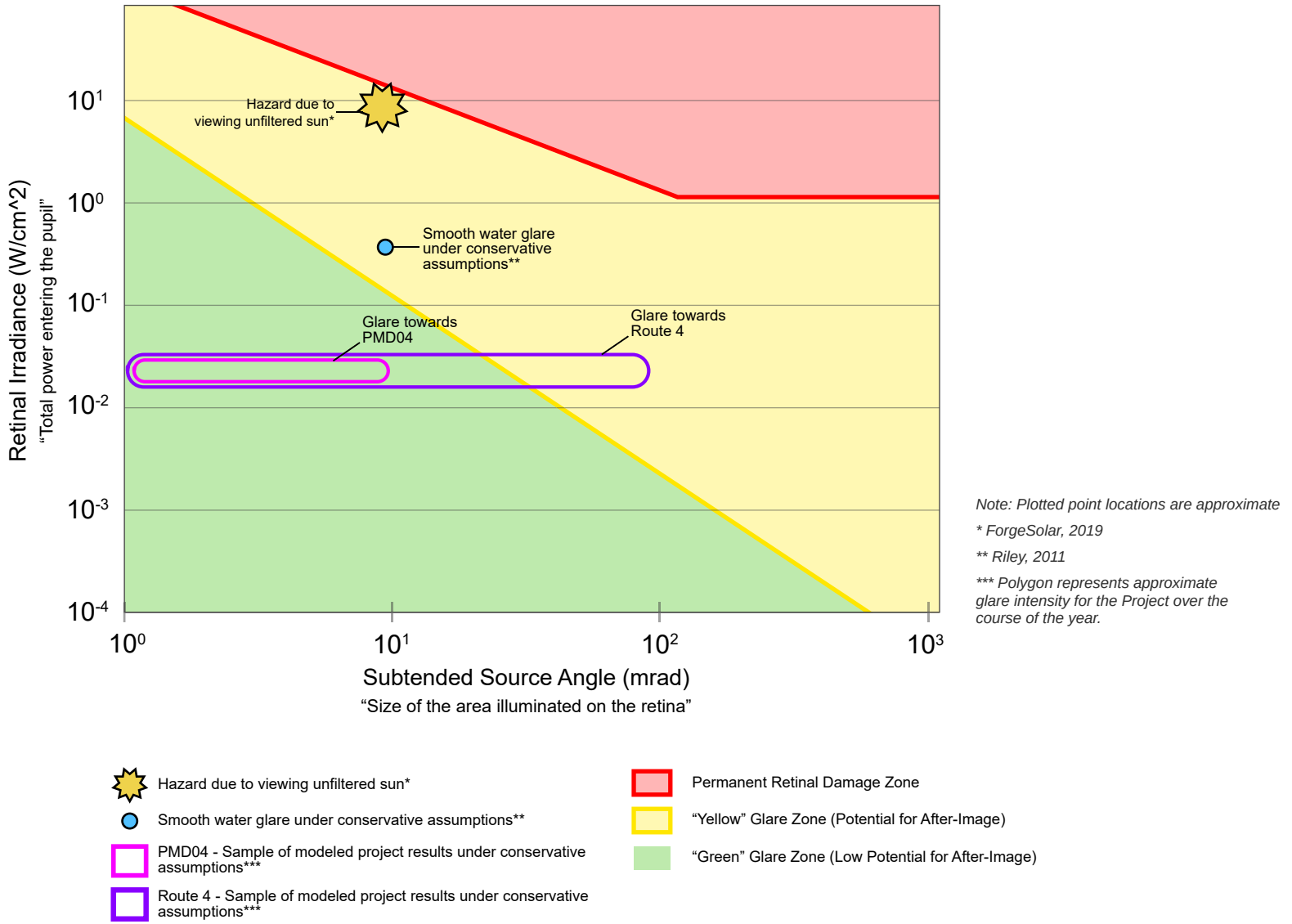
0 0.625 1.25 Miles

FIGURE 3

Receptor Locations

Pronghorn Solar and Storage Project Glare Analysis Report

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Note: Plotted point locations are approximate

** ForgeSolar, 2019*

*** Riley, 2011*

**** Polygon represents approximate glare intensity for the Project over the course of the year.*

SOURCE: DUDEK 2024

FIGURE 4

Comparison of Results to Other Sources of Glare

Pronghorn Solar and Storage Project Glare Analysis Report

DUDEK

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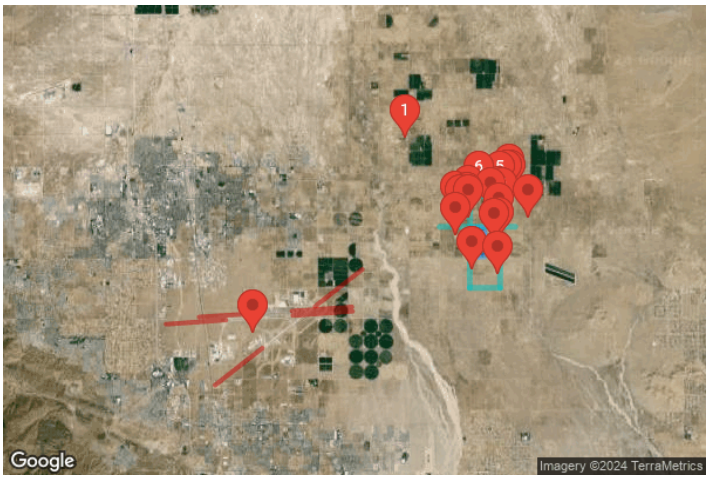
Appendix A
Detailed Modeling Results

FORGESOLAR GLARE ANALYSIS

Project: **Pronghorn Solar**
Site configuration: **Pronghorn Solar Group A Feb 2024**

Created 27 Feb, 2024
Updated 28 Feb, 2024
Time-step 1 minute
Timezone offset UTC-8
Minimum sun altitude 0.0 deg
DNI peaks at 1,000.0 W/m^2
Category 100 to 500 kW
Site ID 113160.19378

Ocular transmission coefficient 0.5
Pupil diameter 0.002 m
Eye focal length 0.017 m
Sun subtended angle 9.3 mrad
PV analysis methodology V2



Summary of Results

Glare with potential for temporary after-image predicted

PV Array	Tilt	Orient	Annual Green Glare		Annual Yellow Glare		Energy
	°	°	min	hr	min	hr	kWh
PV01	SA tracking	SA tracking	772	12.9	1,367	22.8	-
PV02	SA tracking	SA tracking	611	10.2	1,605	26.8	-
PV03	SA tracking	SA tracking	534	8.9	0	0.0	-
PV04	SA tracking	SA tracking	818	13.6	10	0.2	-
PV05	SA tracking	SA tracking	620	10.3	0	0.0	-
PV06	SA tracking	SA tracking	589	9.8	0	0.0	-

Total glare received by each receptor; may include duplicate times of glare from multiple reflective surfaces.

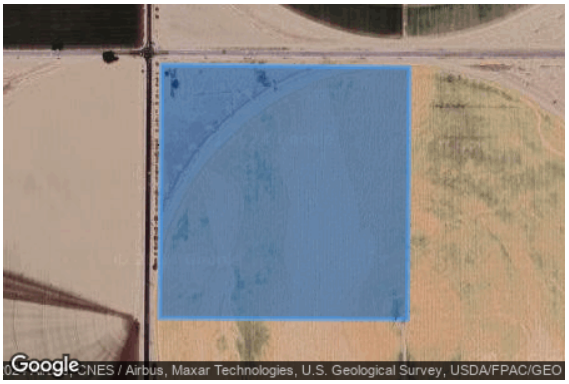
Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
Route01	0	0.0	0	0.0
Route02	0	0.0	0	0.0
Route03	0	0.0	0	0.0
Route04	637	10.6	2,982	49.7
Route05	0	0.0	0	0.0
PMD04	1,564	26.1	0	0.0

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
PMD07	826	13.8	0	0.0
PMD072	917	15.3	0	0.0
PMD22	0	0.0	0	0.0
PMD25	0	0.0	0	0.0
PMD252	0	0.0	0	0.0
OP 1	0	0.0	0	0.0
OP 2	0	0.0	0	0.0
OP 3	0	0.0	0	0.0
OP 4	0	0.0	0	0.0
OP 5	0	0.0	0	0.0
OP 6	0	0.0	0	0.0
OP 7	0	0.0	0	0.0
OP 8	0	0.0	0	0.0
OP 9	0	0.0	0	0.0
OP 10	0	0.0	0	0.0
OP 11	0	0.0	0	0.0
OP 12	0	0.0	0	0.0
OP 13	0	0.0	0	0.0
OP 14	0	0.0	0	0.0
OP 15	0	0.0	0	0.0
OP 16	0	0.0	0	0.0
OP 17	0	0.0	0	0.0
OP 18	0	0.0	0	0.0
OP 19	0	0.0	0	0.0
OP 20	0	0.0	0	0.0
OP 21	0	0.0	0	0.0
22-ATCT	0	0.0	0	0.0

Component Data

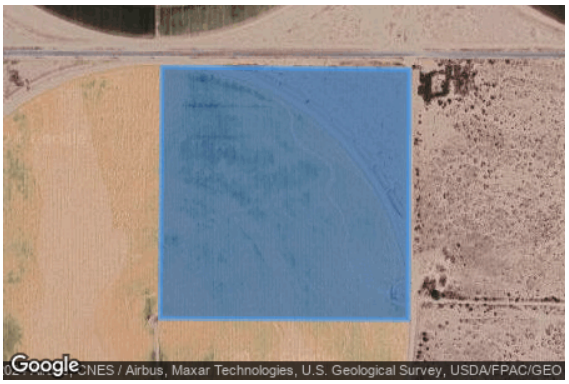
PV Arrays

Name: PV01
Axis tracking: Single-axis rotation
Backtracking: Shade
Tracking axis orientation: 180.0°
Max tracking angle: 60.0°
Resting angle: 0.0°
Ground Coverage Ratio: 0.5
Rated power: -
Panel material: Smooth glass without AR coating
Reflectivity: Vary with sun
Slope error: correlate with material



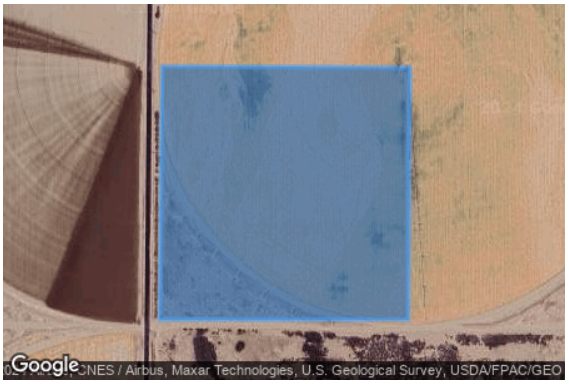
Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
1	34.671772	-117.965238	2486.95	5.00	2491.95
2	34.671792	-117.969499	2485.50	5.00	2490.50
3	34.675360	-117.969458	2478.55	5.00	2483.55
4	34.675323	-117.965206	2478.12	5.00	2483.12

Name: PV02
Axis tracking: Single-axis rotation
Backtracking: Shade
Tracking axis orientation: 180.0°
Max tracking angle: 60.0°
Resting angle: 0.0°
Ground Coverage Ratio: 0.5
Rated power: -
Panel material: Smooth glass without AR coating
Reflectivity: Vary with sun
Slope error: correlate with material



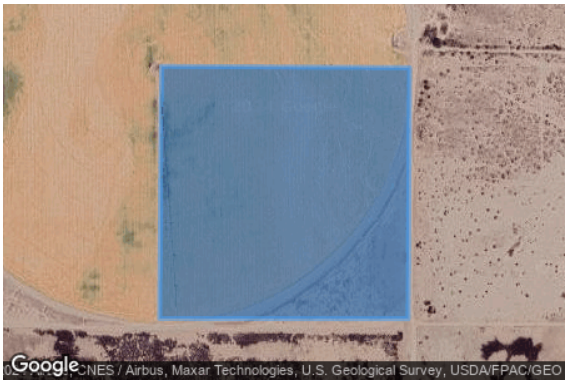
Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
1	34.671752	-117.960976	2488.03	5.00	2493.03
2	34.671772	-117.965238	2486.95	5.00	2491.95
3	34.675323	-117.965206	2478.12	5.00	2483.12
4	34.675287	-117.960954	2478.28	5.00	2483.28

Name: PV03
Axis tracking: Single-axis rotation
Backtracking: Shade
Tracking axis orientation: 180.0°
Max tracking angle: 60.0°
Resting angle: 0.0°
Ground Coverage Ratio: 0.5
Rated power: -
Panel material: Smooth glass without AR coating
Reflectivity: Vary with sun
Slope error: correlate with material



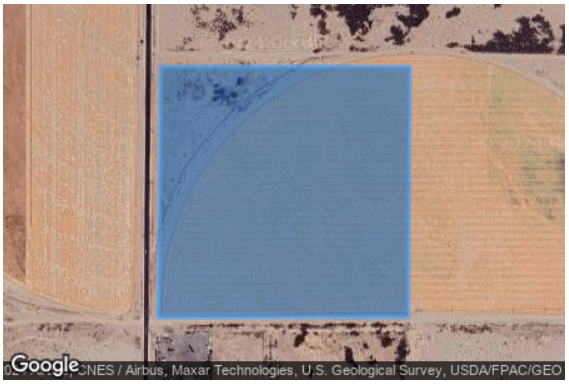
Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
1	34.671772	-117.965238	2486.95	5.00	2491.95
2	34.668221	-117.965271	2493.68	5.00	2498.68
3	34.668224	-117.969541	2492.70	5.00	2497.70
4	34.671792	-117.969499	2485.50	5.00	2490.50

Name: PV04
Axis tracking: Single-axis rotation
Backtracking: Shade
Tracking axis orientation: 180.0°
Max tracking angle: 60.0°
Resting angle: 0.0°
Ground Coverage Ratio: 0.5
Rated power: -
Panel material: Smooth glass without AR coating
Reflectivity: Vary with sun
Slope error: correlate with material



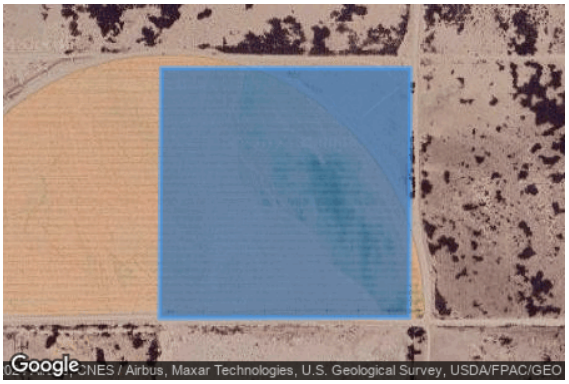
Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
1	34.671752	-117.960976	2488.03	5.00	2493.03
2	34.668218	-117.961000	2493.91	5.00	2498.91
3	34.668221	-117.965271	2493.68	5.00	2498.68
4	34.671772	-117.965238	2486.95	5.00	2491.95

Name: PV05
Axis tracking: Single-axis rotation
Backtracking: Shade
Tracking axis orientation: 180.0°
Max tracking angle: 60.0°
Resting angle: 0.0°
Ground Coverage Ratio: 0.5
Rated power: -
Panel material: Smooth glass without AR coating
Reflectivity: Vary with sun
Slope error: correlate with material



Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
1	34.660849	-117.965337	2505.86	5.00	2510.86
2	34.660844	-117.969626	2501.35	5.00	2506.35
3	34.664370	-117.969585	2497.35	5.00	2502.35
4	34.664370	-117.965305	2501.26	5.00	2506.26

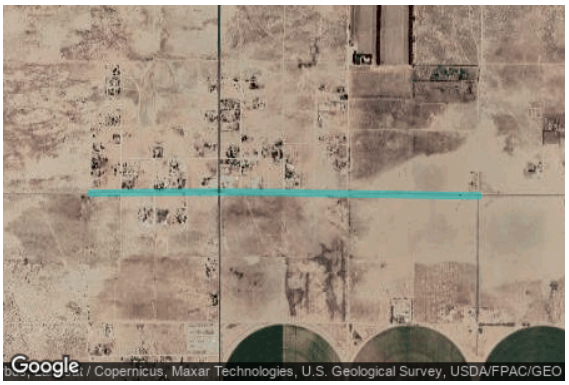
Name: PV06
Axis tracking: Single-axis rotation
Backtracking: Shade
Tracking axis orientation: 180.0°
Max tracking angle: 60.0°
Resting angle: 0.0°
Ground Coverage Ratio: 0.5
Rated power: -
Panel material: Smooth glass without AR coating
Reflectivity: Vary with sun
Slope error: correlate with material



Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
1	34.660849	-117.965337	2505.86	5.00	2510.86
2	34.664370	-117.965305	2501.26	5.00	2506.26
3	34.664370	-117.961025	2502.83	5.00	2507.83
4	34.660857	-117.961048	2508.78	5.00	2513.78

Route Receptors

Name: Route01
Path type: Two-way
Observer view angle: 50.0°



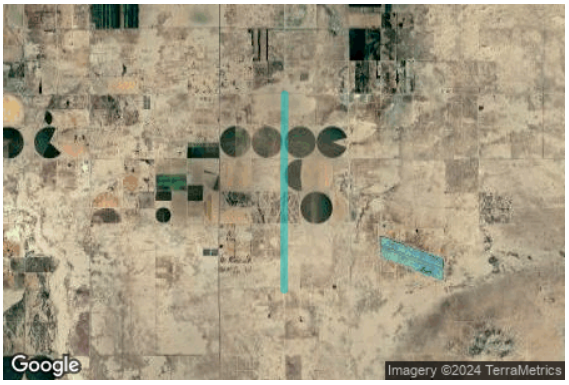
Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
1	34.690203	-117.978573	2441.12	7.60	2448.72
2	34.690227	-117.976393	2441.32	7.60	2448.92
3	34.690262	-117.973794	2442.49	7.60	2450.09
4	34.690262	-117.971917	2443.62	7.60	2451.22
5	34.690262	-117.969724	2444.42	7.60	2452.02
6	34.690261	-117.967831	2446.90	7.60	2454.50
7	34.690236	-117.965289	2450.41	7.60	2458.01
8	34.690188	-117.962878	2450.03	7.60	2457.63
9	34.690163	-117.960756	2448.79	7.60	2456.39
10	34.690138	-117.957984	2448.80	7.60	2456.40
11	34.690110	-117.956385	2450.03	7.60	2457.63
12	34.690073	-117.953974	2450.21	7.60	2457.81
13	34.690061	-117.951938	2449.90	7.60	2457.50

Name: Route02
Path type: Two-way
Observer view angle: 50.0°



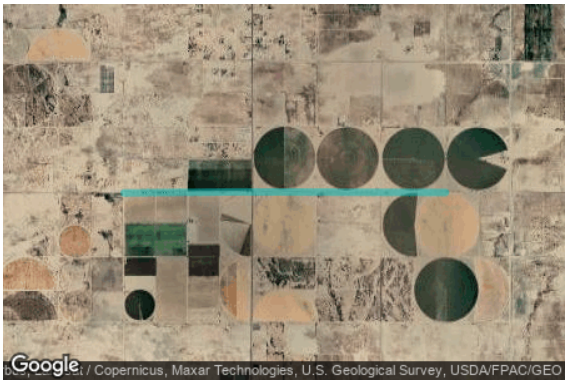
Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
1	34.690262	-117.969724	2444.42	7.60	2452.02
2	34.688668	-117.969724	2448.04	7.60	2455.64
3	34.686483	-117.969690	2452.71	7.60	2460.31
4	34.684480	-117.969691	2454.93	7.60	2462.53
5	34.682677	-117.969703	2458.36	7.60	2465.96
6	34.679108	-117.969681	2472.55	7.60	2480.15
7	34.676418	-117.969659	2475.17	7.60	2482.77
8	34.673937	-117.969695	2479.80	7.60	2487.40
9	34.670999	-117.969719	2485.58	7.60	2493.18
10	34.668232	-117.969766	2491.35	7.60	2498.95
11	34.665589	-117.969779	2495.74	7.60	2503.34
12	34.661152	-117.969850	2500.55	7.60	2508.15
13	34.657126	-117.969863	2510.02	7.60	2517.62
14	34.653443	-117.969887	2514.89	7.60	2522.49
15	34.648453	-117.969900	2524.26	7.60	2531.86
16	34.646040	-117.969913	2528.08	7.60	2535.68

Name: Route03
Path type: Two-way
Observer view angle: 50.0°



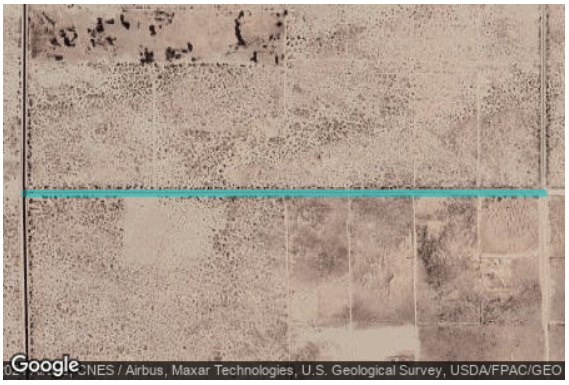
Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
1	34.646052	-117.952076	2542.29	7.60	2549.89
2	34.647112	-117.952080	2539.93	7.60	2547.53
3	34.648600	-117.952068	2538.20	7.60	2545.80
4	34.650499	-117.952090	2533.60	7.60	2541.20
5	34.652550	-117.952077	2529.42	7.60	2537.02
6	34.654191	-117.952065	2525.39	7.60	2532.99
7	34.656920	-117.952063	2520.94	7.60	2528.54
8	34.659544	-117.952085	2517.52	7.60	2525.12
9	34.660854	-117.952067	2514.49	7.60	2522.09
10	34.662252	-117.952066	2509.87	7.60	2517.47
11	34.664509	-117.952062	2504.62	7.60	2512.22
12	34.666090	-117.952078	2502.01	7.60	2509.61
13	34.668094	-117.952077	2498.53	7.60	2506.13
14	34.669869	-117.952059	2494.60	7.60	2502.20
15	34.671510	-117.952093	2490.45	7.60	2498.05
16	34.672827	-117.952092	2486.46	7.60	2494.06
17	34.675460	-117.952056	2481.70	7.60	2489.30
18	34.677809	-117.952035	2475.32	7.60	2482.92
19	34.680409	-117.952019	2470.56	7.60	2478.16
20	34.682699	-117.951996	2466.57	7.60	2474.17
21	34.684279	-117.951973	2464.37	7.60	2471.97
22	34.686378	-117.951965	2458.42	7.60	2466.02
23	34.688012	-117.951942	2453.88	7.60	2461.48
24	34.690061	-117.951938	2449.90	7.60	2457.50

Name: Route04
Path type: Two-way
Observer view angle: 50.0°



Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
1	34.675395	-117.987426	2457.23	7.60	2464.83
2	34.675419	-117.984163	2462.14	7.60	2469.74
3	34.675454	-117.979832	2469.49	7.60	2477.09
4	34.675465	-117.977783	2473.40	7.60	2481.00
5	34.675489	-117.974794	2474.35	7.60	2481.95
6	34.675512	-117.971893	2475.01	7.60	2482.61
7	34.675499	-117.968774	2477.95	7.60	2485.55
8	34.675498	-117.965252	2477.80	7.60	2485.40
9	34.675472	-117.958958	2479.68	7.60	2487.28
10	34.675471	-117.954209	2479.10	7.60	2486.70
11	34.675460	-117.952056	2481.70	7.60	2489.30
12	34.675445	-117.949185	2486.01	7.60	2493.61
13	34.675455	-117.947884	2486.62	7.60	2494.22
14	34.675435	-117.945470	2487.31	7.60	2494.91
15	34.675444	-117.943241	2490.63	7.60	2498.23

Name: Route05
Path type: Two-way
Observer view angle: 50.0°



Vertex	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
1	34.646040	-117.969913	2528.08	7.60	2535.68
2	34.646049	-117.966475	2531.39	7.60	2538.99
3	34.646048	-117.963246	2533.18	7.60	2540.78
4	34.646054	-117.957055	2539.58	7.60	2547.18
5	34.646052	-117.952076	2542.29	7.60	2549.89

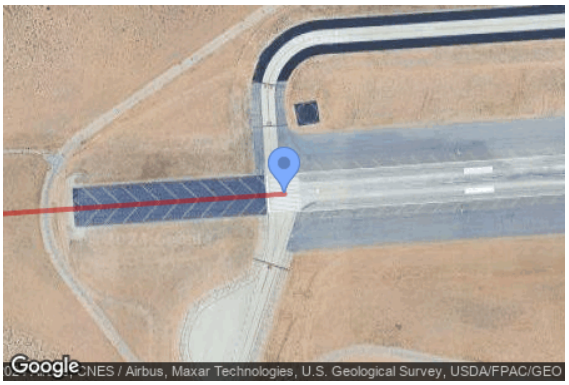
Flight Path Receptors

Name: PMD04
Description: None
Threshold height: 75 ft
Direction: 52.0°
Glide slope: 3.0°
Pilot view restricted? Yes
Vertical view: 30.0°
Azimuthal view: 50.0°



Point	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
Threshold	34.617067	-118.091401	2542.10	75.00	2617.10
Two-mile	34.599267	-118.119118	2615.20	555.30	3170.50

Name: PMD07
Description: None
Threshold height: 78 ft
Direction: 86.0°
Glide slope: 3.0°
Pilot view restricted? Yes
Vertical view: 30.0°
Azimuthal view: 50.0°



Point	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
Threshold	34.630606	-118.112791	2545.50	78.00	2623.50
Two-mile	34.628589	-118.147884	2594.10	582.90	3177.00

Name: PMD072
Description: None
Threshold height: 50 ft
Direction: 86.4°
Glide slope: 3.0°
Pilot view restricted? Yes
Vertical view: 30.0°
Azimuthal view: 50.0°



Point	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
Threshold	34.633847	-118.093390	2511.00	50.00	2561.00
Two-mile	34.632027	-118.128501	2572.30	542.10	3114.40

Name: PMD22
Description: None
Threshold height: 75 ft
Direction: 232.0°
Glide slope: 3.0°
Pilot view restricted? Yes
Vertical view: 30.0°
Azimuthal view: 50.0°



Point	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
Threshold	34.637122	-118.060567	2489.00	75.00	2564.00
Two-mile	34.654922	-118.032844	2468.60	648.80	3117.40

Name: PMD25
Description: None
Threshold height: 76 ft
Direction: 266.0°
Glide slope: 3.0°
Pilot view restricted? Yes
Vertical view: 30.0°
Azimuthal view: 50.0°



Point	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
Threshold	34.632759	-118.073601	2495.70	76.00	2571.70
Two-mile	34.634775	-118.038507	2498.50	626.60	3125.10

Name: PMD252
Description: None
Threshold height: 50 ft
Direction: 266.0°
Glide slope: 3.0°
Pilot view restricted? Yes
Vertical view: 30.0°
Azimuthal view: 50.0°

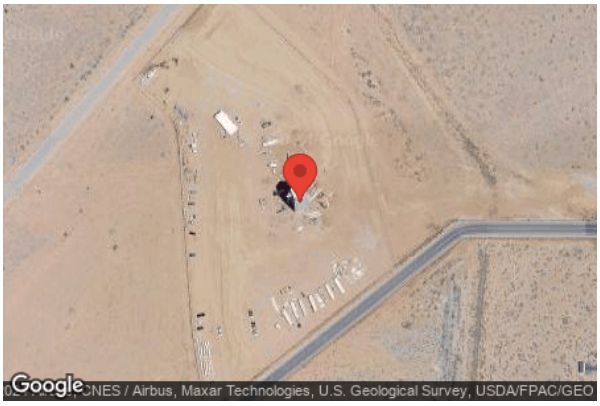


Point	Latitude (°)	Longitude (°)	Ground elevation (ft)	Height above ground (ft)	Total elevation (ft)
Threshold	34.634903	-118.074098	2494.40	50.00	2544.40
Two-mile	34.636920	-118.039003	2492.40	605.40	3097.80

Discrete Observation Point Receptors

Name	ID	Latitude (°)	Longitude (°)	Elevation (ft)	Height (ft)
OP 1	1	34.717906	-118.007744	2381.12	5.50
OP 2	2	34.693937	-117.946633	2453.47	5.50
OP 3	3	34.691651	-117.945545	2459.28	5.50
OP 4	4	34.691326	-117.947938	2452.19	5.50
OP 5	5	34.690789	-117.952192	2450.09	5.50
OP 6	6	34.690580	-117.964403	2449.68	5.50
OP 7	7	34.684170	-117.970414	2454.21	5.50
OP 8	8	34.683390	-117.952347	2467.35	5.50
OP 9	9	34.682946	-117.950747	2467.99	5.50
OP 10	10	34.682941	-117.957126	2463.68	5.50
OP 11	11	34.681254	-117.977947	2460.34	5.50
OP 12	12	34.680440	-117.971161	2467.47	5.50
OP 13	13	34.679598	-117.975407	2467.41	5.50
OP 14	14	34.679537	-117.970498	2472.23	5.50
OP 15	15	34.679281	-117.935242	2479.72	5.50
OP 16	16	34.675724	-117.952417	2480.84	5.50
OP 17	17	34.671081	-117.978207	2477.84	5.50
OP 18	18	34.668632	-117.952909	2496.94	5.50
OP 19	19	34.668501	-117.955657	2495.59	5.50
OP 20	20	34.654405	-117.968728	2514.50	5.50
OP 21	21	34.652167	-117.953143	2529.16	5.50
22-ATCT	22	34.624243	-118.096909	2527.58	150.00

Map image of 22-ATCT



Glare Analysis Results

Summary of Results

Glare with potential for temporary after-image predicted

PV Array	Tilt	Orient	Annual Green Glare		Annual Yellow Glare		Energy
	°	°	min	hr	min	hr	kWh
PV01	SA tracking	SA tracking	772	12.9	1,367	22.8	-
PV02	SA tracking	SA tracking	611	10.2	1,605	26.8	-
PV03	SA tracking	SA tracking	534	8.9	0	0.0	-
PV04	SA tracking	SA tracking	818	13.6	10	0.2	-
PV05	SA tracking	SA tracking	620	10.3	0	0.0	-
PV06	SA tracking	SA tracking	589	9.8	0	0.0	-

Total glare received by each receptor; may include duplicate times of glare from multiple reflective surfaces.

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
Route01	0	0.0	0	0.0
Route02	0	0.0	0	0.0
Route03	0	0.0	0	0.0
Route04	637	10.6	2,982	49.7
Route05	0	0.0	0	0.0
PMD04	1,564	26.1	0	0.0
PMD07	826	13.8	0	0.0
PMD072	917	15.3	0	0.0
PMD22	0	0.0	0	0.0
PMD25	0	0.0	0	0.0
PMD252	0	0.0	0	0.0
OP 1	0	0.0	0	0.0
OP 2	0	0.0	0	0.0
OP 3	0	0.0	0	0.0
OP 4	0	0.0	0	0.0
OP 5	0	0.0	0	0.0
OP 6	0	0.0	0	0.0
OP 7	0	0.0	0	0.0
OP 8	0	0.0	0	0.0
OP 9	0	0.0	0	0.0
OP 10	0	0.0	0	0.0
OP 11	0	0.0	0	0.0

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
OP 12	0	0.0	0	0.0
OP 13	0	0.0	0	0.0
OP 14	0	0.0	0	0.0
OP 15	0	0.0	0	0.0
OP 16	0	0.0	0	0.0
OP 17	0	0.0	0	0.0
OP 18	0	0.0	0	0.0
OP 19	0	0.0	0	0.0
OP 20	0	0.0	0	0.0
OP 21	0	0.0	0	0.0
22-ATCT	0	0.0	0	0.0

PV: PV01 potential temporary after-image

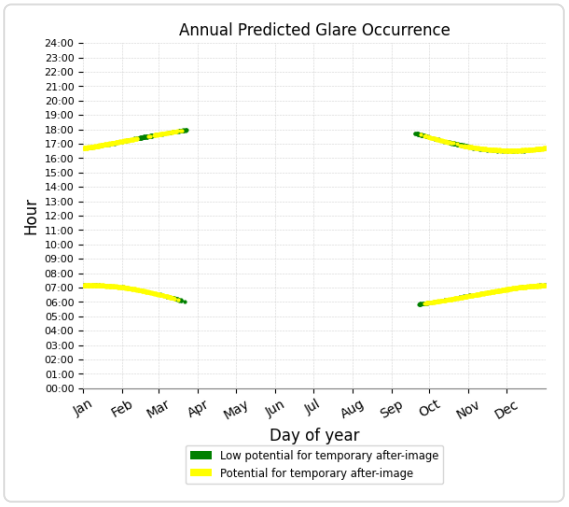
Receptor results ordered by category of glare

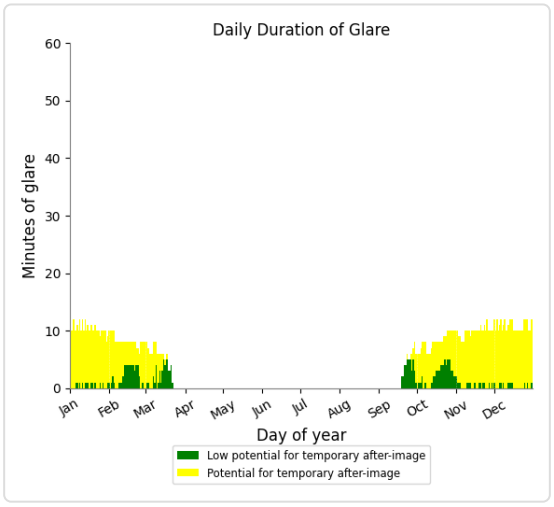
Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
Route04	266	4.4	1,367	22.8
Route01	0	0.0	0	0.0
Route02	0	0.0	0	0.0
Route03	0	0.0	0	0.0
Route05	0	0.0	0	0.0
PMD04	161	2.7	0	0.0
PMD07	154	2.6	0	0.0
PMD072	191	3.2	0	0.0
PMD22	0	0.0	0	0.0
PMD25	0	0.0	0	0.0
PMD252	0	0.0	0	0.0
OP 1	0	0.0	0	0.0
OP 2	0	0.0	0	0.0
OP 3	0	0.0	0	0.0
OP 4	0	0.0	0	0.0
OP 5	0	0.0	0	0.0
OP 6	0	0.0	0	0.0
OP 7	0	0.0	0	0.0
OP 8	0	0.0	0	0.0
OP 9	0	0.0	0	0.0
OP 10	0	0.0	0	0.0
OP 11	0	0.0	0	0.0
OP 12	0	0.0	0	0.0
OP 13	0	0.0	0	0.0
OP 14	0	0.0	0	0.0
OP 15	0	0.0	0	0.0
OP 16	0	0.0	0	0.0
OP 17	0	0.0	0	0.0
OP 18	0	0.0	0	0.0
OP 19	0	0.0	0	0.0
OP 20	0	0.0	0	0.0
OP 21	0	0.0	0	0.0
22-ATCT	0	0.0	0	0.0

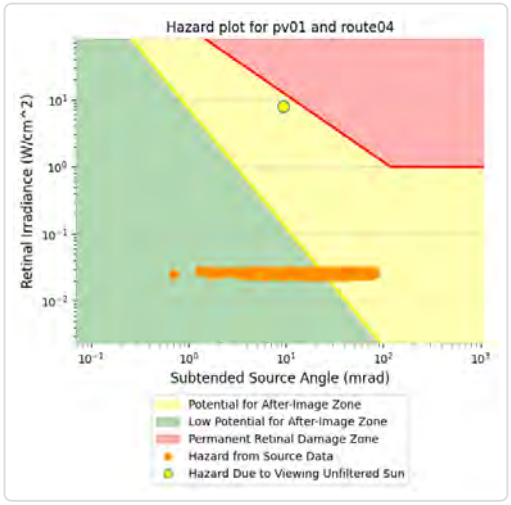
PV01 and Route: Route04

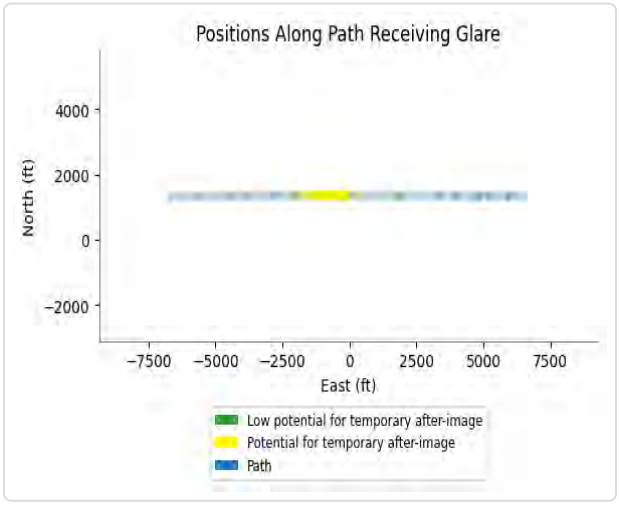
Yellow glare: 1,367 min.

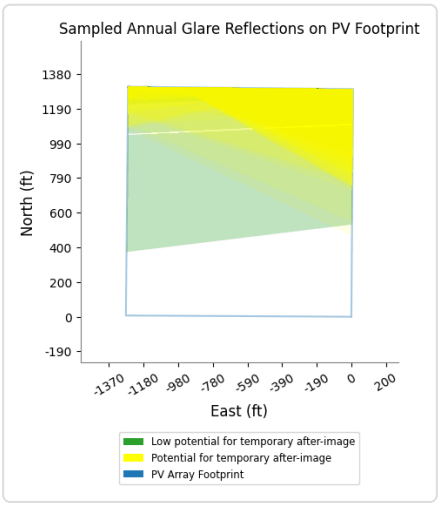
Green glare: 266 min.











PV01 and Route: Route01

No glare found

PV01 and Route: Route02

No glare found

PV01 and Route: Route03

No glare found

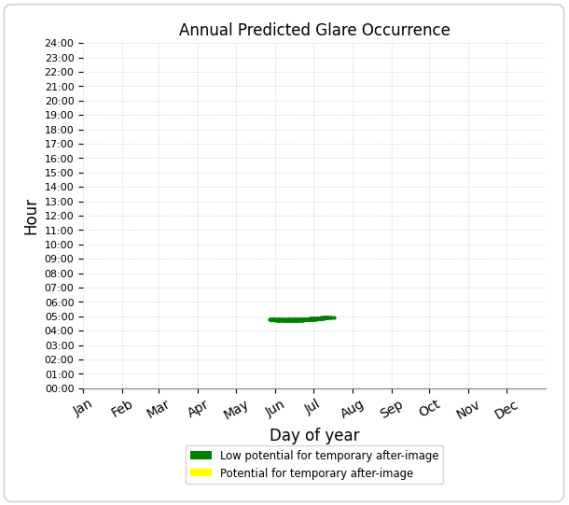
PV01 and Route: Route05

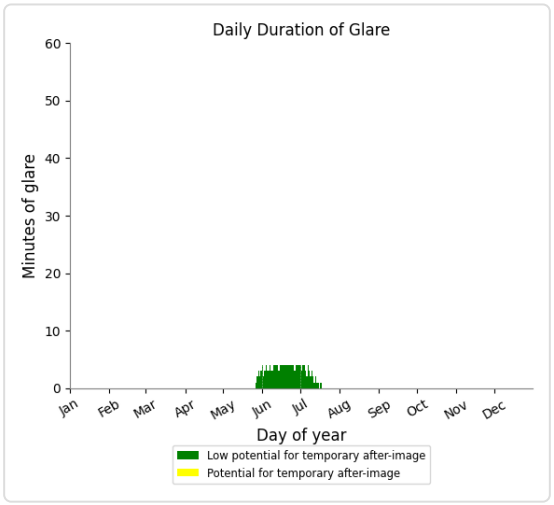
No glare found

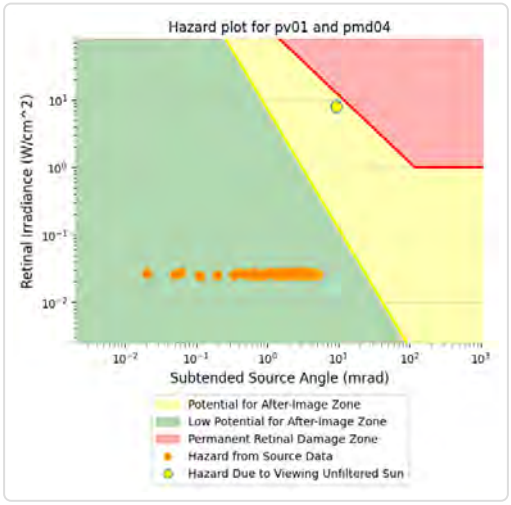
PV01 and FP: PMD04

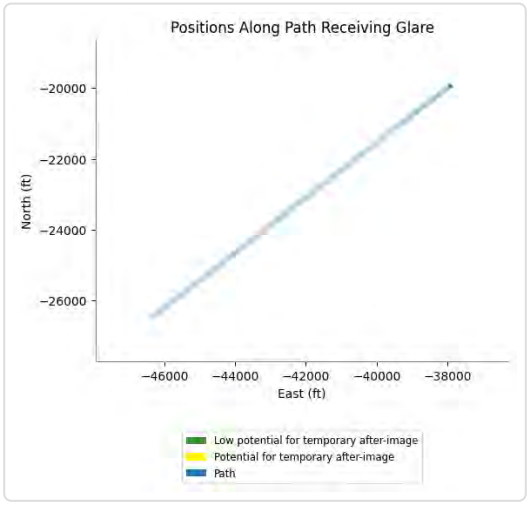
Yellow glare: none

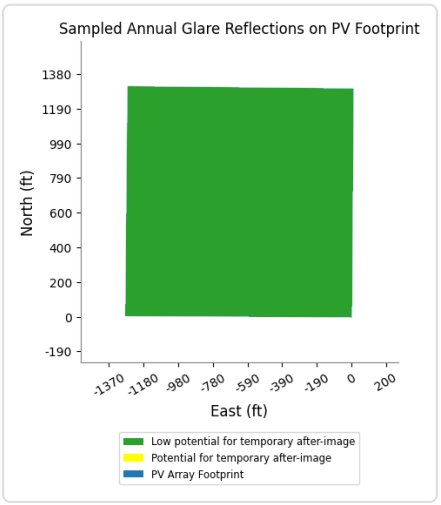
Green glare: 161 min.

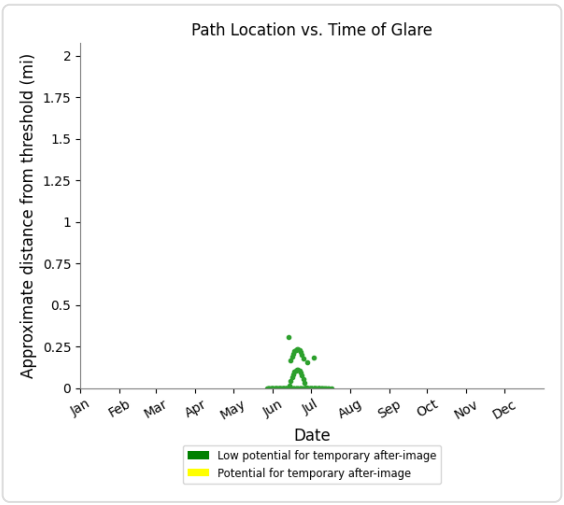








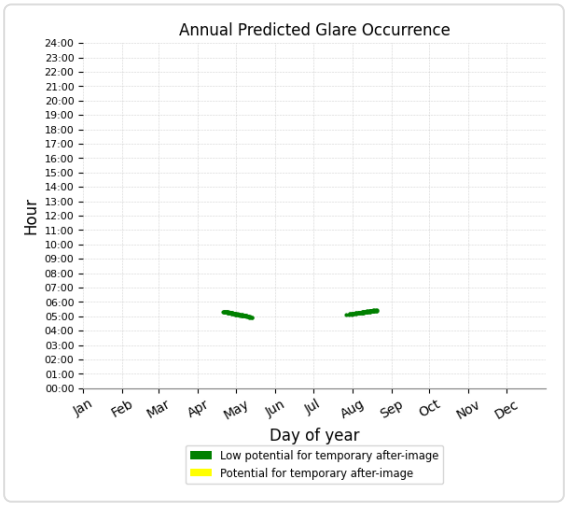


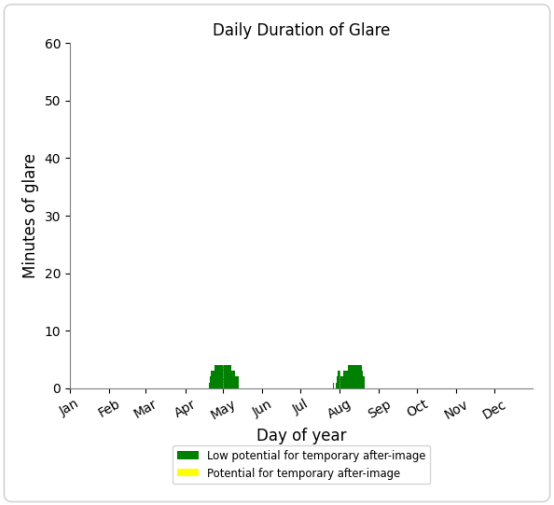


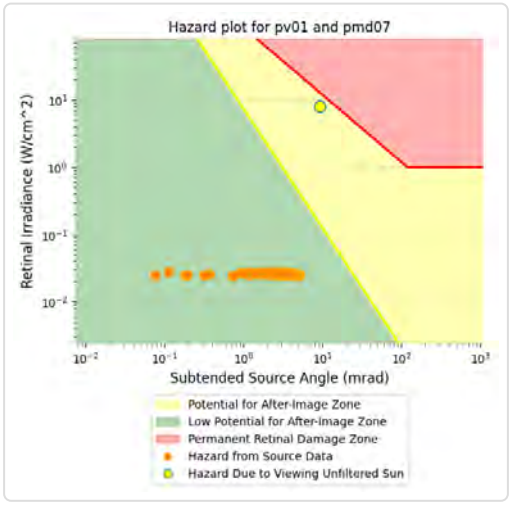
PV01 and FP: PMD07

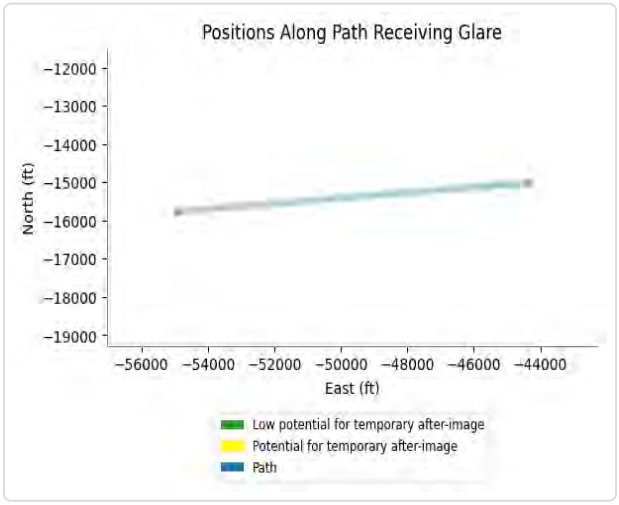
Yellow glare: none

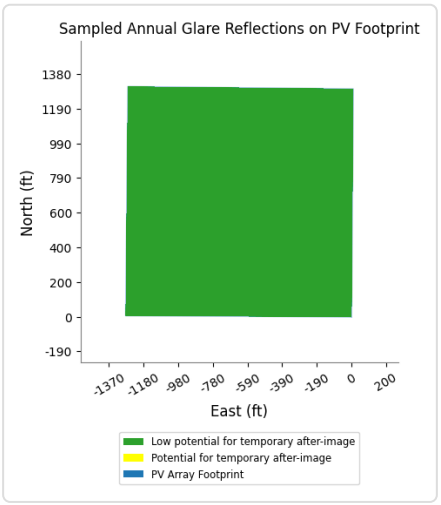
Green glare: 154 min.

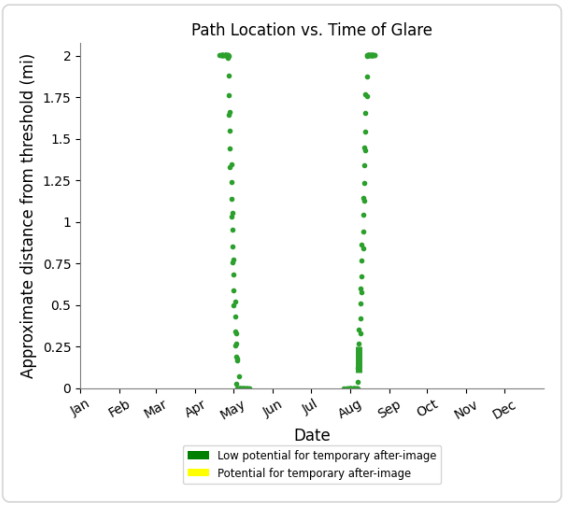








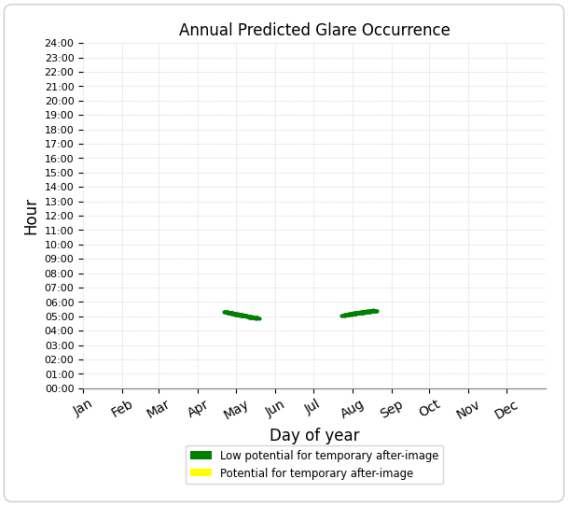


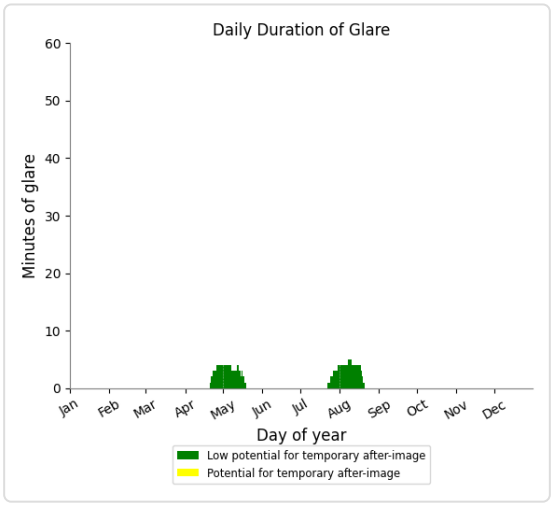


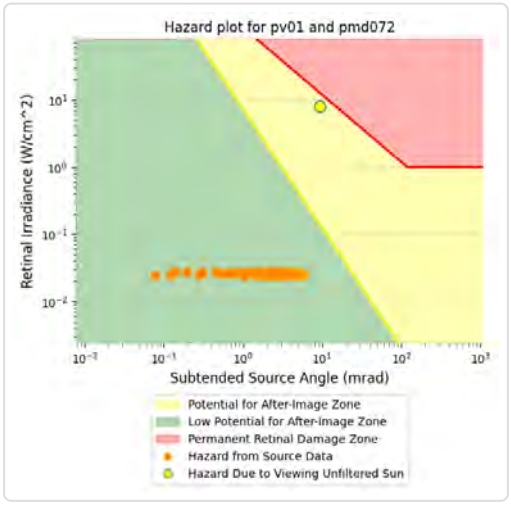
PV01 and FP: PMD072

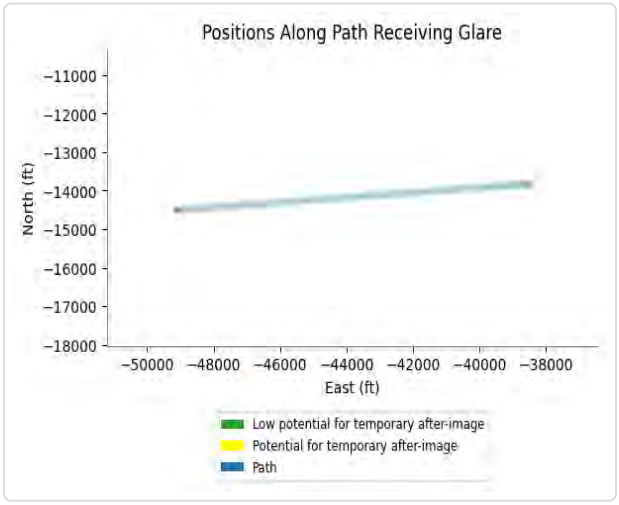
Yellow glare: none

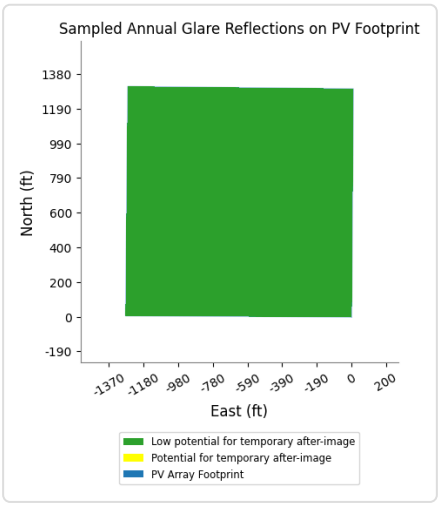
Green glare: 191 min.

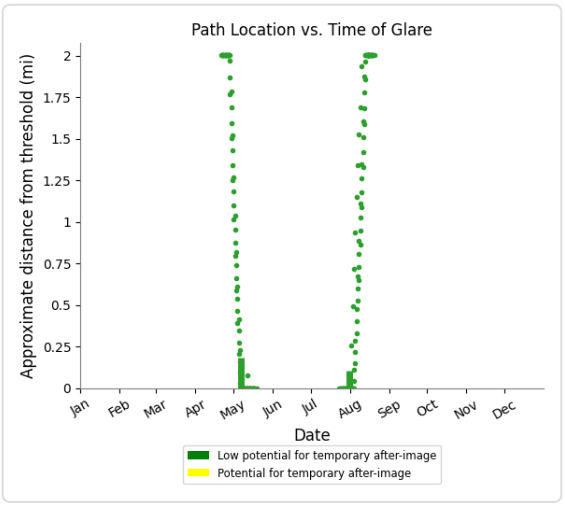












PV01 and FP: PMD22

No glare found

PV01 and FP: PMD25

No glare found

PV01 and FP: PMD252

No glare found

PV01 and OP 1

No glare found

PV01 and OP 2

No glare found

PV01 and OP 3

No glare found

PV01 and OP 4

No glare found

PV01 and OP 5

No glare found

PV01 and OP 6

No glare found

PV01 and OP 7

No glare found

PV01 and OP 8

No glare found

PV01 and OP 9

No glare found

PV01 and OP 10

No glare found

PV01 and OP 11

No glare found

PV01 and OP 12

No glare found

PV01 and OP 13

No glare found

PV01 and OP 14

No glare found

PV01 and OP 15

No glare found

PV01 and OP 16

No glare found

PV01 and OP 17

No glare found

PV01 and OP 18

No glare found

PV01 and OP 19

No glare found

PV01 and OP 20

No glare found

PV01 and OP 21

No glare found

PV01 and 22-ATCT

No glare found

PV: PV02 potential temporary after-image

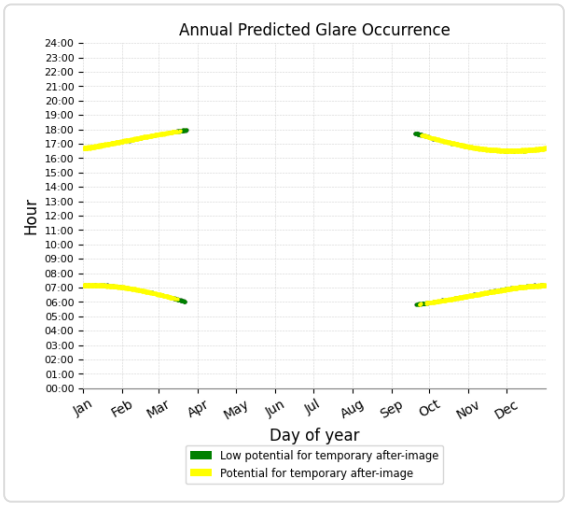
Receptor results ordered by category of glare

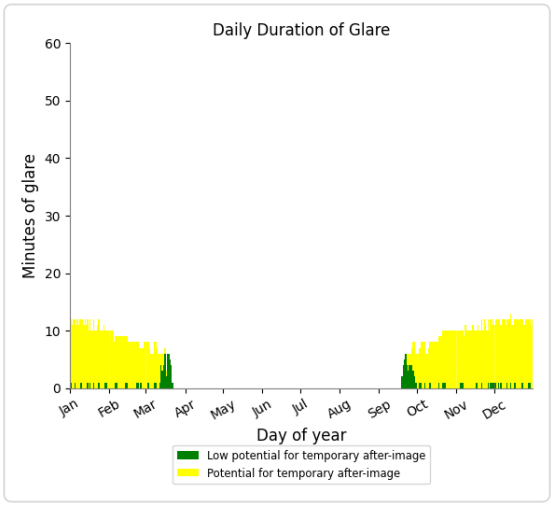
Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
Route04	130	2.2	1,605	26.8
Route01	0	0.0	0	0.0
Route02	0	0.0	0	0.0
Route03	0	0.0	0	0.0
Route05	0	0.0	0	0.0
PMD04	201	3.4	0	0.0
PMD07	139	2.3	0	0.0
PMD072	141	2.4	0	0.0
PMD22	0	0.0	0	0.0
PMD25	0	0.0	0	0.0
PMD252	0	0.0	0	0.0
OP 1	0	0.0	0	0.0
OP 2	0	0.0	0	0.0
OP 3	0	0.0	0	0.0
OP 4	0	0.0	0	0.0
OP 5	0	0.0	0	0.0
OP 6	0	0.0	0	0.0
OP 7	0	0.0	0	0.0
OP 8	0	0.0	0	0.0
OP 9	0	0.0	0	0.0
OP 10	0	0.0	0	0.0
OP 11	0	0.0	0	0.0
OP 12	0	0.0	0	0.0
OP 13	0	0.0	0	0.0
OP 14	0	0.0	0	0.0
OP 15	0	0.0	0	0.0
OP 16	0	0.0	0	0.0
OP 17	0	0.0	0	0.0
OP 18	0	0.0	0	0.0
OP 19	0	0.0	0	0.0
OP 20	0	0.0	0	0.0
OP 21	0	0.0	0	0.0
22-ATCT	0	0.0	0	0.0

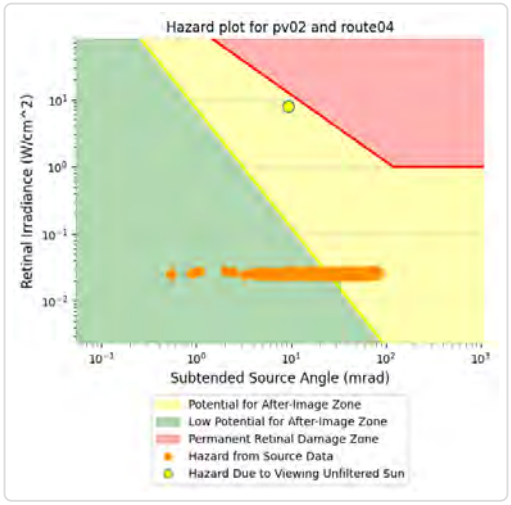
PV02 and Route: Route04

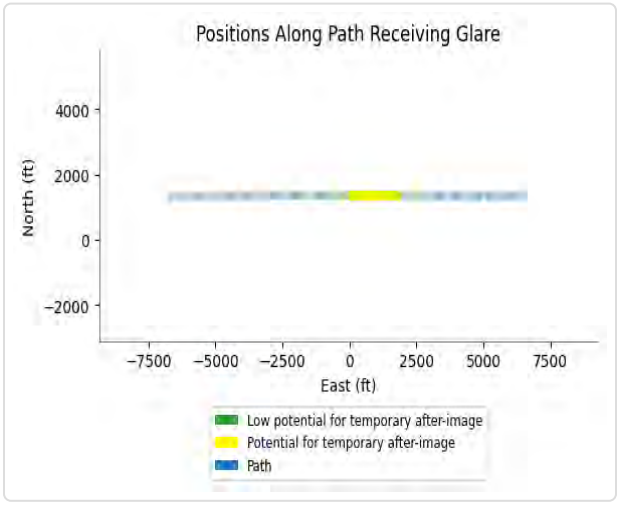
Yellow glare: 1,605 min.

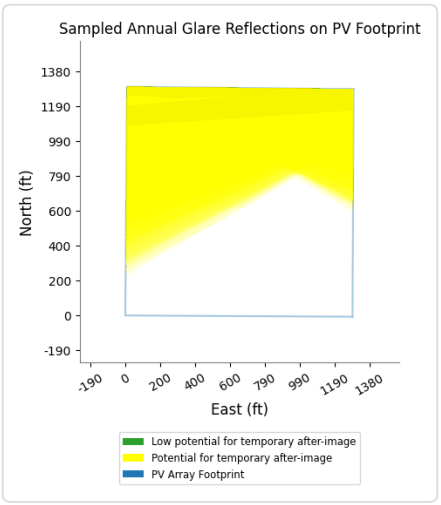
Green glare: 130 min.











PV02 and Route: Route01

No glare found

PV02 and Route: Route02

No glare found

PV02 and Route: Route03

No glare found

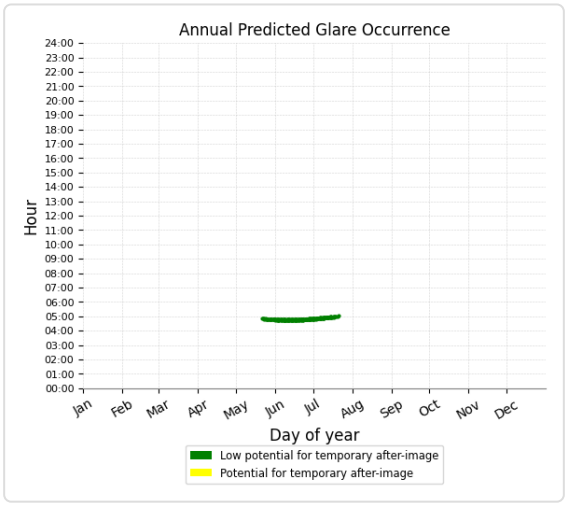
PV02 and Route: Route05

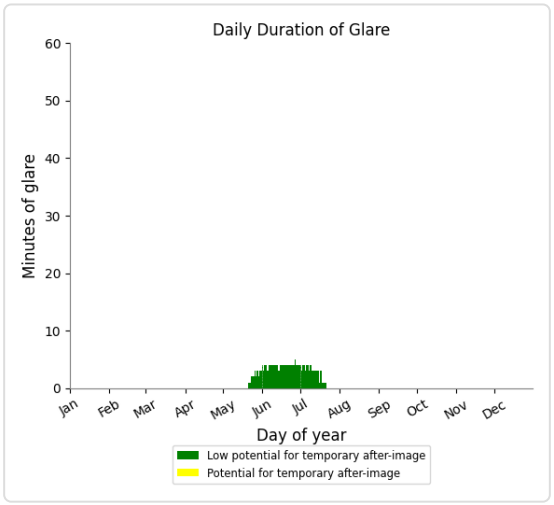
No glare found

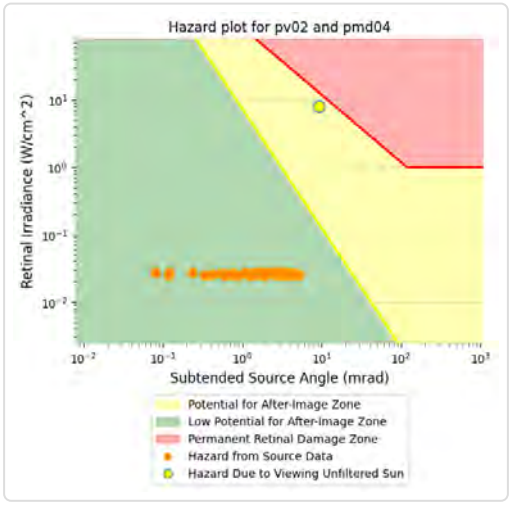
PV02 and FP: PMD04

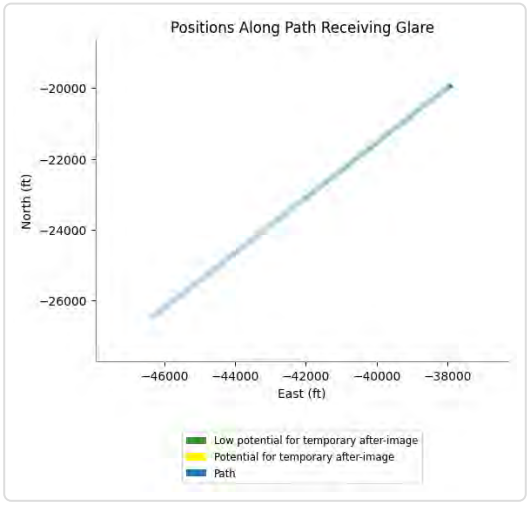
Yellow glare: none

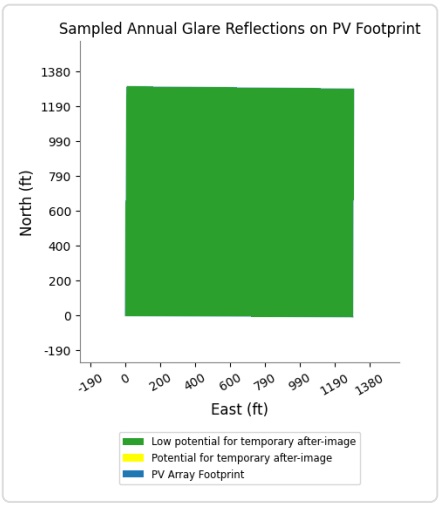
Green glare: 201 min.

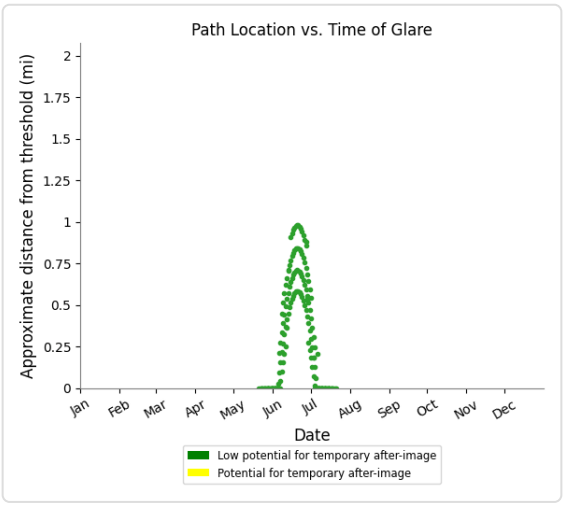








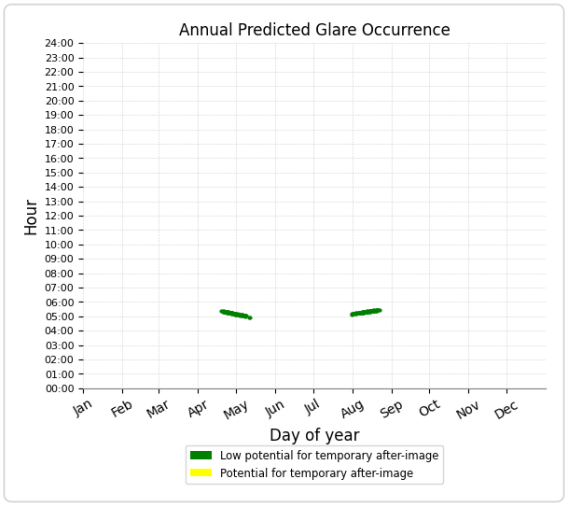


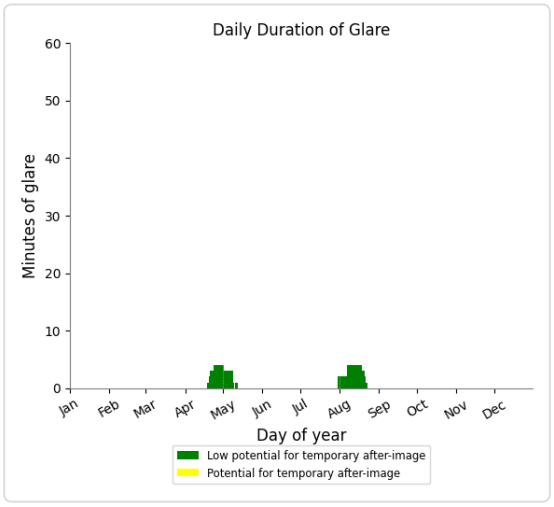


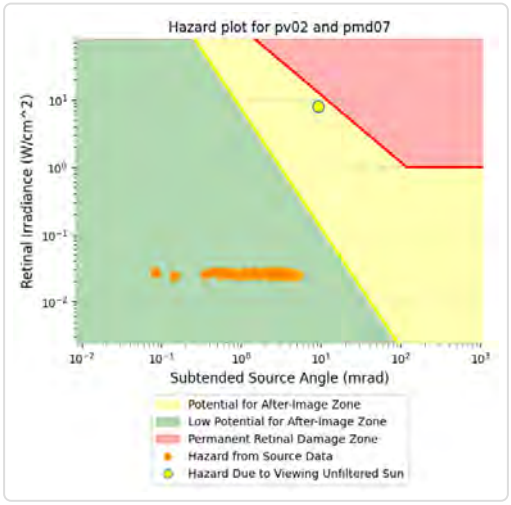
PV02 and FP: PMD07

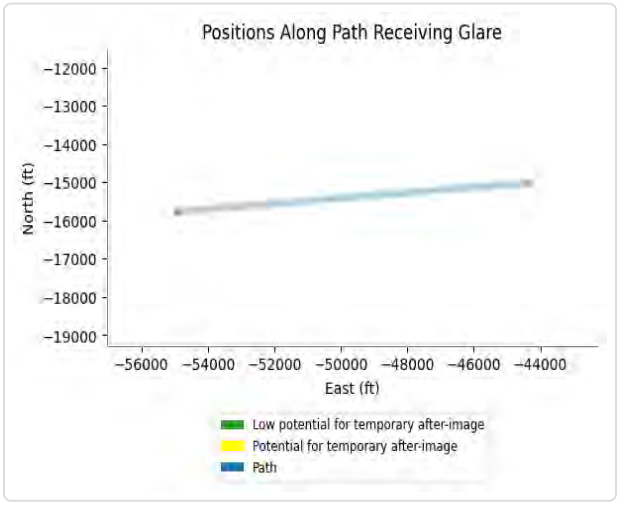
Yellow glare: none

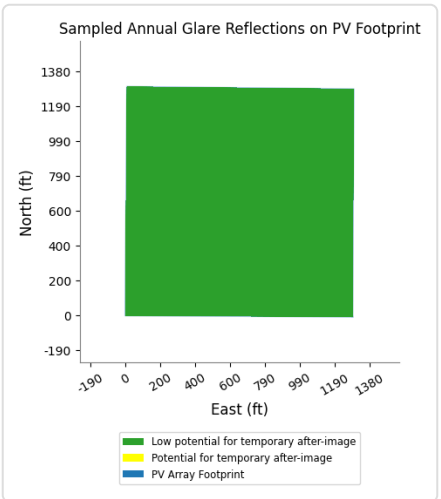
Green glare: 139 min.

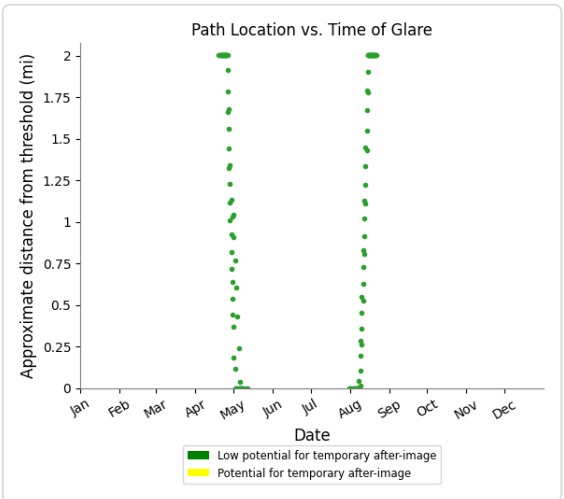








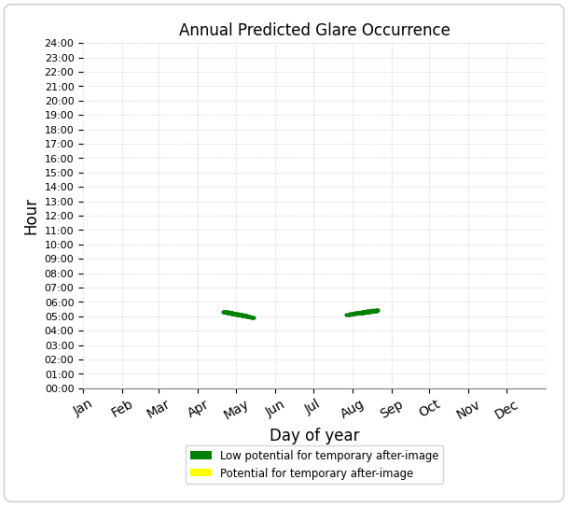


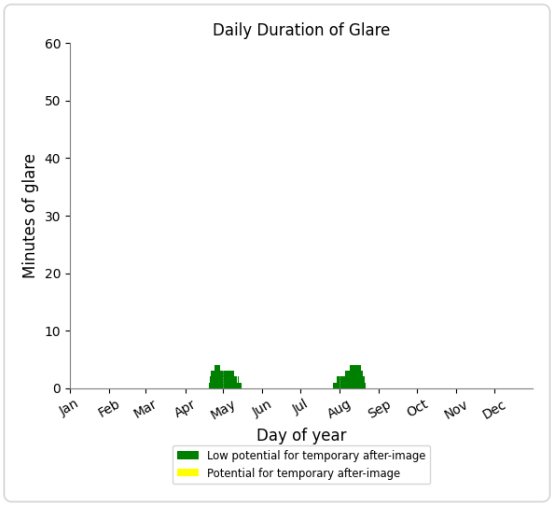


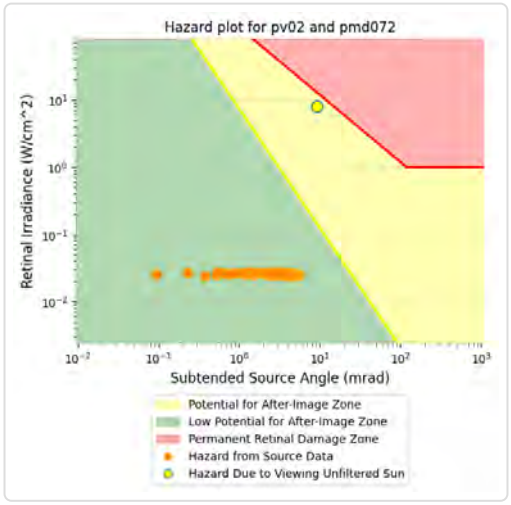
PV02 and FP: PMD072

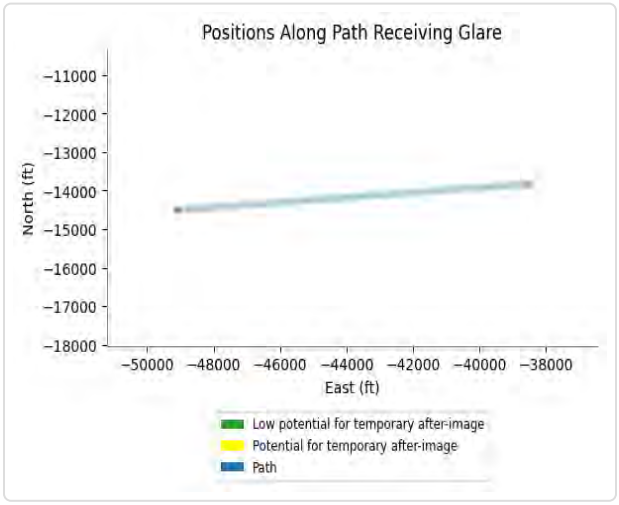
Yellow glare: none

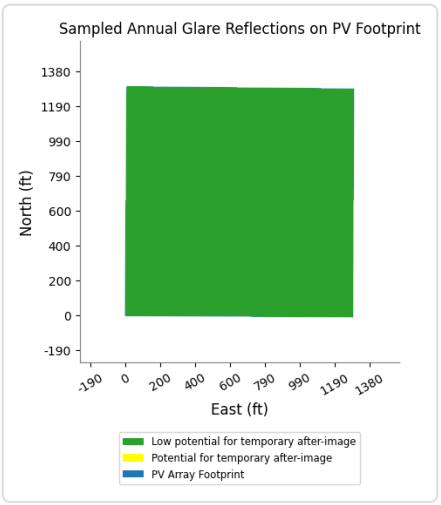
Green glare: 141 min.

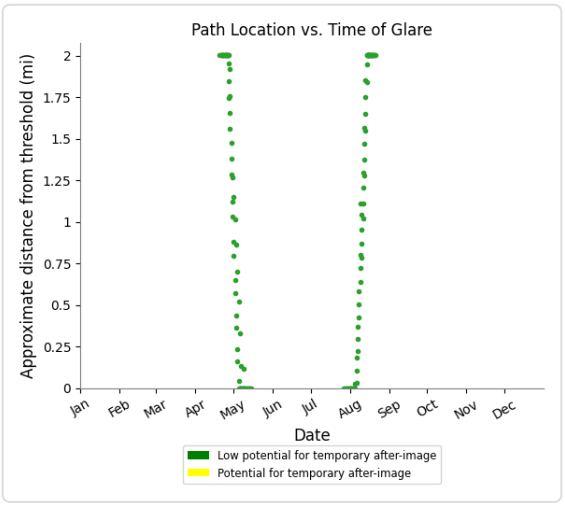












PV02 and FP: PMD22

No glare found

PV02 and FP: PMD25

No glare found

PV02 and FP: PMD252

No glare found

PV02 and OP 1

No glare found

PV02 and OP 2

No glare found

PV02 and OP 3

No glare found

PV02 and OP 4

No glare found

PV02 and OP 5

No glare found

PV02 and OP 6

No glare found

PV02 and OP 7

No glare found

PV02 and OP 8

No glare found

PV02 and OP 9

No glare found

PV02 and OP 10

No glare found

PV02 and OP 11

No glare found

PV02 and OP 12

No glare found

PV02 and OP 13

No glare found

PV02 and OP 14

No glare found

PV02 and OP 15

No glare found

PV02 and OP 16

No glare found

PV02 and OP 17

No glare found

PV02 and OP 18

No glare found

PV02 and OP 19

No glare found

PV02 and OP 20

No glare found

PV02 and OP 21

No glare found

PV02 and 22-ATCT

No glare found

PV: PV03 low potential for temporary after-image

Receptor results ordered by category of glare

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
Route01	0	0.0	0	0.0
Route02	0	0.0	0	0.0
Route03	0	0.0	0	0.0
Route04	0	0.0	0	0.0
Route05	0	0.0	0	0.0
PMD04	238	4.0	0	0.0
PMD07	127	2.1	0	0.0
PMD072	169	2.8	0	0.0
PMD22	0	0.0	0	0.0
PMD25	0	0.0	0	0.0
PMD252	0	0.0	0	0.0
OP 1	0	0.0	0	0.0
OP 2	0	0.0	0	0.0
OP 3	0	0.0	0	0.0
OP 4	0	0.0	0	0.0
OP 5	0	0.0	0	0.0
OP 6	0	0.0	0	0.0
OP 7	0	0.0	0	0.0
OP 8	0	0.0	0	0.0
OP 9	0	0.0	0	0.0
OP 10	0	0.0	0	0.0
OP 11	0	0.0	0	0.0
OP 12	0	0.0	0	0.0
OP 13	0	0.0	0	0.0
OP 14	0	0.0	0	0.0
OP 15	0	0.0	0	0.0
OP 16	0	0.0	0	0.0
OP 17	0	0.0	0	0.0
OP 18	0	0.0	0	0.0
OP 19	0	0.0	0	0.0
OP 20	0	0.0	0	0.0
OP 21	0	0.0	0	0.0
22-ATCT	0	0.0	0	0.0

PV03 and Route: Route01

No glare found

PV03 and Route: Route02

No glare found

PV03 and Route: Route03

No glare found

PV03 and Route: Route04

No glare found

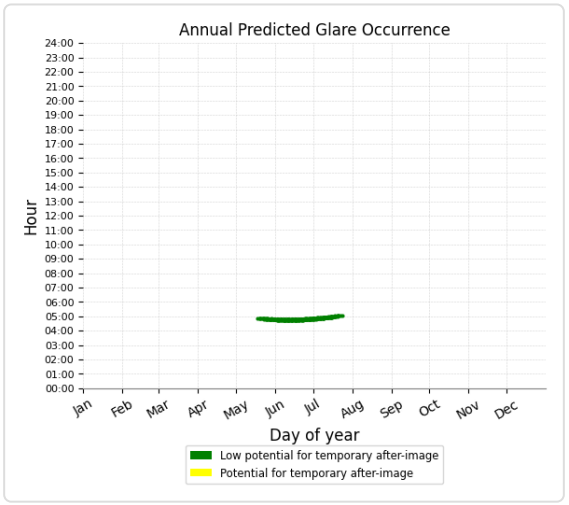
PV03 and Route: Route05

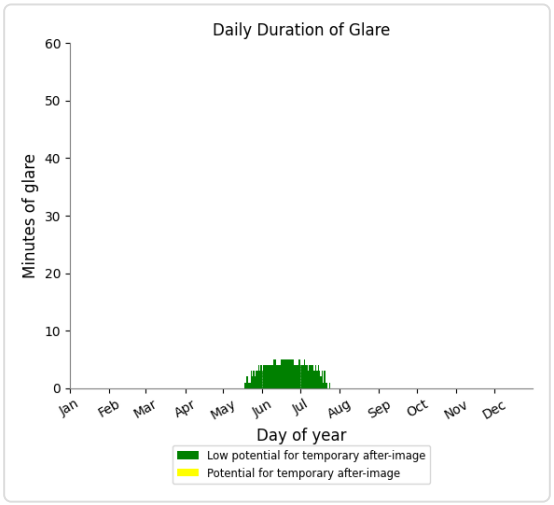
No glare found

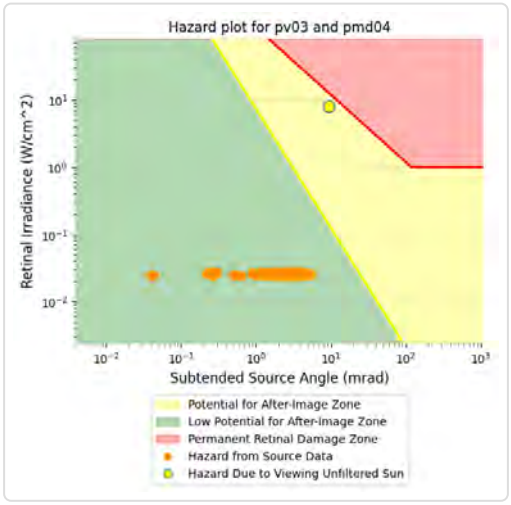
PV03 and FP: PMD04

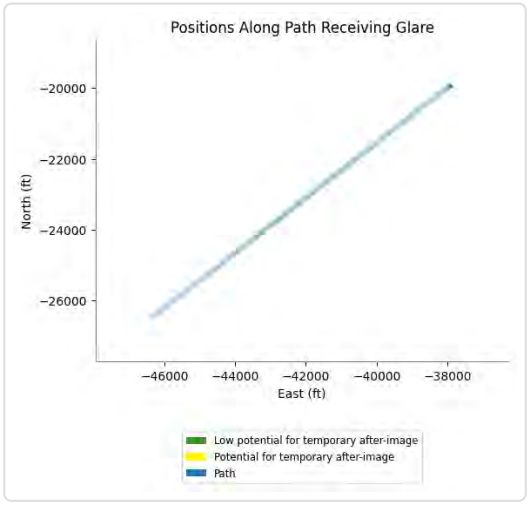
Yellow glare: none

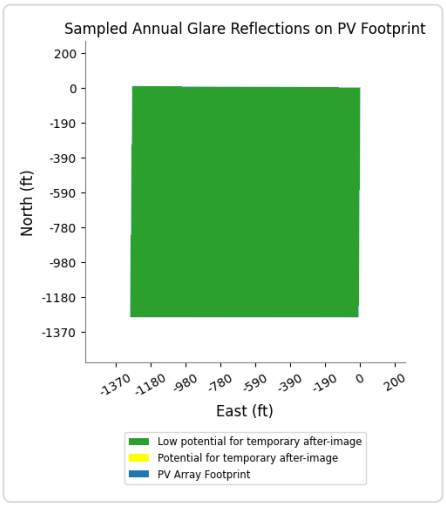
Green glare: 238 min.

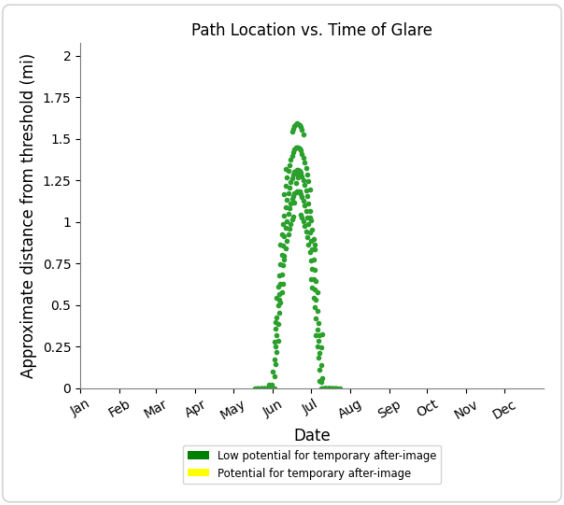








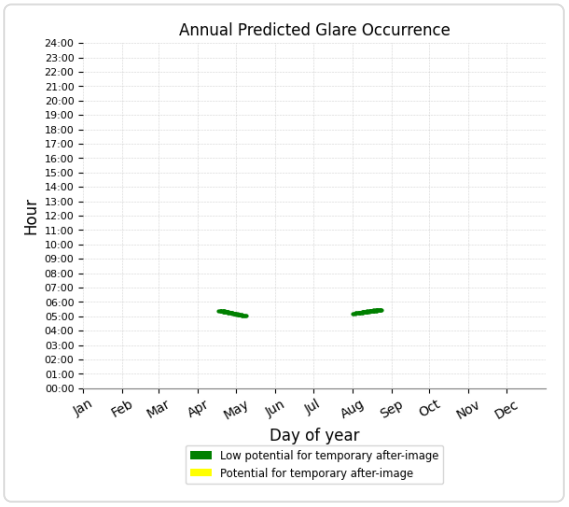


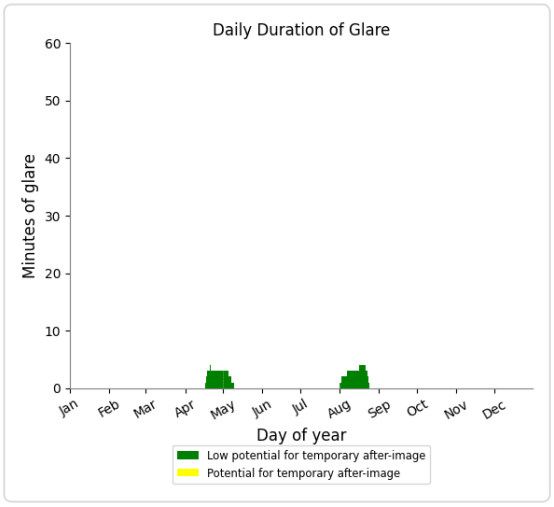


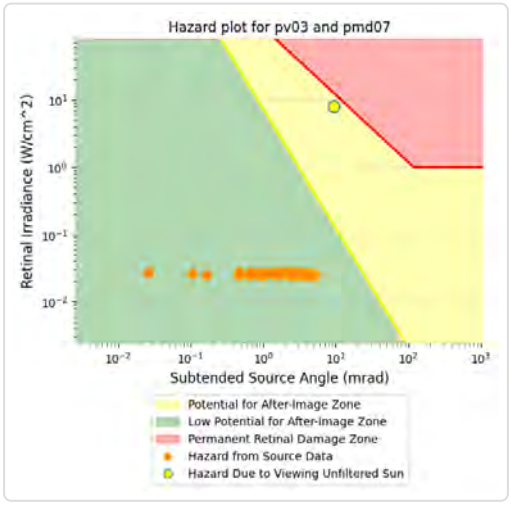
PV03 and FP: PMD07

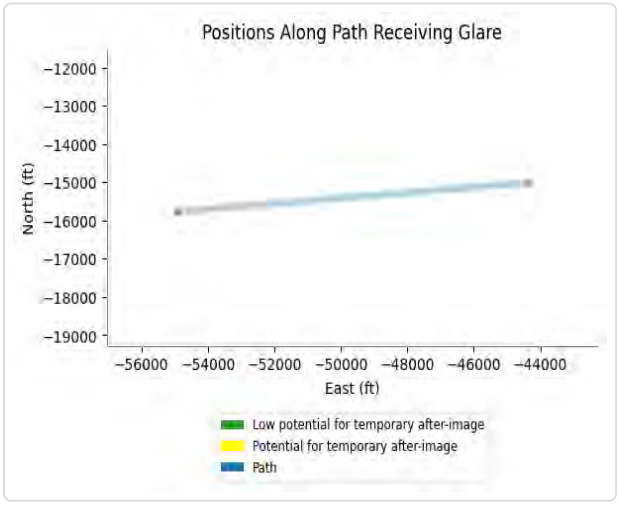
Yellow glare: none

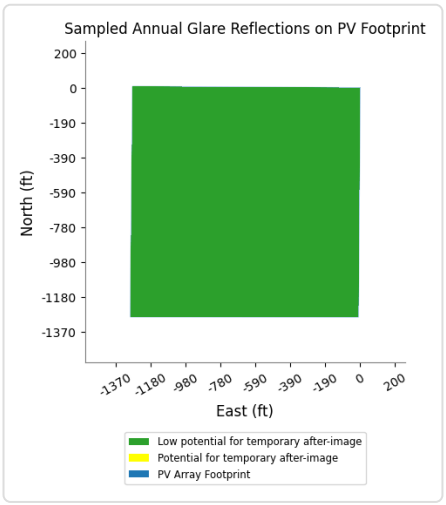
Green glare: 127 min.

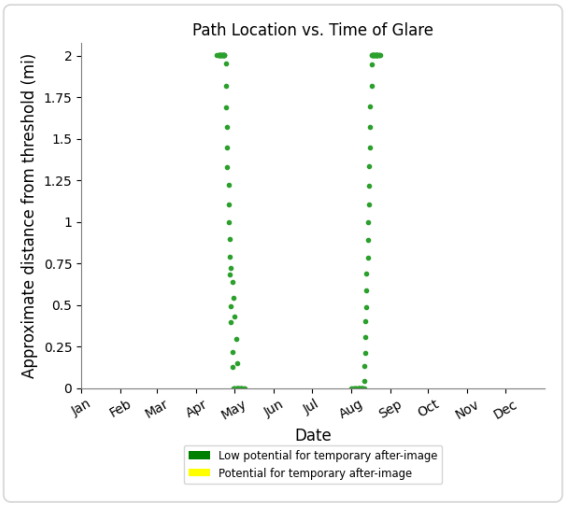








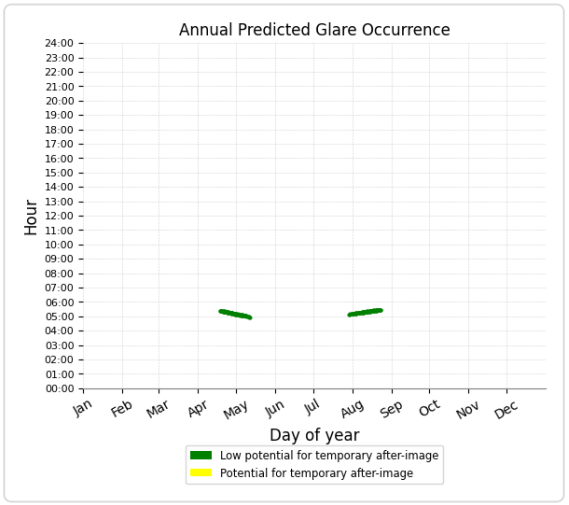


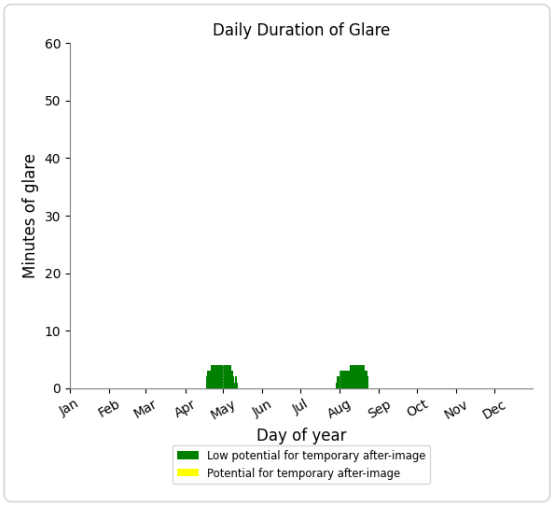


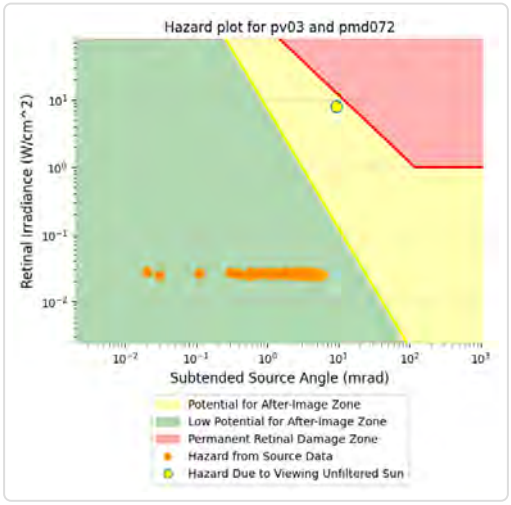
PV03 and FP: PMD072

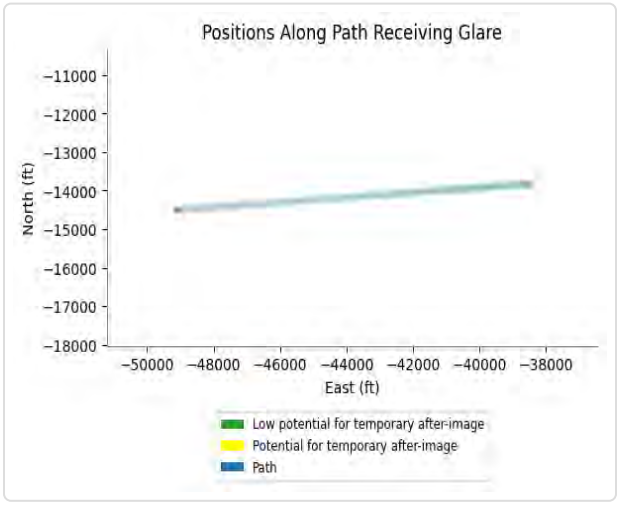
Yellow glare: none

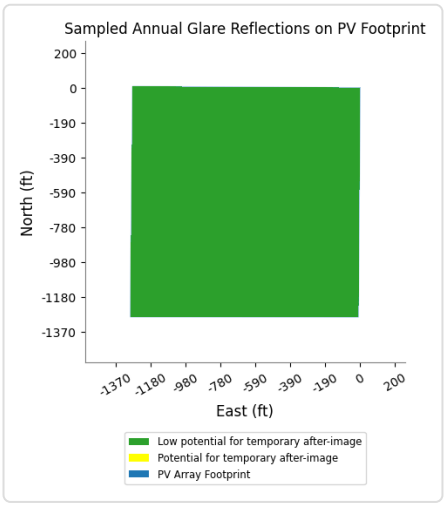
Green glare: 169 min.

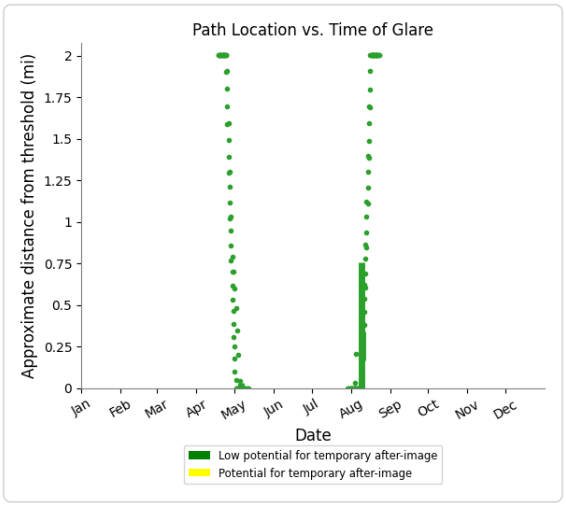












PV03 and FP: PMD22

No glare found

PV03 and FP: PMD25

No glare found

PV03 and FP: PMD252

No glare found

PV03 and OP 1

No glare found

PV03 and OP 2

No glare found

PV03 and OP 3

No glare found

PV03 and OP 4

No glare found

PV03 and OP 5

No glare found

PV03 and OP 6

No glare found

PV03 and OP 7

No glare found

PV03 and OP 8

No glare found

PV03 and OP 9

No glare found

PV03 and OP 10

No glare found

PV03 and OP 11

No glare found

PV03 and OP 12

No glare found

PV03 and OP 13

No glare found

PV03 and OP 14

No glare found

PV03 and OP 15

No glare found

PV03 and OP 16

No glare found

PV03 and OP 17

No glare found

PV03 and OP 18

No glare found

PV03 and OP 19

No glare found

PV03 and OP 20

No glare found

PV03 and OP 21

No glare found

PV03 and 22-ATCT

No glare found

PV: PV04 potential temporary after-image

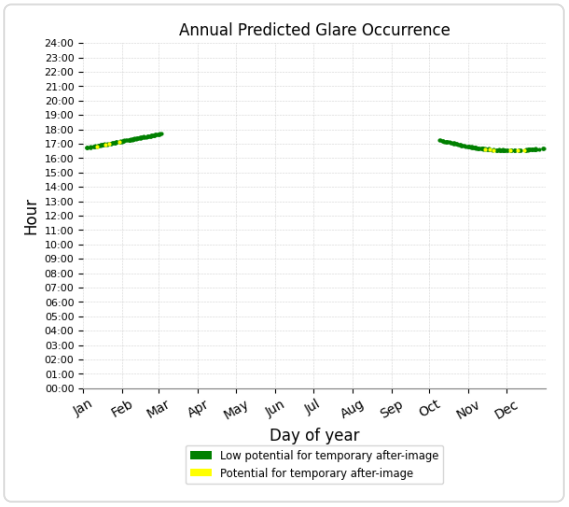
Receptor results ordered by category of glare

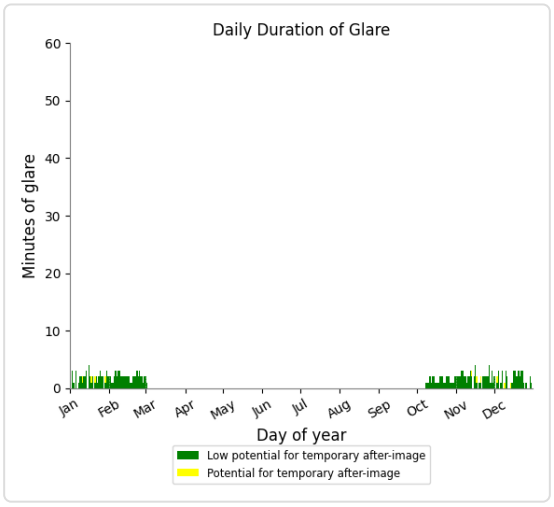
Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
Route04	241	4.0	10	0.2
Route01	0	0.0	0	0.0
Route02	0	0.0	0	0.0
Route03	0	0.0	0	0.0
Route05	0	0.0	0	0.0
PMD04	270	4.5	0	0.0
PMD07	146	2.4	0	0.0
PMD072	161	2.7	0	0.0
PMD22	0	0.0	0	0.0
PMD25	0	0.0	0	0.0
PMD252	0	0.0	0	0.0
OP 1	0	0.0	0	0.0
OP 2	0	0.0	0	0.0
OP 3	0	0.0	0	0.0
OP 4	0	0.0	0	0.0
OP 5	0	0.0	0	0.0
OP 6	0	0.0	0	0.0
OP 7	0	0.0	0	0.0
OP 8	0	0.0	0	0.0
OP 9	0	0.0	0	0.0
OP 10	0	0.0	0	0.0
OP 11	0	0.0	0	0.0
OP 12	0	0.0	0	0.0
OP 13	0	0.0	0	0.0
OP 14	0	0.0	0	0.0
OP 15	0	0.0	0	0.0
OP 16	0	0.0	0	0.0
OP 17	0	0.0	0	0.0
OP 18	0	0.0	0	0.0
OP 19	0	0.0	0	0.0
OP 20	0	0.0	0	0.0
OP 21	0	0.0	0	0.0
22-ATCT	0	0.0	0	0.0

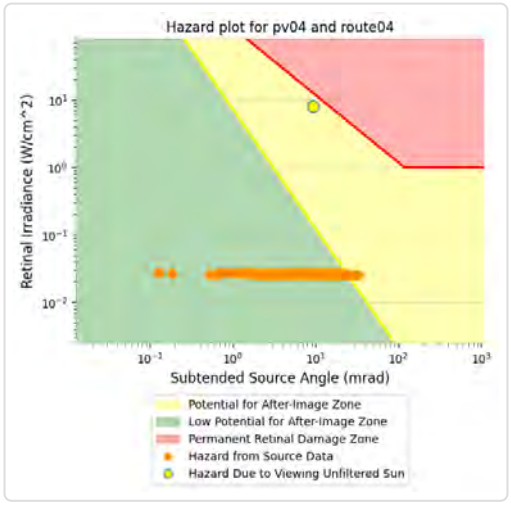
PV04 and Route: Route04

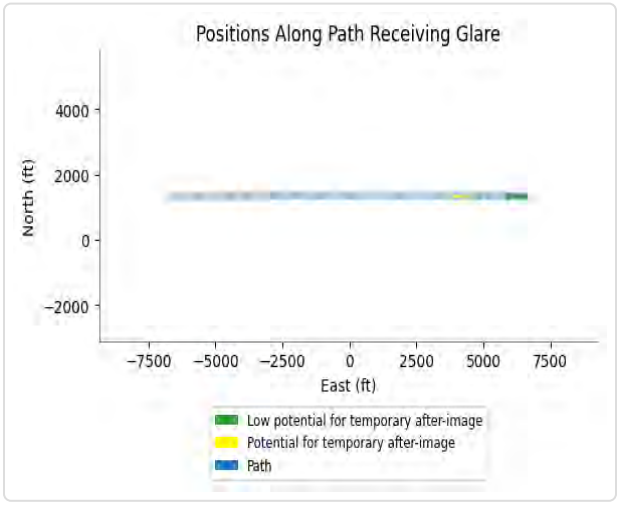
Yellow glare: 10 min.

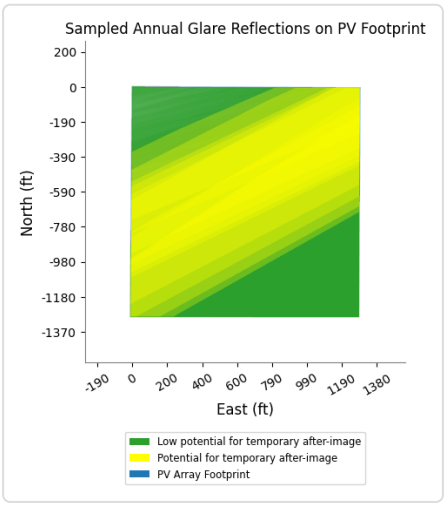
Green glare: 241 min.











PV04 and Route: Route01

No glare found

PV04 and Route: Route02

No glare found

PV04 and Route: Route03

No glare found

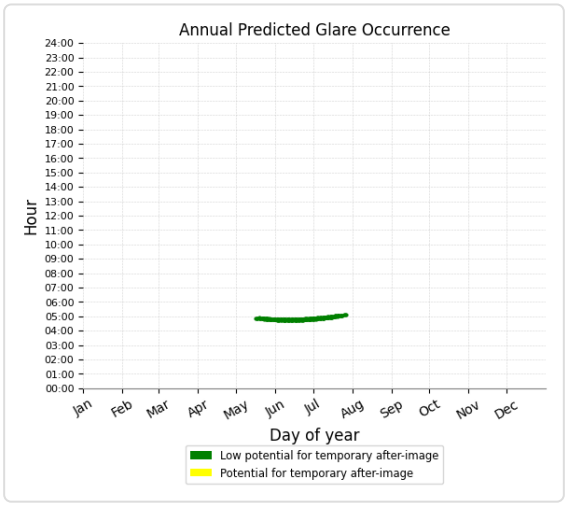
PV04 and Route: Route05

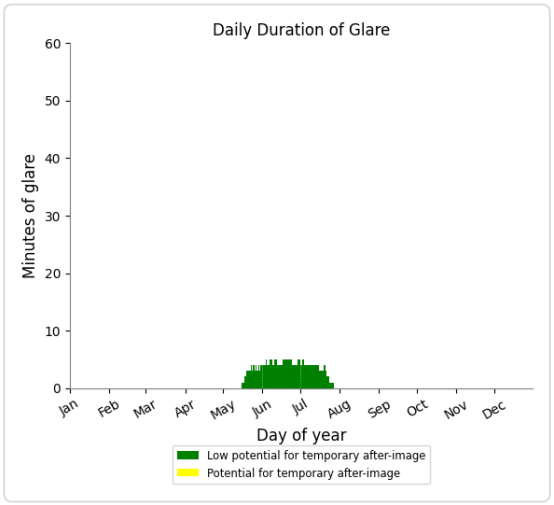
No glare found

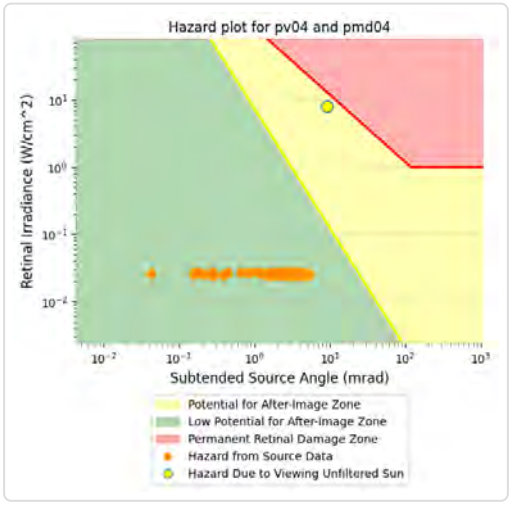
PV04 and FP: PMD04

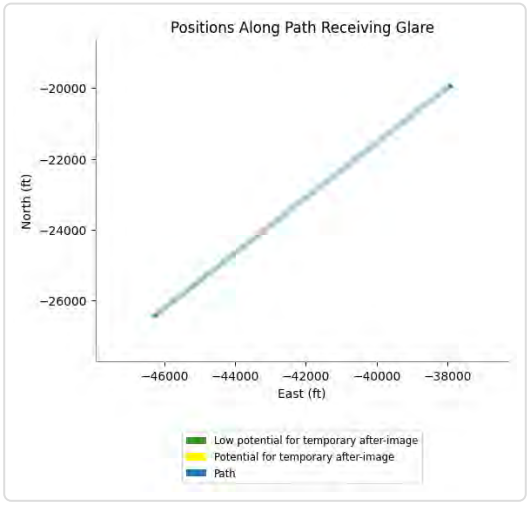
Yellow glare: none

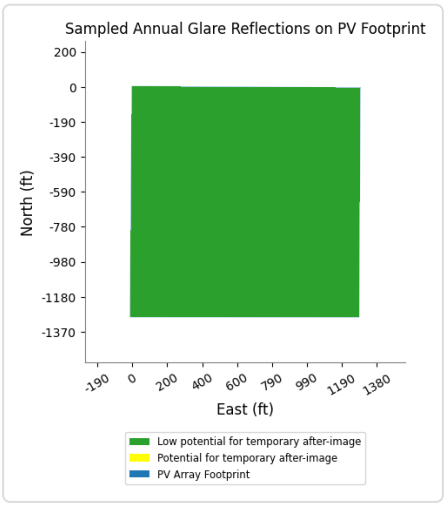
Green glare: 270 min.

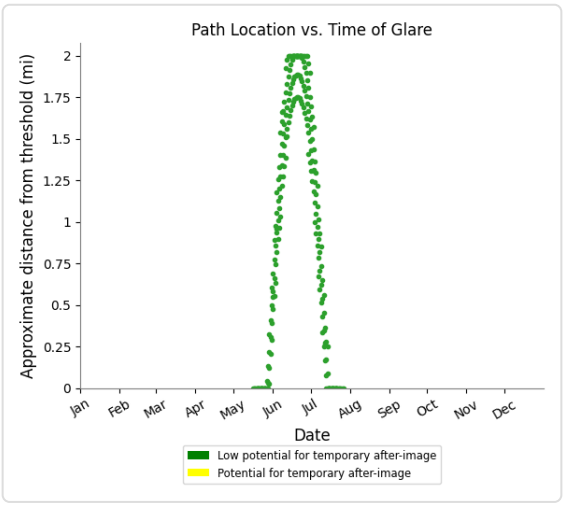








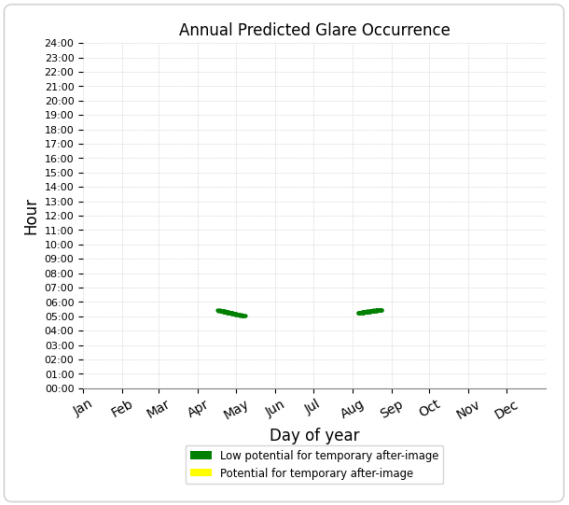


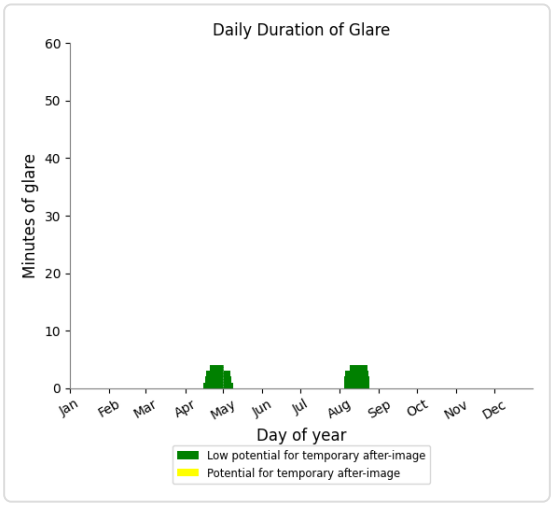


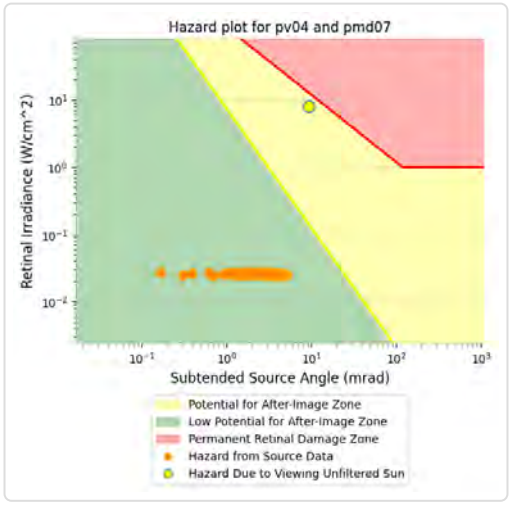
PV04 and FP: PMD07

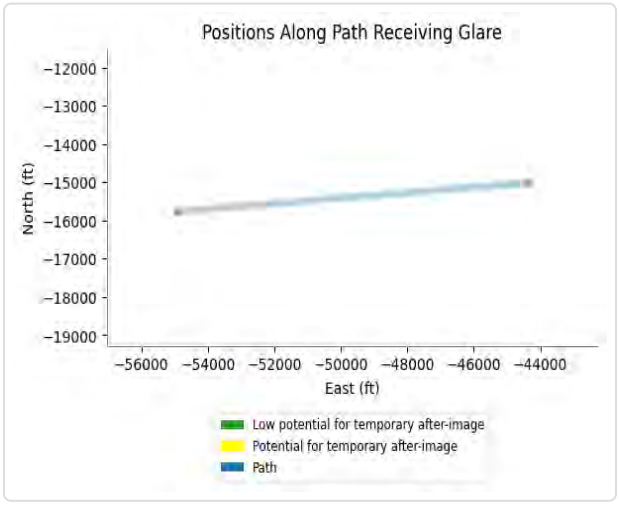
Yellow glare: none

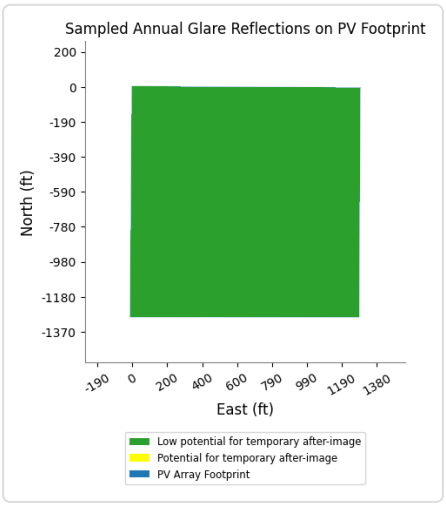
Green glare: 146 min.

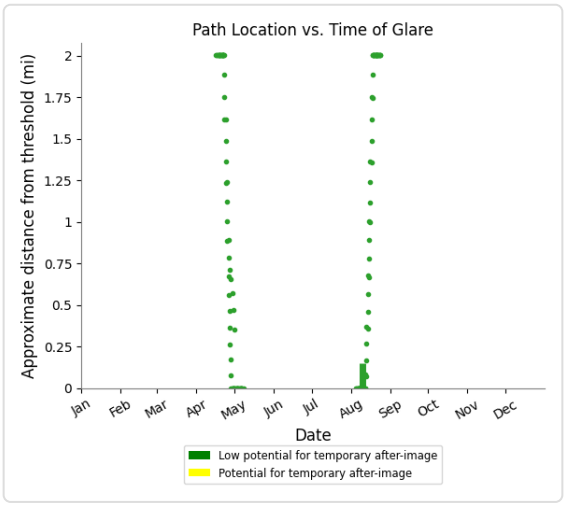








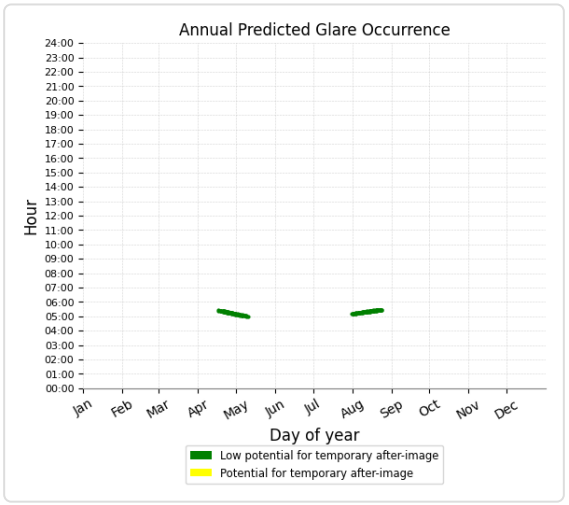


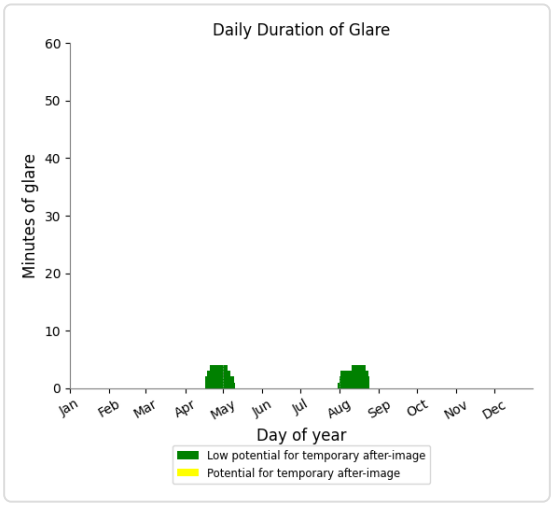


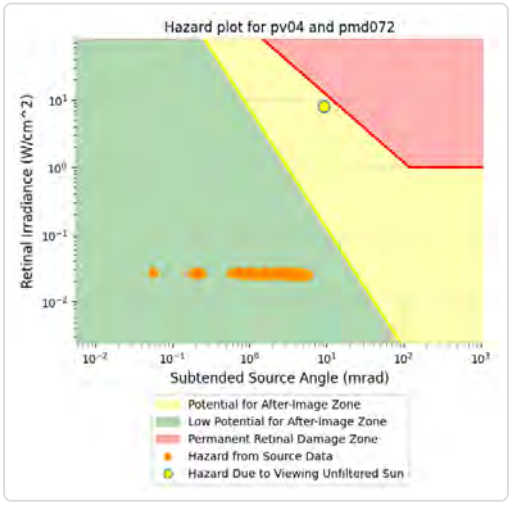
PV04 and FP: PMD072

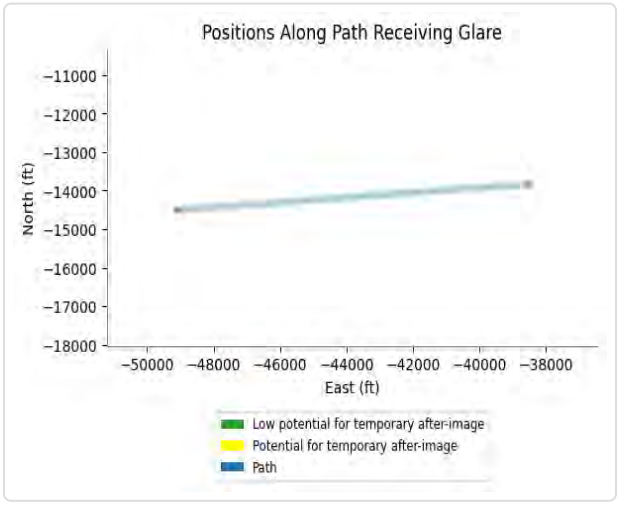
Yellow glare: none

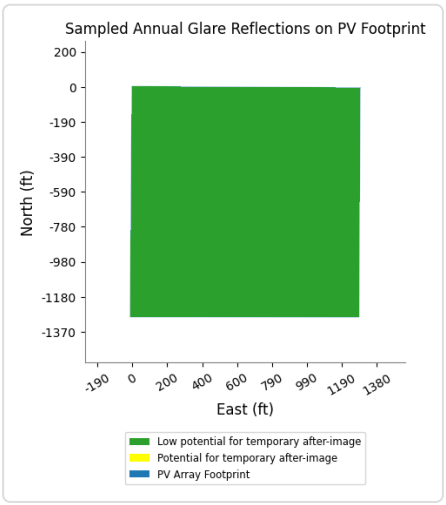
Green glare: 161 min.

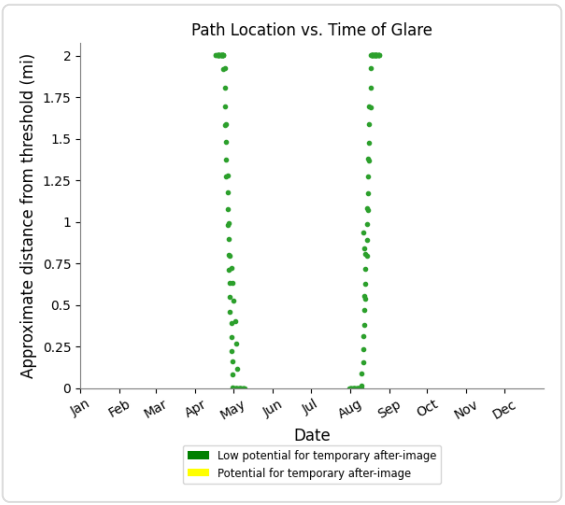












PV04 and FP: PMD22

No glare found

PV04 and FP: PMD25

No glare found

PV04 and FP: PMD252

No glare found

PV04 and OP 1

No glare found

PV04 and OP 2

No glare found

PV04 and OP 3

No glare found

PV04 and OP 4

No glare found

PV04 and OP 5

No glare found

PV04 and OP 6

No glare found

PV04 and OP 7

No glare found

PV04 and OP 8

No glare found

PV04 and OP 9

No glare found

PV04 and OP 10

No glare found

PV04 and OP 11

No glare found

PV04 and OP 12

No glare found

PV04 and OP 13

No glare found

PV04 and OP 14

No glare found

PV04 and OP 15

No glare found

PV04 and OP 16

No glare found

PV04 and OP 17

No glare found

PV04 and OP 18

No glare found

PV04 and OP 19

No glare found

PV04 and OP 20

No glare found

PV04 and OP 21

No glare found

PV04 and 22-ATCT

No glare found

PV: PV05 low potential for temporary after-image

Receptor results ordered by category of glare

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
Route01	0	0.0	0	0.0
Route02	0	0.0	0	0.0
Route03	0	0.0	0	0.0
Route04	0	0.0	0	0.0
Route05	0	0.0	0	0.0
PMD04	339	5.7	0	0.0
PMD07	137	2.3	0	0.0
PMD072	144	2.4	0	0.0
PMD22	0	0.0	0	0.0
PMD25	0	0.0	0	0.0
PMD252	0	0.0	0	0.0
OP 1	0	0.0	0	0.0
OP 2	0	0.0	0	0.0
OP 3	0	0.0	0	0.0
OP 4	0	0.0	0	0.0
OP 5	0	0.0	0	0.0
OP 6	0	0.0	0	0.0
OP 7	0	0.0	0	0.0
OP 8	0	0.0	0	0.0
OP 9	0	0.0	0	0.0
OP 10	0	0.0	0	0.0
OP 11	0	0.0	0	0.0
OP 12	0	0.0	0	0.0
OP 13	0	0.0	0	0.0
OP 14	0	0.0	0	0.0
OP 15	0	0.0	0	0.0
OP 16	0	0.0	0	0.0
OP 17	0	0.0	0	0.0
OP 18	0	0.0	0	0.0
OP 19	0	0.0	0	0.0
OP 20	0	0.0	0	0.0
OP 21	0	0.0	0	0.0
22-ATCT	0	0.0	0	0.0

PV05 and Route: Route01

No glare found

PV05 and Route: Route02

No glare found

PV05 and Route: Route03

No glare found

PV05 and Route: Route04

No glare found

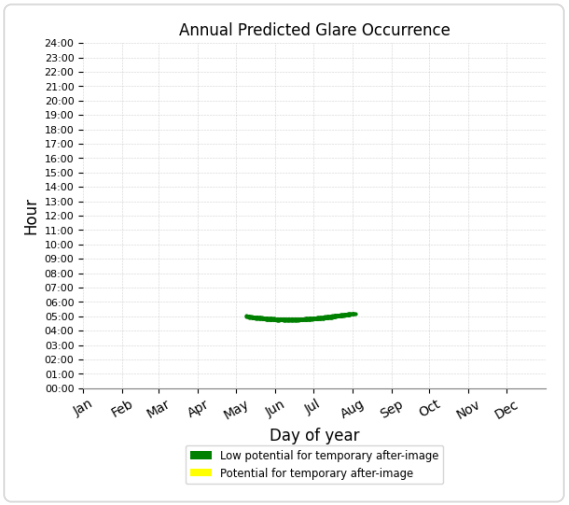
PV05 and Route: Route05

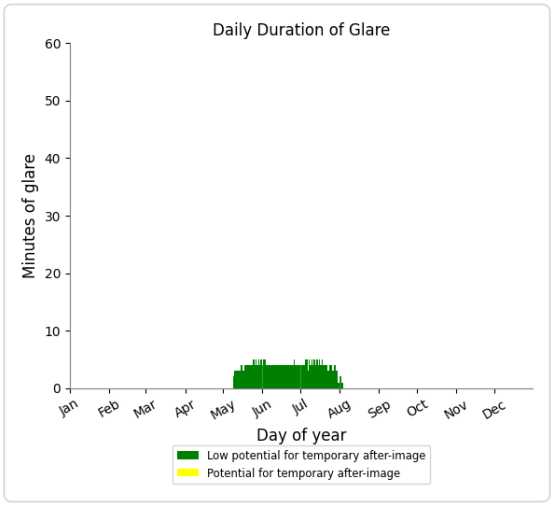
No glare found

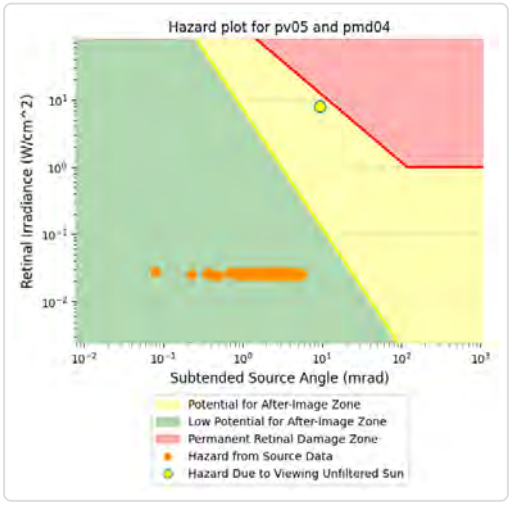
PV05 and FP: PMD04

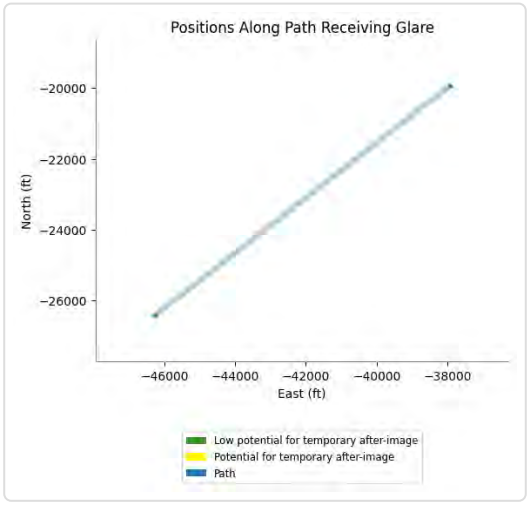
Yellow glare: none

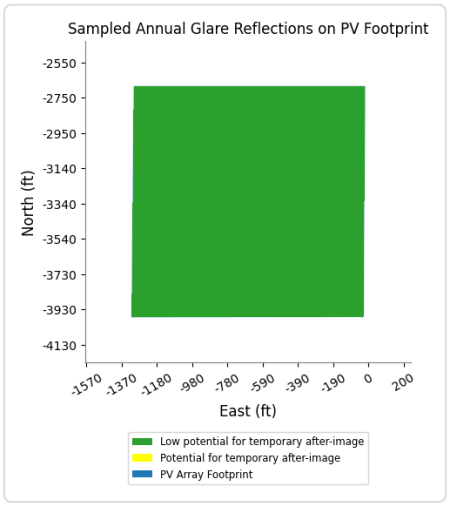
Green glare: 339 min.

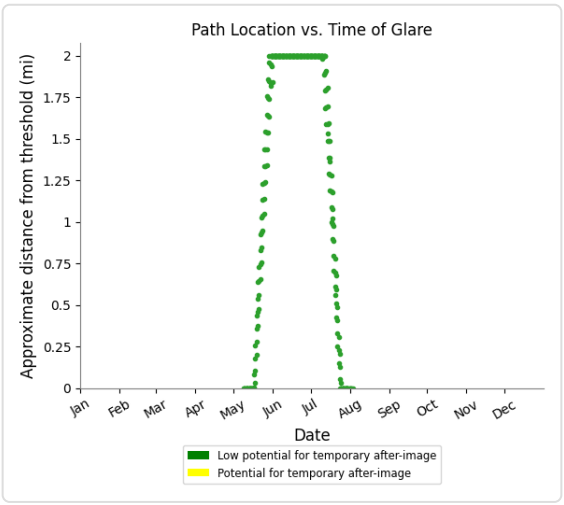








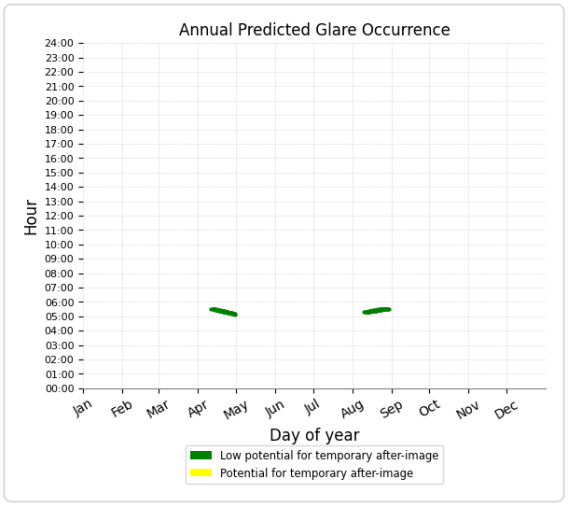


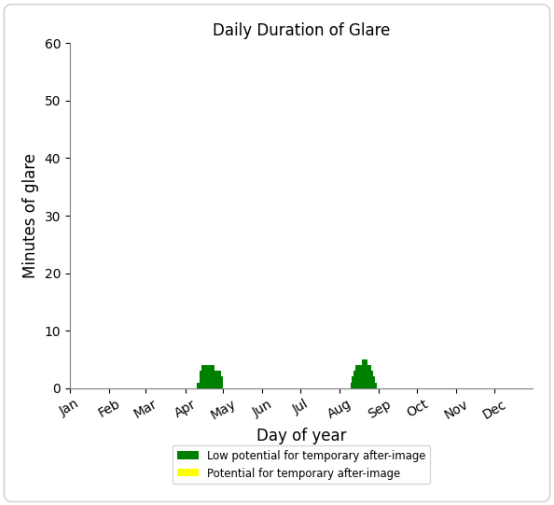


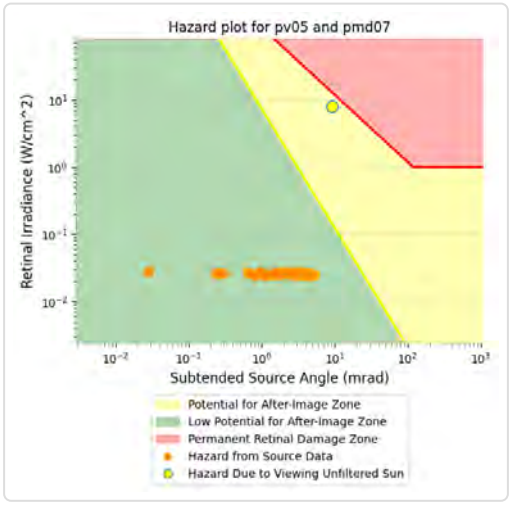
PV05 and FP: PMD07

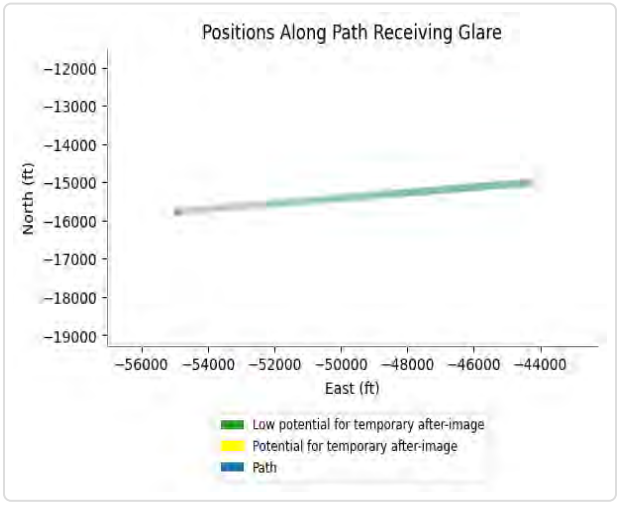
Yellow glare: none

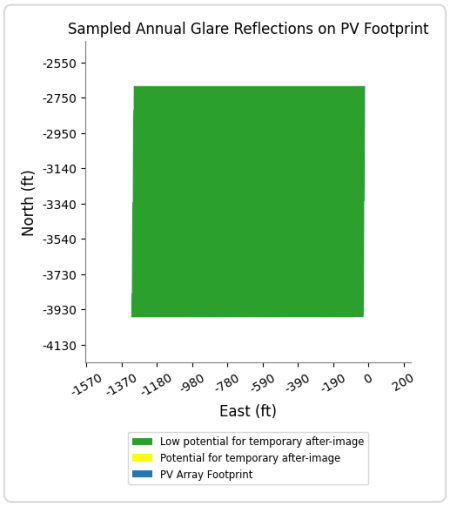
Green glare: 137 min.

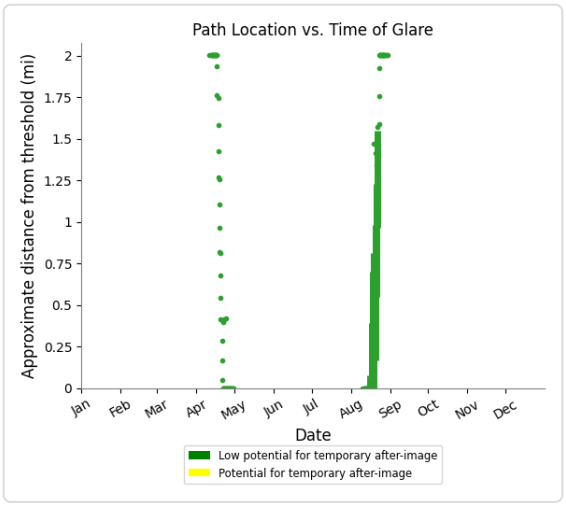








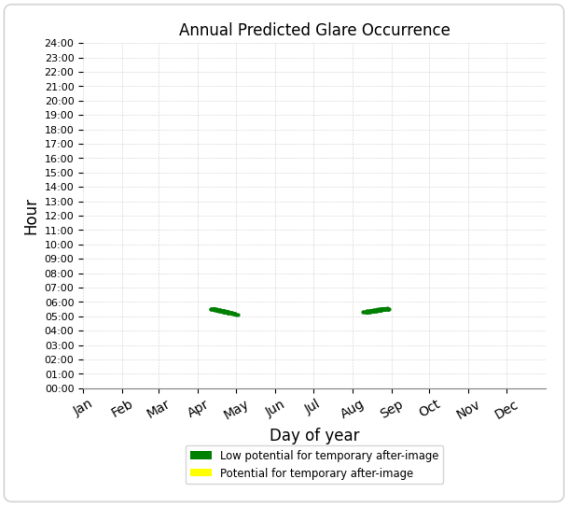


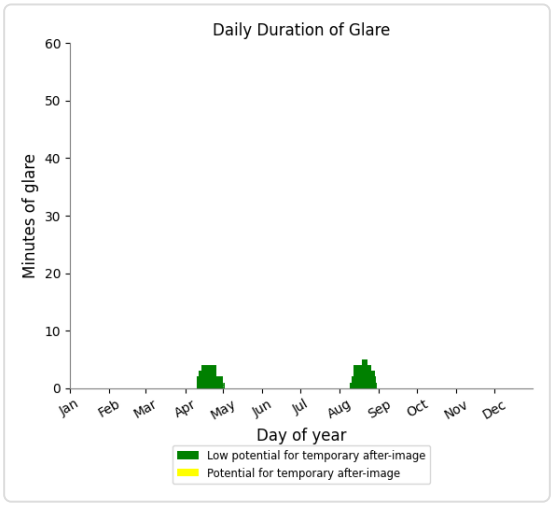


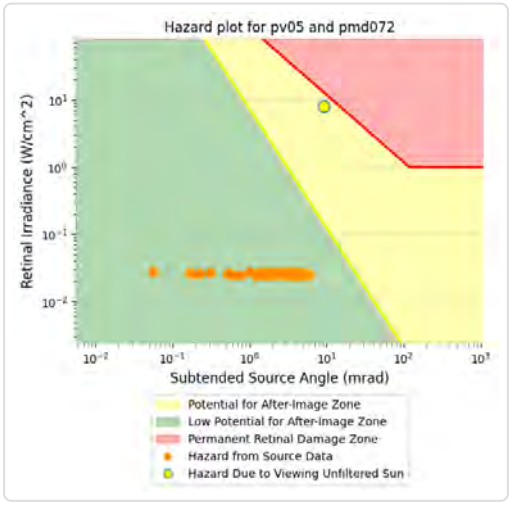
PV05 and FP: PMD072

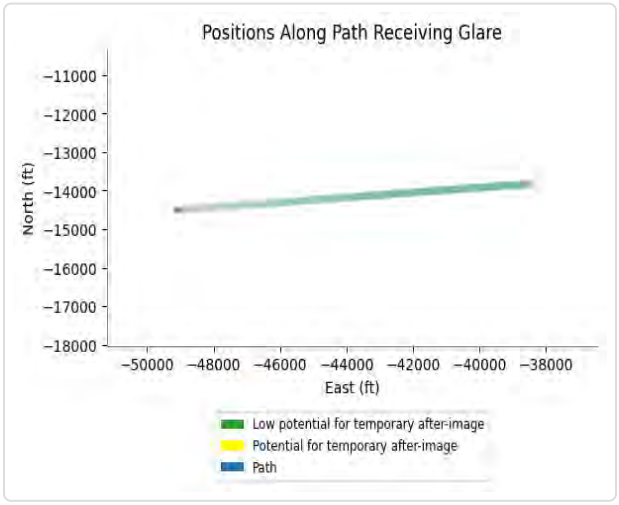
Yellow glare: none

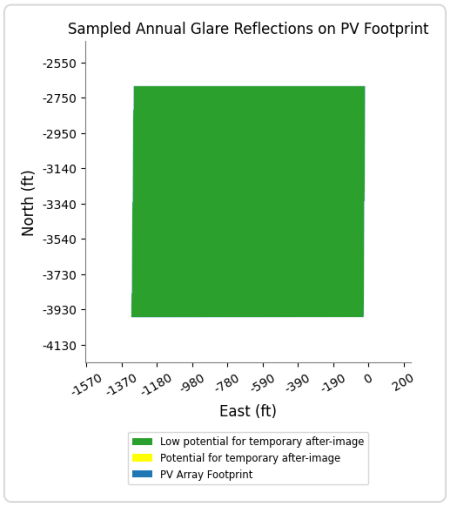
Green glare: 144 min.

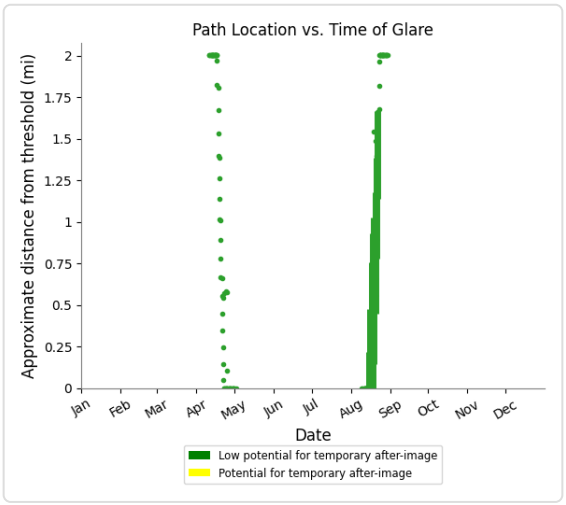












PV05 and FP: PMD22

No glare found

PV05 and FP: PMD25

No glare found

PV05 and FP: PMD252

No glare found

PV05 and OP 1

No glare found

PV05 and OP 2

No glare found

PV05 and OP 3

No glare found

PV05 and OP 4

No glare found

PV05 and OP 5

No glare found

PV05 and OP 6

No glare found

PV05 and OP 7

No glare found

PV05 and OP 8

No glare found

PV05 and OP 9

No glare found

PV05 and OP 10

No glare found

PV05 and OP 11

No glare found

PV05 and OP 12

No glare found

PV05 and OP 13

No glare found

PV05 and OP 14

No glare found

PV05 and OP 15

No glare found

PV05 and OP 16

No glare found

PV05 and OP 17

No glare found

PV05 and OP 18

No glare found

PV05 and OP 19

No glare found

PV05 and OP 20

No glare found

PV05 and OP 21

No glare found

PV05 and 22-ATCT

No glare found

PV: PV06 low potential for temporary after-image

Receptor results ordered by category of glare

Receptor	Annual Green Glare		Annual Yellow Glare	
	min	hr	min	hr
Route01	0	0.0	0	0.0
Route02	0	0.0	0	0.0
Route03	0	0.0	0	0.0
Route04	0	0.0	0	0.0
Route05	0	0.0	0	0.0
PMD04	355	5.9	0	0.0
PMD07	123	2.0	0	0.0
PMD072	111	1.9	0	0.0
PMD22	0	0.0	0	0.0
PMD25	0	0.0	0	0.0
PMD252	0	0.0	0	0.0
OP 1	0	0.0	0	0.0
OP 2	0	0.0	0	0.0
OP 3	0	0.0	0	0.0
OP 4	0	0.0	0	0.0
OP 5	0	0.0	0	0.0
OP 6	0	0.0	0	0.0
OP 7	0	0.0	0	0.0
OP 8	0	0.0	0	0.0
OP 9	0	0.0	0	0.0
OP 10	0	0.0	0	0.0
OP 11	0	0.0	0	0.0
OP 12	0	0.0	0	0.0
OP 13	0	0.0	0	0.0
OP 14	0	0.0	0	0.0
OP 15	0	0.0	0	0.0
OP 16	0	0.0	0	0.0
OP 17	0	0.0	0	0.0
OP 18	0	0.0	0	0.0
OP 19	0	0.0	0	0.0
OP 20	0	0.0	0	0.0
OP 21	0	0.0	0	0.0
22-ATCT	0	0.0	0	0.0

PV06 and Route: Route01

No glare found

PV06 and Route: Route02

No glare found

PV06 and Route: Route03

No glare found

PV06 and Route: Route04

No glare found

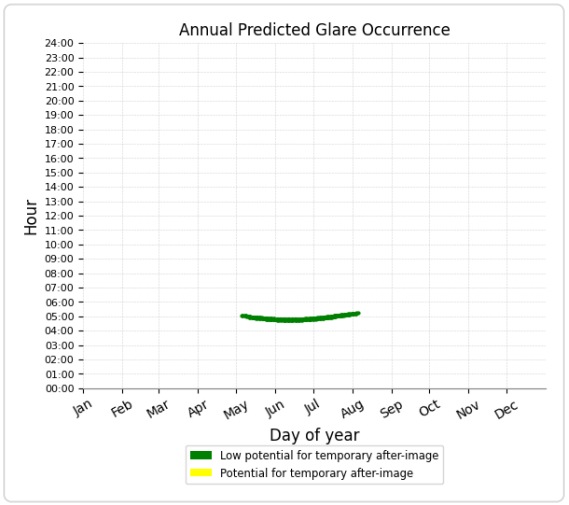
PV06 and Route: Route05

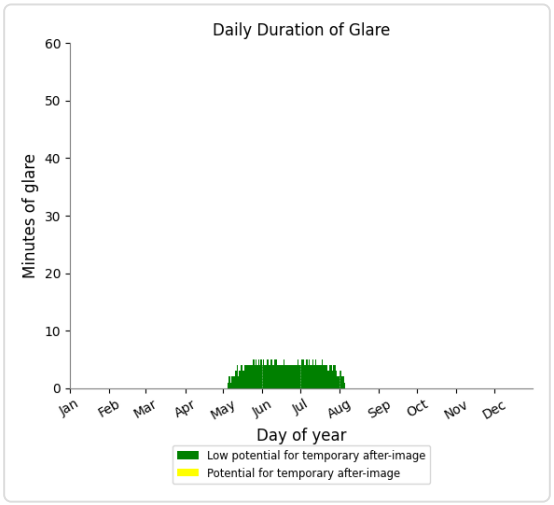
No glare found

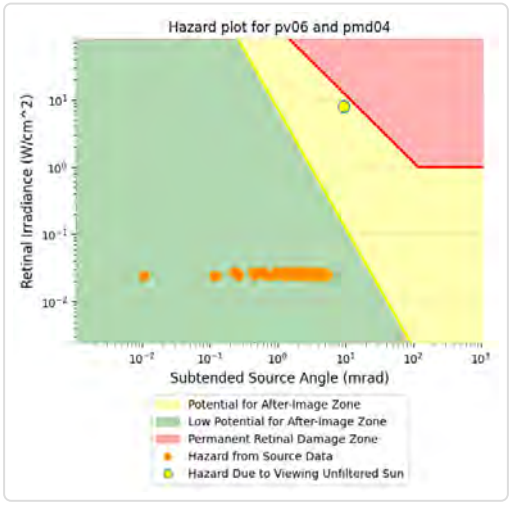
PV06 and FP: PMD04

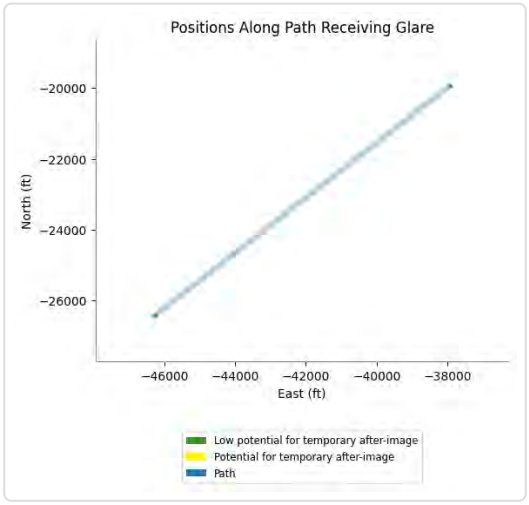
Yellow glare: none

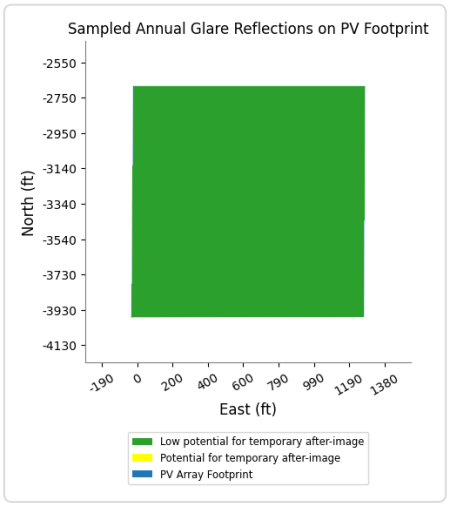
Green glare: 355 min.

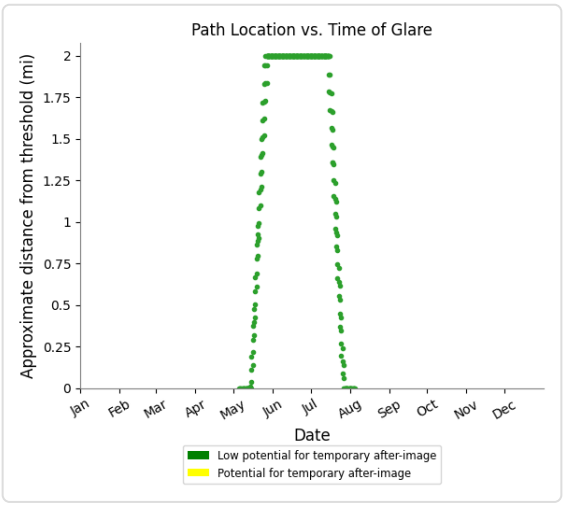








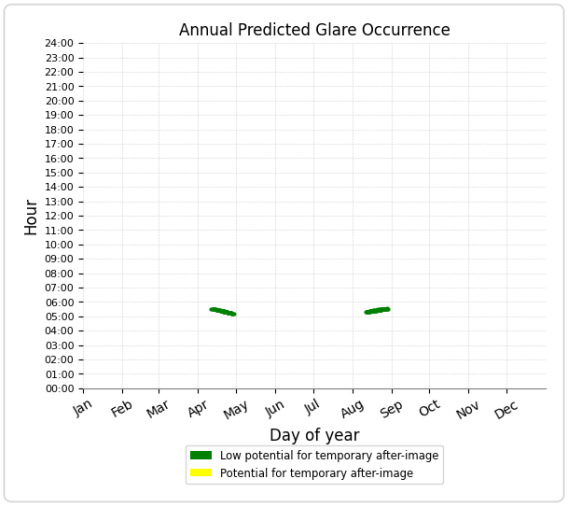


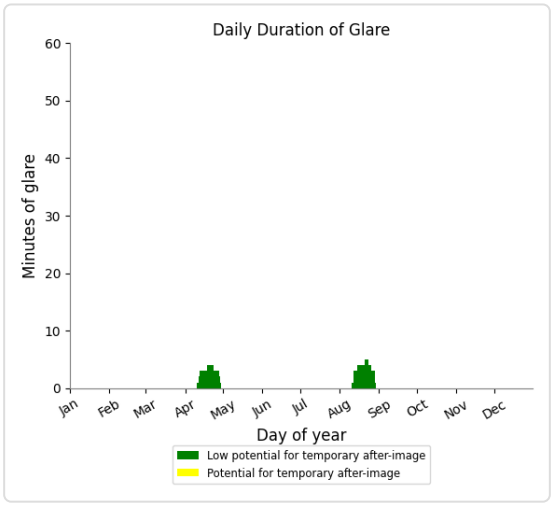


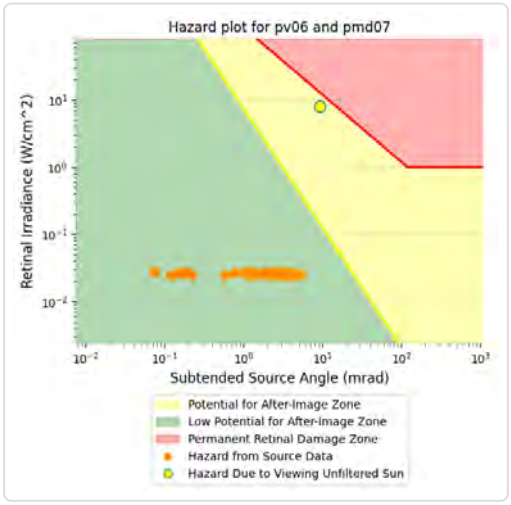
PV06 and FP: PMD07

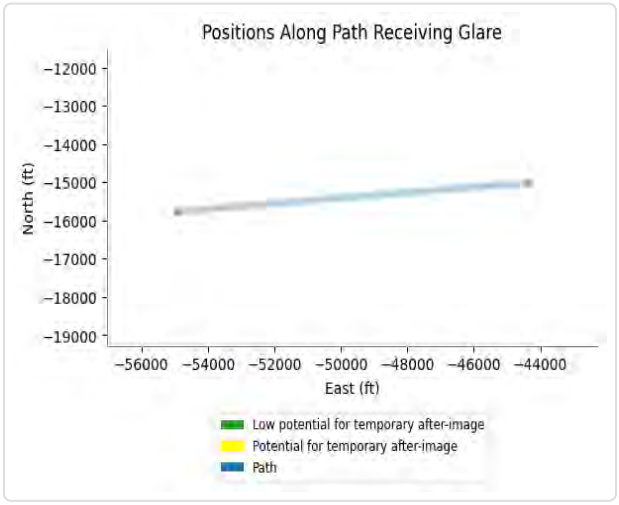
Yellow glare: none

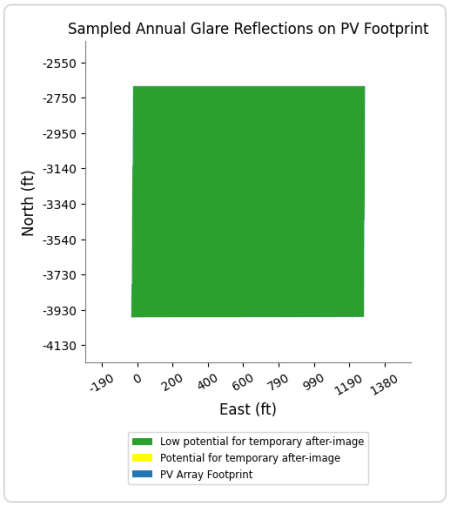
Green glare: 123 min.

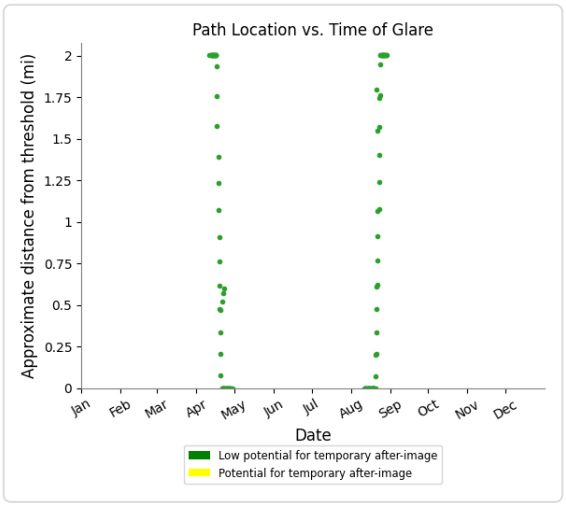








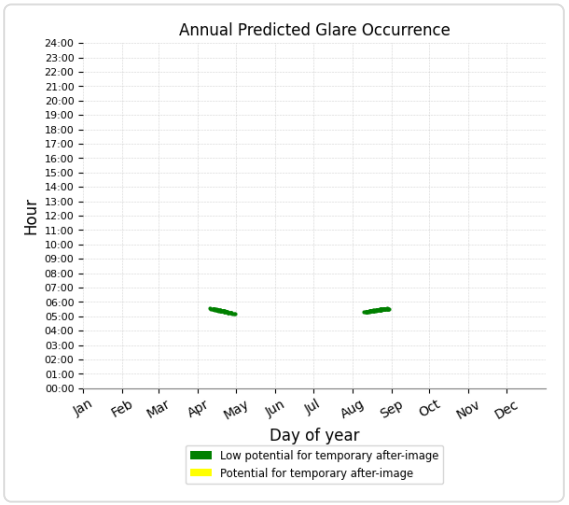


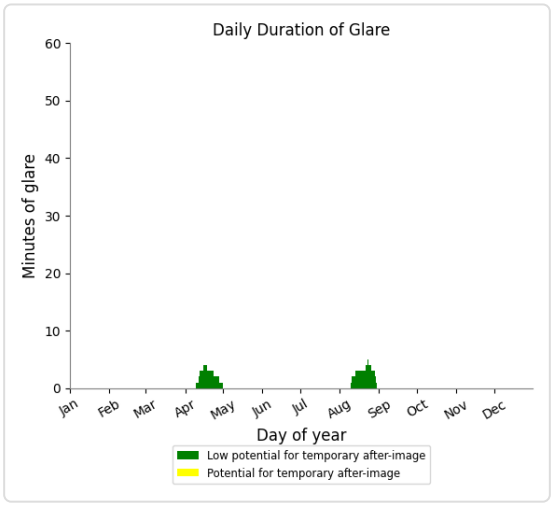


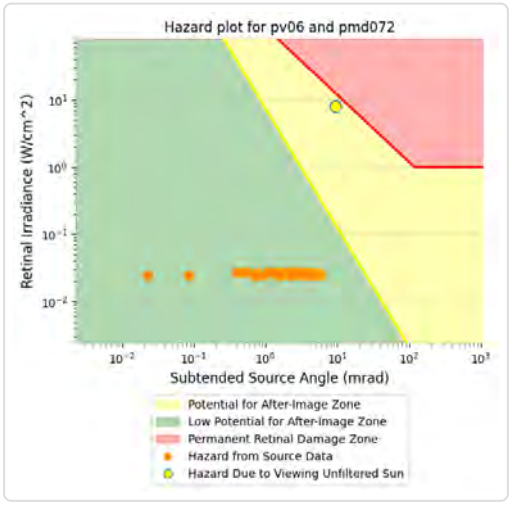
PV06 and FP: PMD072

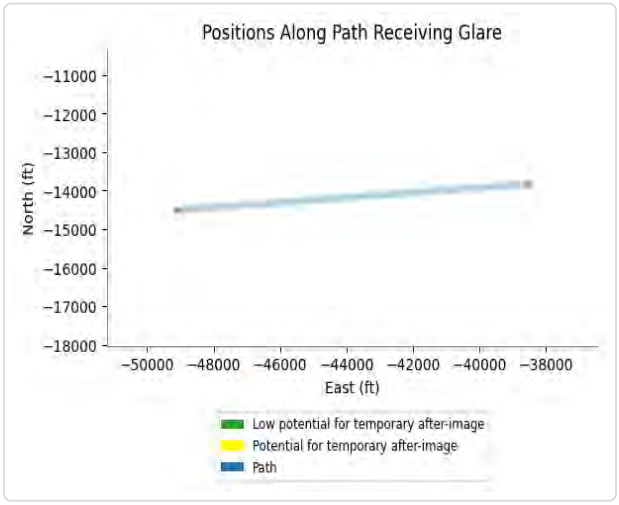
Yellow glare: none

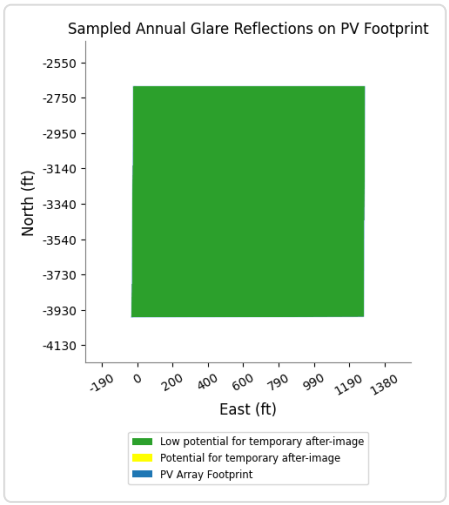
Green glare: 111 min.

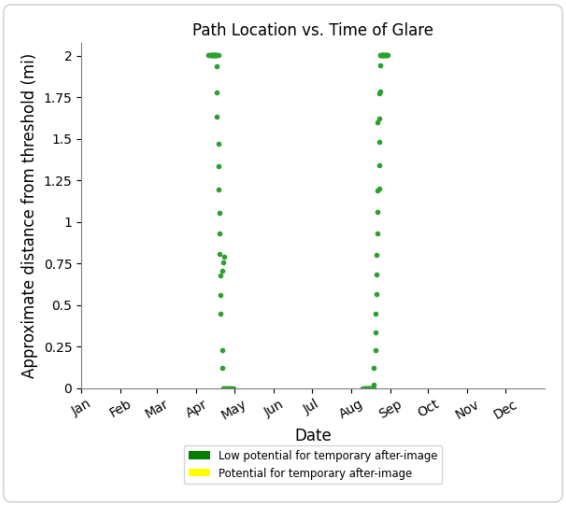












PV06 and FP: PMD22

No glare found

PV06 and FP: PMD25

No glare found

PV06 and FP: PMD252

No glare found

PV06 and OP 1

No glare found

PV06 and OP 2

No glare found

PV06 and OP 3

No glare found

PV06 and OP 4

No glare found

PV06 and OP 5

No glare found

PV06 and OP 6

No glare found

PV06 and OP 7

No glare found

PV06 and OP 8

No glare found

PV06 and OP 9

No glare found

PV06 and OP 10

No glare found

PV06 and OP 11

No glare found

PV06 and OP 12

No glare found

PV06 and OP 13

No glare found

PV06 and OP 14

No glare found

PV06 and OP 15

No glare found

PV06 and OP 16

No glare found

PV06 and OP 17

No glare found

PV06 and OP 18

No glare found

PV06 and OP 19

No glare found

PV06 and OP 20

No glare found

PV06 and OP 21

No glare found

PV06 and 22-ATCT

No glare found

Assumptions

"Green" glare is glare with low potential to cause an after-image (flash blindness) when observed prior to a typical blink response time.
"Yellow" glare is glare with potential to cause an after-image (flash blindness) when observed prior to a typical blink response time.
Times associated with glare are denoted in Standard time. For Daylight Savings, add one hour.
The algorithm does not rigorously represent the detailed geometry of a system; detailed features such as gaps between modules, variable height of the PV array, and support structures may impact actual glare results. However, we have validated our models against several systems, including a PV array causing glare to the air-traffic control tower at Manchester-Boston Regional Airport and several sites in Albuquerque, and the tool accurately predicted the occurrence and intensity of glare at different times and days of the year.
Several V1 calculations utilize the PV array centroid, rather than the actual glare spot location, due to algorithm limitations. This may affect results for large PV footprints. Additional analyses of array sub-sections can provide additional information on expected glare. This primarily affects V1 analyses of path receptors.
Random number computations are utilized by various steps of the annual hazard analysis algorithm. Predicted minutes of glare can vary between runs as a result. This limitation primarily affects analyses of Observation Point receptors, including ATCTs. Note that the SGHAT/ ForgeSolar methodology has always relied on an analytical, qualitative approach to accurately determine the overall hazard (i.e. green vs. yellow) of expected glare on an annual basis.
The analysis does not automatically consider obstacles (either man-made or natural) between the observation points and the prescribed solar installation that may obstruct observed glare, such as trees, hills, buildings, etc.
The subtended source angle (glare spot size) is constrained by the PV array footprint size. Partitioning large arrays into smaller sections will reduce the maximum potential subtended angle, potentially impacting results if actual glare spots are larger than the sub-array size. Additional analyses of the combined area of adjacent sub-arrays can provide more information on potential glare hazards. (See previous point on related limitations.)
The variable direct normal irradiance (DNI) feature (if selected) scales the user-prescribed peak DNI using a typical clear-day irradiance profile. This profile has a lower DNI in the mornings and evenings and a maximum at solar noon. The scaling uses a clear-day irradiance profile based on a normalized time relative to sunrise, solar noon, and sunset, which are prescribed by a sun-position algorithm and the latitude and longitude obtained from Google maps. The actual DNI on any given day can be affected by cloud cover, atmospheric attenuation, and other environmental factors.
The ocular hazard predicted by the tool depends on a number of environmental, optical, and human factors, which can be uncertain. We provide input fields and typical ranges of values for these factors so that the user can vary these parameters to see if they have an impact on the results. The speed of SGHAT allows expedited sensitivity and parametric analyses.
The system output calculation is a DNI-based approximation that assumes clear, sunny skies year-round. It should not be used in place of more rigorous modeling methods.
Hazard zone boundaries shown in the Glare Hazard plot are an approximation and visual aid based on aggregated research data. Actual ocular impact outcomes encompass a continuous, not discrete, spectrum.
Glare locations displayed on receptor plots are approximate. Actual glare-spot locations may differ.
Refer to the Help page at **www.forgesolar.com/help/** for assumptions and limitations not listed here.

Default glare analysis parameters and observer eye characteristics (for reference only):

- Analysis time interval: 1 minute
- Ocular transmission coefficient: 0.5
- Pupil diameter: 0.002 meters
- Eye focal length: 0.017 meters
- Sun subtended angle: 9.3 milliradians

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Appendix B

Air Quality and Greenhouse Gas Technical Memorandum

DRAFT

MEMORANDUM

To:	County of Los Angeles
From:	Ames Noll, Air Resources Specialist, Dudek
Subject:	Pronghorn Solar and Storage Project Air Quality and Greenhouse Gas Technical Memorandum
Date:	September 11, 2025
cc:	Erin Phillips, Project Manager, Dudek Adam Poll, Senior Air Resources Specialist, Dudek
Attachment(s):	Attachment A, CalEEMod Emissions Output Attachment B, Health Risk Assessment Outputs

Dudek is pleased to submit this air quality and greenhouse gas (GHG) emissions assessment to assist Pronghorn Solar Plus, LLC (applicant) with initial environmental planning requirements for the Pronghorn Solar and Storage Project (project).

This memorandum estimates criteria air pollutant and GHG emissions and evaluates potential impacts from construction and operation of the project in accordance with the California Environmental Quality Act (CEQA) Guidelines.

The contents and organization of this memorandum are as follows:

- Section 1, Project Description
- Section 2, General Analysis and Methodology
- Section 3, Air Quality Assessment
- Section 4, Greenhouse Gas Emissions Assessment
- Section 5, Conclusions
- Section 6, References Cited

1 Project Description

Pronghorn Solar Plus, LLC is proposing to construct and operate the Pronghorn Solar and Storage Project (project), a utility-scale photovoltaic (PV) solar energy generation and battery energy storage system (BESS) within unincorporated Los Angeles County, California in the Antelope Valley.

The project will have up to a 50-megawatt (MW) PV solar power capacity, and the associated BESS will have up to a 50 MW power capacity. The project will include construction of collection lines and a project substation, which will connect the project to the existing Southern California Edison (SCE) Piute Substation. A generation transmission (gen-tie) line will directly connect the project substation to the existing SCE Piute Substation.

The project site is located near the intersection of 90th Street East and East Avenue L, approximately 10 miles east of State Route 14, in unincorporated Los Angeles County in the Antelope Valley. The site is composed of Assessor's Parcel Numbers 3378-003-001, 3378-004-008, 3376-006-012, and 3376-011-035.

The topography of the project area is relatively flat, consisting primarily of fields and roads. The PV facility parcels have been extensively cleared, plowed, and maintained for agricultural production. The BESS facility parcel is undeveloped land, and the Project substation parcel is developed with existing structures.

The proposed project would use photovoltaic panels or modules (including but not limited to concentrated photovoltaic technology) on mounting frameworks to convert sunlight directly into electricity. Individual panels would be installed on either fixed-tilt or tracker mount systems (single- or dual-axis, using steel or aluminum). If the panels are configured for fixed tilt, the panels would be oriented toward the south. For tracking configurations, the panels would rotate to follow the sun over the course of the day. Although the panels could stand up to 15 feet high, depending on the mounting system used, panels are expected to remain between 6 and 8 feet high.

2 General Analysis and Methodology

2.1 Construction

Emissions from the construction phase of the proposed project were estimated using the California Emissions Estimator Model (CalEEMod) Version 2022.1.1.29 (CAPCOA 2022).

For the purposes of modeling, it was assumed that construction of the proposed project would commence in June 2026[1] and would last approximately 12 months, ending in May 2027. The project is assumed to have a 30-year lifespan and at the end of operation will be decommissioned in 2057. However, the EMFAC and OFFROAD models in CalEEMod only have emission factors through 2050. As such, the year 2050 was assumed for estimating emissions from the Decommissioning and Reclamation phase. The analysis contained herein is based on the following schedule assumptions (duration of phases is approximate):

- Site Preparation, Fencing, and Ingress/Egress: 6/3/2026 – 9/15/2026 (75 days)
- Civil Improvements – Grading/Roads/Earthwork: 7/1/2026 – 11/3/2026 (90 days)
- PV Panel and BESS Construction: 9/22/2026 – 5/31/2027 (180 days)
- Testing and Commissioning: 3/30/2027 – 5/31/2027 (45 days)
- Decommissioning and Reclamation: 1/1/2057 – 9/9/2057 (180 days)

The majority of the phases listed above would occur concurrently and would not occur sequentially in isolation. The estimated construction duration was provided by the applicant. Detailed construction equipment modeling assumptions are provided in Attachment A, CalEEMod Emissions Outputs.

[1] The analysis assumes a construction start date of June 2026, which represents the earliest date construction would initiate. Assuming the earliest start date for construction represents the worst-case scenario for criteria air pollutant emissions because equipment and vehicle emission factors for later years would be slightly less due to more stringent standards for in-use off-road equipment and heavy-duty trucks, as well as fleet turnover replacing older equipment and vehicles in later years.

The construction equipment mix used for estimating the construction emissions of the proposed project is based on information provided by the project applicant and is shown in Table 1.

Table 1. Construction Scenario Assumptions

Construction Phase	One-Way Vehicle Trips			Equipment		
	Average Daily Worker Trips	Average Daily Vendor Truck Trips	Average Daily Haul Truck Trips	Equipment Type	Quantity	Daily Usage Hours
Site Preparation, Fencing, and Ingress/Egress	40	20	0	Crawler Tractors	1	5
				Graders	1	6
				Off-Highway Trucks	1	7
				Plate Compactors	1	4
				Rubber-Tired Loaders	1	8
				Scrapers	1	4
Civil Improvements – Grading/Roads/ Earthwork	80	16	104	Crawler Tractors	1	8
				Graders	1	6
				Off-Highway Trucks	1	7
				Plate Compactors	1	4
				Rubber-Tired Loaders	2	5
				Scrapers	1	4
PV Panel and BESS Construction	200	16	4	Air Compressors	1	8
				Crawler Tractors	1	4
				Generator Sets	2	8
				Other Construction Equipment	1	2
				Rough Terrain Forklifts	2	5
				Rubber-Tired Loaders	2	5
				Trenchers	2	5
				Vibratory Post Drivers	1	4
Testing and Commissioning	30	8	0	N/A	N/A	N/A
Decommissioning and Reclamation	200	16	6	Air Compressors	1	8
				Crawler Tractors	1	4
				Generator Sets	2	8
				Other Construction Equipment	1	2
				Rough Terrain Forklifts	2	5
				Rubber-Tired Loaders	2	5
				Trenchers	2	5
				Vibratory Post Drivers	1	4

Notes: N/A = not applicable.

See Attachment A for details.

For the analysis, it was assumed that heavy construction equipment would be operating 5 days per week (22 days per month) during proposed project construction. Construction worker trips and vendor truck (i.e., delivery trucks) trips were provided by the applicant. During the Civil Improvements – Grading/Roads/Earthwork phase, approximately 74,810 cubic yards of soils would be exported, resulting in an average of 104 daily one-way haul truck trips. During the PV Panel and BESS Construction phase, there would be an average of 4 daily one-way haul truck trips for the delivery of the PV panels. The panels are expected to be delivered from Lathrop, California. The trip distance in this phase was assumed to be 51 miles, which is the approximate distance from the project site to the edge of the AVAQMD jurisdiction. Vendor and haul truck trips were also added as on-site trucks with a trip length of 0.25 miles to account for fugitive dust on-site. During the Decommissioning and Reclamation phase, there would be an average of 6 daily one-way haul truck trips. The equipment type, quantity, and daily usage during construction was provided by the applicant.

The project would be required to comply with the Antelope Valley Air Quality Management District (AVAQMD) Rule 403 to control dust emissions generated during any dust-generating activities. Rule 403 requires water or chemical/organic stabilizers/suppressants sufficient to limit visible dust emissions to 20 percent opacity. Standard construction practices that would be employed to reduce fugitive dust emissions and comply with Rule 403 include watering of the active dust areas two times per day, with additional watering depending on weather conditions.

A detailed depiction of the construction schedule—including information regarding phases and equipment used during each phase—is included in Attachment A of this report. The information contained in Attachment A was used as CalEEMod model inputs.

2.1.1 Health Risk Assessment

A construction health risk assessment (HRA) was performed to evaluate potential health risk associated with construction of the project. The following discussion summarizes the dispersion modeling and HRA methodology; supporting construction HRA documentation, including detailed assumptions, is presented in Attachment B, Health Risk Assessment Outputs.

For risk assessment purposes, PM_{10} in diesel exhaust is considered diesel particulate matter (DPM), originating mainly from off-road equipment operating at a defined location for a given length of time at a given distance from sensitive receptors. Less-intensive, more-dispersed emissions result from on-road vehicle exhaust (e.g., heavy-duty diesel trucks). For the construction HRA, the CalEEMod scenario for the project was adjusted to reduce diesel truck one-way trip distances to 3.25 miles to estimate emissions from truck pass-by at proximate receptors. In addition, DPM from on-site trucks traveling around the site was also modeled assuming a one-way trip distance of 0.25 miles.

The air dispersion modeling methodology was based on the generally accepted modeling practices of the AVAQMD (AVAQMD 2016). Air dispersion modeling was performed using the U.S. Environmental Protection Agency's American Meteorological Society/Environmental Protection Agency Regulatory Model (AERMOD) Version 24142 modeling system (computer software) with the Lakes Environmental Software implementation/user interface, AERMOD View Version 13.0.0. The HRA followed the Office of Environmental Health Hazard Assessment 2015 guidelines (OEHHA 2015) to calculate the health risk impacts at all proximate receptors as further discussed below. The dispersion modeling included the use of standard regulatory default options. AERMOD parameters were

selected consistent with OEHHA and the U.S. Environmental Protection Agency guidance and identified as representative of the project site activities. Principal AERMOD parameters of this modeling are presented in Table 2.

Table 2. AERMOD Principal Parameters – Construction Health Risk Assessment

Parameter	Details
Meteorological Data	The latest 5-year meteorological data (2016-2020) for the Palmdale Regional Airport station (KPMD) were obtained from CARB and used in the analysis as the most representative data set, based on surrounding terrain and proximity to the project.
Urban versus Rural Option	Urban areas typically have more surface roughness, as well as structures and low-albedo surfaces that absorb more sunlight—and thus more heat—relative to rural areas. Based on the land use procedure from 4.4.1 of the OEHHA Guidance Manual, the rural dispersion was appropriate for the project site (OEHHA 2015).
Terrain Characteristics	The terrain in the vicinity of the modeled project site is generally flat. The elevation of the modeled site is 769.2 meters above sea level.
Elevation Data	Digital elevation model files were imported into AERMOD so that complex terrain features were evaluated as appropriate, and elevations were assigned to the emission sources and receptors. Digital elevation data were obtained through AERMOD View in the U.S. Geological Survey's National Elevation Dataset format with an approximately 1 arc-second resolution.
Emission Sources	Air dispersion modeling of DPM from construction equipment and on-site trucks was conducted using exhaust particulate matter emissions estimated from CalEEMod. The project area was modeled as 4 line-volume sources. Air dispersion modeling of DPM from off-site vendor and haul truck pass-by was conducted using exhaust particulate matter emissions estimated from CalEEMod. Off-site emissions of truck pass-by were modeled as 2 line-volume sources, assuming a 3.25-mile total travel distance.
Source Release Characterizations	Based on SCAQMD methodology, the modeled line volume source would result in a release height of 5 meters, a plume height of 10 meters, and a plume width of 10 meters for off-road equipment and diesel trucks (SCAQMD 2008).
Receptors	104 discrete receptors were placed over residences in close proximity to all sides of the project site.

Source: OEHHA 2015; SCAQMD 2008. See Attachment B for complete model parameter inputs and outputs.
Notes: AERMOD = American Meteorological Society/EPA Regulatory Model; CARB = California Air Resources Board; OEHHA = Office of Environmental Health Hazard Assessment; DPM = diesel particulate matter; EPA = Environmental Protection Agency; CalEEMod = California Emissions Estimator Model.

Dispersion model plot files from AERMOD were then imported into CARB's Hotspots Analysis and Reporting Program Version 2 (Version 22118) (HARP2) to determine health risk, which requires peak 1-hour emission rates and annual emission rates for all pollutants for each modeling source.

AERMOD was run with each source group emitting unit emissions (1 gram per second) to obtain the necessary input values for HARP2. The line of volume sources was partitioned evenly based on the 1 gram per second emission rate. The ground-level concentration plot files were then used to estimate the long-term cancer health risk to an individual, and the noncancerous chronic health indices. There is no reference exposure level for acute health impacts from diesel particulate matter, and, thus, acute risk was not evaluated.

Cancer risk is defined as the increase in probability (chance) of an individual developing cancer due to exposure to a carcinogenic compound, typically expressed as the increased chances in one million. Maximum Individual Cancer Risk is the estimated probability of a maximally exposed individual potentially contracting cancer as a result of exposure to toxic air contaminants (TACs) over a period of 30 years for residential receptor locations. For the construction HRA, the TAC exposure period was assumed to be from third trimester of pregnancy for 1 year for all receptor locations (i.e., the approximate duration of project construction). The exposure pathway for diesel particulate matter is inhalation only.

2.2 Operation

Area Sources

CalEEMod was used to estimate operational emissions from area sources, including emissions from consumer product use and landscaping.

Landscape maintenance includes fuel combustion emissions from equipment such as lawn mowers, rototillers, shredders/grinders, blowers, trimmers, chainsaws, and hedge trimmers. The emissions associated from landscape equipment use are estimated based on CalEEMod default values for emission factors (grams per square foot of building space per day) and number of summer days (when landscape maintenance would generally be performed) and winter days.

During operations and maintenance, one of the main sources of GHG emissions would be fugitive emissions from equipment containing sulfur hexafluoride (SF_6) gas installed at the proposed collector substation. SF_6 has a global warming potential (GWP) of 23,900 using CO_2 at a reference value of 1 (IPCC 2007). The substation would include 66 kV breakers that would contain SF_6 gas. It is estimated that the project would maintain a total of 65 pounds of SF_6 gas at the substation. Although leakage is unlikely, for the purposes of the project's emissions inventory, it was assumed that the breakers would have a maximum annual leak rate of 0.5% in accordance with the Institute of Electrical and Electronics Engineers PC37.122 – Standard for High Voltage Gas-Insulated Substations Rated Above 52 kV (IEEE 2018). Emissions from SF_6 gas are included as part of area source emissions.

Energy Sources

As represented in CalEEMod, energy sources include emissions associated with building electricity and natural gas usage. Electricity use would contribute indirectly to criteria air pollutant emissions; however, the emissions from electricity use are only quantified for GHGs in CalEEMod, since criteria pollutant emissions occur at the site of the power plant, which is typically off site. The project would not use natural gas, and any auxiliary energy use from the project would be generated by solar power, which has zero emissions.

Mobile Sources

Following the completion of construction activities, the project would generate criteria pollutant emissions from mobile sources (vehicular traffic) as a result of the periodic maintenance of the project. The unmanned project would not require routine or daily permanent operational staff. The project is not anticipated to conduct regular (i.e. daily or weekly) maintenance activities. CalEEMod was used to estimate emissions from proposed vehicular sources (refer to Attachment A). CalEEMod default data, including temperature, trip characteristics, variable start information, and emissions factors, were conservatively used for the model inputs. Project-related traffic was

assumed to include a mixture of vehicles: 25% LDA (light-duty automobiles), 25% LDT1 (light-duty trucks), and 50% HHDT (heavy-heavy-duty trucks). Emission factors representing the vehicle mix and emissions for 2026 were used to estimate emissions associated with vehicular sources.

Off-Road Sources

During irregular maintenance, the project may require the movement or replacement of battery enclosures during the lifetime of the project. As such, the use of a crane was assumed to assist the lifting and movement of the BESS containers. CalEEMod was used to estimate emissions of the crane assuming 1 day of operation every year.

Solid Waste

The project would generate solid waste, and therefore, result in CO_2e emissions associated with landfill off-gassing. CalEEMod default values for solid waste generation were used to estimate GHG emissions associated with solid waste.

Water and Wastewater

The project is not expected to require more than 1 acre-foot of water per year for panel washing and landscaping. Water would be obtained from an on-site well. Water consumption estimates for landscaping were estimated using CalEEMod default values.

3 Air Quality Assessment

The project is located within the Mojave Desert Air Basin (MDAB) and is within the jurisdictional boundaries of the Antelope Valley Air Quality Management District (AVAQMD), which has jurisdiction over northern Los Angeles County where the project is located. Criteria air pollutants are defined as pollutants for which the federal and state governments have established ambient air quality standards, or criteria, for outdoor concentrations to protect public health. Criteria air pollutants that are evaluated include VOCs (also referred to as ROCs), oxides of nitrogen (NO_x), carbon monoxide (CO), sulfur oxides (SO_x), particulate matter with an aerodynamic diameter less than or equal to 10 microns in size (coarse particulate matter, or PM_{10}), and particulate matter with an aerodynamic diameter less than or equal to 2.5 microns in size (fine particulate matter, or $PM_{2.5}$). ROCs and NO_x are important because they are precursors to ozone (O_3).

3.1 Thresholds of Significance

The State of California has developed guidelines to address the significance of air quality impacts based on Appendix G of the CEQA Guidelines (14 CCR 15000 et seq.), which provides guidance that a project would have a significant environmental impact if it would:

1. Conflict with or obstruct implementation of the applicable air quality plan.
2. Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under an applicable federal or state ambient air quality standard.

3. Expose sensitive receptors to substantial pollutant concentrations.
4. Result in other emissions (such as those leading to odors) adversely affecting a substantial number of people.

In addition, Appendix G of the CEQA Guidelines indicates that where available, the significance criteria established by the applicable air district may be relied upon to determine whether the project would have a significant impact on air quality. The AVAQMD has prepared criteria and thresholds for determining significance under CEQA.

Appendix G of the CEQA Guidelines indicates that, where available, the significance criteria established by the applicable air quality management district or pollution control district may be relied upon to determine whether the project would have a significant impact on air quality. As outlined in the AVAQMD *CEQA Air and Federal Conformity Guidelines* (CEQA Air Guidelines) (AVAQMD 2016), a project would result in a significant environmental impact if it:

1. Would generate total emissions (direct and indirect) in excess of the established significance thresholds (presented as Table 3)
2. Would generate a violation of any ambient air quality standard when added to the local background
3. Does not conform with the applicable attainment or maintenance plan[2]
4. Would expose sensitive receptors to substantial pollutant concentrations, including those resulting in a cancer risk greater than or equal to 10 in a million and/or a hazard index (non-cancerous) greater than or equal to 1

The AVAQMD's *California Environmental Quality Act (CEQA) and Federal Conformity Guidelines* (AVAQMD 2016) sets forth quantitative emission significance thresholds for criteria air pollutants, which, if exceeded, would indicate the potential for a project to contribute to violations of the National Ambient Air Quality Standards (NAAQS) or California Ambient Air Quality Standards (CAAQS). Table 3 lists the AVAQMD Air Quality Significance Thresholds (AVAQMD 2016).

Table 3. Antelope Valley Air Quality Management District Thresholds of Significance

Criteria Pollutant	Daily Threshold (pounds per day)[a]	Annual Threshold (tons per year)
Volatile Organic Compounds (VOC)	137	25
Oxides of Nitrogen (NO_x)	137	25
Carbon Monoxide (CO)	548	100
Oxides of Sulfur (SO_x)	137	25
Particulate Matter (PM_{10})	82	15
Particulate Matter ($PM_{2.5}$)	65	12

Source: AVAQMD 2016.
Notes: VOC = volatile organic compounds; NO_x = oxides of nitrogen; CO = carbon monoxide; SO_x = sulfur oxides; PM_{10} = coarse particulate matter; $PM_{2.5}$ = fine particulate matter.

[2] A project is deemed to not exceed this threshold, and hence not be significant, if it is consistent with the existing land use plan. Zoning changes, specific plans, general plan amendments and similar land use plan changes which do not increase dwelling unit density, do not increase vehicle trips, and do not increase vehicle miles traveled are also deemed to not exceed this threshold (AVAQMD 2016).

[a] The AVAQMD daily thresholds are generally applicable to multi-phased projects with phases shorter than one year and therefore, are primarily used for emissions from construction-related activities. The annual thresholds are generally for projects with emissions that would occur for longer than one year and thus, are generally applied to project-generated operational activities.

3.2 Impact Analysis

3.2.1 Would the Project conflict with or obstruct implementation of the applicable air quality plan?

As previously discussed, the project area is located within the MDAB and subject to the rules and regulations imposed by the AVAQMD. The AVAQMD is the regional agency responsible for the regulation and enforcement of federal, state, and local air pollution control regulations in the Antelope Valley region of the MDAB. The evaluations of the proposed project's potential to conflict with the applicable AVAQMD plans are provided below.

The purpose of a consistency finding with regard to the air quality management and attainment plans is to determine if a project is consistent with the assumptions and objectives of the air quality management and attainment plans and if it would interfere with the region's ability to comply with federal and state air quality standards. The AVAQMD has established criteria for determining consistency with the currently applicable air quality management and attainment plans in their CEQA and Federal Conformity Guidelines (AVAQMD 2016). Per the Guidelines, a project is deemed to conform with applicable attainment or maintenance plans, and hence not be significant, if it is consistent with the existing land use plan. Zoning changes, specific plans, general plan amendments and similar land use plan changes which do not increase dwelling unit density, do not increase vehicle trips, and do not increase vehicle miles traveled are also deemed to not exceed this threshold (AVAQMD 2016).

The AVAQMD primarily uses demographic growth forecasts for various socioeconomic categories (e.g., population, housing, and employment by industry) developed by SCAG for its 2020–2045 RTP/SCS (SCAG 2020). AVAQMD used this document, which includes land use assumptions from general plans for cities and counties in the MDAB, to develop the emissions inventory in its air quality management and attainment plans. The SCAG RTP/SCS and associated Regional Growth Forecast are generally consistent with the local plans; therefore, the AVAQMD's air quality management and attainment plans are generally consistent with local government plans. It is important to note that, while the more recent SCAG 2024 RTP/SCS was approved in April 2024, this project uses the 2020 RTP/SCS as a reference for air quality impact analysis because it provides consistency with the relevant AVAQMD's air quality management and attainment plans.

The project site is currently zoned as A-2-2, Heavy Agriculture, which allows utility-scale solar energy facilities with approval of a Conditional Use Permit. The project site is designated "Rural Land 10" according to the Los Angeles County Antelope Valley Area Plan: Town & Country. The proposed project is consistent with the applicable County plans for the project site and would be designed in compliance with applicable regulations and conditions pertaining to renewable facilities. Therefore, the project is consistent with the existing land use plan and would not require a general plan amendment or zoning designation change. The project would result in a small increase in employment as a result of intermittent maintenance required, but it is expected that the project would not require routine permanent operational staff. However, this net increase in employees represents a negligible increase in employment compared to the SCAG forecast for the unincorporated portion of Los Angeles County, which forecasts an increase in employment of 50,900 jobs between 2020 and 2040. As such, since the project is consistent with the land use plan and is not anticipated to result in growth that would conflict with projections, it would not conflict

with or exceed the assumptions in the AVAQMD's air quality management and attainment plans, and impacts would be less than significant.

3.2.2 Would the Project result in a cumulatively considerable net increase of any criteria pollutant for which the project region is nonattainment under an applicable federal or state ambient air quality standard?

Air pollution is largely a cumulative impact. The nonattainment status of regional pollutants is a result of past and present development, and AVAQMD develops and implements plans for future attainment of ambient air quality standards. Based on these considerations, project-level thresholds of significance for criteria pollutants are relevant in the determination of whether a project's individual emissions would have a cumulatively significant impact on air quality.

Construction Emissions

Proposed construction activities would result in the temporary addition of pollutants to the local airshed caused by on-site sources (i.e., off-road construction equipment, soil disturbance, and VOC off-gassing) and off-site sources (i.e., on-road vendor trucks and worker vehicle trips). Construction emissions can vary substantially from day to day, depending on the level of activity; the specific type of operation; and, for particulate matter, the prevailing weather conditions. Therefore, such emission levels can only be approximately estimated.

CalEEMod Version 2022.1.1.29 was used to estimate emissions from construction of the project. Internal combustion engines used by construction equipment, trucks, and worker vehicles would result in emissions of VOCs, NO_x, CO, PM_{10}, and $PM_{2.5}$. PM_{10} and $PM_{2.5}$ emissions would also be generated by entrained dust, which results from the exposure of earth surfaces to wind from the direct disturbance and movement of soil. The project would be required to comply with AVAQMD Rule 403 to control dust emissions generated during any dust-generating activities. Standard mitigation measures that would be employed to reduce fugitive dust emissions include watering of the active dust areas two times per day, with additional watering depending on weather conditions. The CalEEMod default assumptions were used for estimating fugitive dust emissions from grading on site. Table 4 presents the estimated maximum daily construction emissions generated during construction of the project. Details of the emission calculations are provided in Attachment A.

Table 4. Estimated Maximum Daily Construction Criteria Air Pollutant Emissions

Year	VOC	NO_x	CO	SO_x	PM_{10}	$PM_{2.5}$
	Pounds per Day					
Summer						
2026	4.60	33.13	58.00	0.12	59.23	7.74
2027	2.43	11.97	34.42	0.03	14.09	2.20
2057	1.10	7.95	20.51	0.03	11.09	1.61
Winter						
2026	4.30	33.86	49.66	0.12	59.23	7.74
2027	2.22	12.17	27.84	0.03	14.09	2.20

Table 4. Estimated Maximum Daily Construction Criteria Air Pollutant Emissions

Year	VOC	NO_x	CO	SO_x	PM_{10}	$PM_{2.5}$
	Pounds per Day					
2057	1.08	8.02	18.28	0.03	11.09	1.61
Maximum	***4.60***	***33.86***	***58.00***	***0.12***	***59.23***	***7.74***
AVAQMD Threshold	*137*	*137*	*548*	*137*	*82*	*65*
Threshold Exceeded?	**No**	**No**	**No**	**No**	**No**	**No**

Notes: VOC = volatile organic compounds; NO_x = oxides of nitrogen; CO = carbon monoxide; SO_x = sulfur oxides; PM_{10} = coarse particulate matter; $PM_{2.5}$ = fine particulate matter; AVAQMD = Antelope Valley Air Quality Management District.
Emissions include compliance with AVAQMD Rule 403.
See Attachment A for complete results.

As shown in Table 4, project construction would not exceed AVAQMD's daily thresholds. Therefore, construction impacts associated with criteria air pollutant emissions would be less than significant.

Operational Emissions

Emissions from the operational phase of the project were estimated using CalEEMod. Operational year 2026 was assumed because it would be the same year following completion of construction. Table 5 presents the emissions during operation.

Table 5. Estimated Maximum Daily Operation Criteria Air Pollutant Emissions

Emissions Source	VOC	NO_x	CO	SO_x	PM_{10}	$PM_{2.5}$
	Pounds per Day					
Summer						
Area	0.02	<0.01	0.02	<0.01	<0.01	<0.01
Energy	0.00	0.00	0.00	0.00	0.00	0.00
Mobile	0.01	0.14	0.21	<0.01	0.81	0.09
Off-Road	0.37	3.28	3.06	0.01	0.13	0.12
Total	*0.39*	*3.42*	*3.29*	*0.01*	*0.94*	*0.22*
Winter						
Area	0.01	N/A	N/A	N/A	N/A	N/A
Energy	0.00	0.00	0.00	0.00	0.00	0.00
Mobile	0.01	0.14	0.15	<0.01	0.81	0.09
Off-Road	0.37	3.28	3.06	0.01	0.13	0.12
Total	*0.39*	*3.42*	*3.21*	*0.01*	*0.94*	*0.22*
Maximum	***0.39***	***3.42***	***3.29***	***0.01***	***0.94***	***0.22***
AVAQMD Threshold	*137*	*137*	*548*	*137*	*82*	*65*
Threshold Exceeded?	**No**	**No**	**No**	**No**	**No**	**No**

Notes: VOC = volatile organic compounds; NO_x = oxides of nitrogen; CO = carbon monoxide; SO_x = sulfur oxides; PM_{10} = coarse particulate matter; $PM_{2.5}$ = fine particulate matter; AVAQMD = Antelope Valley Air Pollution Control District; <0.01 = reported value less than 0.01, N/A = not applicable.
See Attachment A for complete results. Columns may not add due to rounding.

As shown in Table 5, the project would not exceed AVAQMD's significance thresholds during operations. Therefore, operational impacts associated with criteria air pollutant emissions would be less than significant.

In considering cumulative impacts from the project, the analysis must specifically evaluate a project's contribution to the cumulative increase in pollutants for which the MDAB is designated as nonattainment for the CAAQS and NAAQS. If a project's emissions would exceed AVAQMD's significance thresholds, it would be considered to have a cumulatively considerable contribution to nonattainment status in the MDAB. If a project does not exceed thresholds and is determined to have less-than-significant project-specific impacts, it may still contribute to a significant cumulative impact on air quality. The basis for analyzing the project's cumulatively considerable contribution is if the project's contribution accounts for a significant proportion of the cumulative total emissions (i.e., it represents a "cumulatively considerable contribution" to the cumulative air quality impact) and the project's consistency with AVAQMD's air quality management and attainment plans.

The MDAB is designated as a nonattainment area for national and state O_3 standards and state PM_{10} standards, and unclassifiable/attainment for all other criteria air pollutants. The nonattainment status is the result of cumulative emissions from various sources of air pollutants and their precursors within the MDAB, including motor vehicles, off-road equipment, and commercial and industrial facilities. Construction of the project would generate VOC and NO_x emissions (which are precursors to O_3) and emissions of PM_{10}. As indicated in Tables 4 and 5, project-generated construction and operational emissions would not exceed AVAQMD's emissions-based significance thresholds for ROG, NO_x, CO, SO_2, PM_{10}, or $PM_{2.5}$.

Cumulative localized impacts would potentially occur if a construction project were to occur concurrently with another off-site project. Construction schedules for potential future projects near the project site are currently unknown; therefore, potential construction impacts associated with two or more simultaneous projects would be speculative.[3] However, future projects would be subject to CEQA and would require an air quality analysis and, where necessary, mitigation if the project would exceed AVAQMD's significance thresholds. Criteria air pollutant emissions associated with construction activity of future proposed projects would be reduced through implementation of control measures required by AVAQMD. Cumulative PM_{10} and $PM_{2.5}$ emissions would be reduced because all future projects would be subject to AVAQMD Rule 403, which sets forth general and specific requirements for all construction sites in the AVAQMD.

Based on the previous considerations, the project would not result in a cumulatively considerable increase in emissions of nonattainment pollutants, and cumulative impacts would be less than significant.

3.3.3 Would the Project expose sensitive receptors to substantial pollutant concentrations?

Sensitive receptors are those individuals more susceptible to the effects of air pollution than the population at large. People most likely to be affected by air pollution include children, older adults, and people with cardiovascular and chronic respiratory diseases. According to the AVAQMD, sensitive receptors include residences, schools,

[3] The CEQA Guidelines state that if a particular impact is too speculative for evaluation, the agency should note its conclusion and terminate discussion of the impact (14 CCR 15145). This discussion is nonetheless provided in an effort to show good-faith analysis and to comply with CEQA's information disclosure requirements.

daycare centers, playgrounds, and medical facilities (AVAQMD 2016). The closest sensitive receptor is a residence located approximately 80 feet from the project substation boundary.

Carbon Monoxide

Exposure to high concentrations of CO can result in dizziness, fatigue, chest pain, headaches, and impairment of central nervous system functions. Mobile-source impacts, including those related to CO, occur essentially on two scales of motion. Regionally, proposed project related travel would add to regional trip generation within the local airshed and the MDAB. Although the MDAB is currently an attainment area for CO, there is a potential for the formation of microscale CO "hotspots" to occur immediately around points of congested traffic. Hotspots can form if congested traffic occurs during periods of poor atmospheric ventilation, is composed of a large number of vehicles cold-started and operating at pollution-inefficient speeds, and/or is operating on roadways that are already crowded with non-project related traffic. Because of continued improvement in vehicular emissions at a rate faster than the rate of vehicle growth and/or congestion, the potential for CO hotspots in the project area is steadily decreasing.

CO concentrations at congested intersections are not anticipated to not exceed the 1-hour or 8-hour CO CAAQS unless projected daily traffic would be at least over 100,000 vehicles per day at a given intersection. The proposed project is anticipated to generate an average of 8 trips per week for worker and water trucks. Implementation of the proposed project would result in a minimal regional increase in vehicle trips and vehicle miles traveled. Accordingly, it is not anticipated that the project would result in a new congested intersection or that it would substantially exacerbate conditions at existing congested intersections. Additionally, the proposed project would not result in an increase of intersection volumes to more than 100,000 vehicles per day at any given intersection in the project area. Therefore, a CO hotspot is not anticipated to occur, and potential project-generated impacts associated with CO hotspots would be less than significant.

Toxic Air Contaminants

Sensitive receptors are those individuals more susceptible to the effects of air pollution than the population at large. People most likely to be affected by air pollution include children, the elderly, and people with cardiovascular and chronic respiratory diseases. According to the AVAQMD, sensitive receptors include residences, schools, daycare centers, playgrounds, and medical facilities (AVAQMD 2016). The nearest sensitive-receptor land use is a residence located approximately 80 feet from the project substation boundary.

A substance is considered toxic if it has the potential to cause adverse health effects in humans, including increasing the risk of cancer upon exposure, or acute (immediate) and/or chronic (cumulative) non-cancer health effects. A toxic substance released into the air is considered a toxic air contaminant (TAC). Adverse health effects associated with exposure to TACs may include carcinogenic (i.e., cancer-causing) and noncarcinogenic effects. Noncarcinogenic effects typically affect one or more target organ systems and may be experienced on either short-term (acute) or long-term (chronic) exposure to a given TAC.

TACs are identified by federal and state agencies based on a review of available scientific evidence. In the state of California, TACs are identified through a two-step process that was established in 1983 under the Toxic Air Contaminant Identification and Control Act. This two-step process of risk identification and risk management and reduction was designed to protect residents from the health effects of toxic substances in the air. In addition, the

California Air Toxics "Hot Spots" Information and Assessment Act, Assembly Bill (AB) 2588, was enacted by the legislature in 1987 to address public concern over the release of TACs into the atmosphere.

Examples include certain aromatic and chlorinated hydrocarbons, certain metals, and asbestos. TACs are generated by a number of sources, including stationary sources, such as dry cleaners, gas stations, combustion sources, and laboratories; mobile sources, such as automobiles; and area sources, such as landfills. Adverse health effects associated with exposure to TACs may include carcinogenic (i.e., cancer-causing) and noncarcinogenic effects. Noncarcinogenic effects typically affect one or more target organ systems and may be experienced on either short-term (acute) or long-term (chronic) exposure to a given TAC.

As discussed in Section 2.1.1, Health Risk Assessment, a construction HRA was performed to estimate the Maximum Individual Cancer Risk and the Chronic Hazard Index for proximate sensitive receptors as a result of project construction. Results of the construction HRA are presented in Table 6.

Table 6. Construction Health Risk Assessment Results

Impact Parameter	Units	Project Impact	CEQA Threshold	Level of Significance
Maximum Individual Cancer Risk – Residential	Per Million	0.5	10	Less Than Significant
Chronic Hazard Index – Residential	Index Value	0.0006	1.0	Less Than Significant

Source: SCAQMD 2023.
Note: CEQA = California Environmental Quality Act.
Emissions include compliance with the 2045 CAP.
See Attachment B.

As shown in Table 6, the project would result in cancer and chronic impacts that would not exceed the AVAQMD significance thresholds during construction. Impacts would be less than significant.

During operation, the project's emissions would consist of area source emissions from landscape equipment, employees traveling for intermittent maintenance, and the use of intermittent off-road equipment. Operation of the project would not result in any non-permitted direct emissions (e.g., those from a point source such as diesel generators) that could be a TAC source. As shown in Table 6, the project would result in minimal emissions, including PM_{10}, during operation. Therefore, the project would not result in exposure of sensitive receptors in the vicinity of the project site to substantial TAC concentrations due to either construction or operation, and impacts would be less than significant.

Valley Fever

The project site is located in Los Angeles County, which is a county where valley fever, caused by the fungus *Coccidioides immitis*, is not considered endemic. The fungus is very prevalent in the soils of California's San Joaquin Valley, particularly in Kern County. Kern County is considered a highly endemic county, reporting 2,407 cases of valley fever in 2022, or 264.9 per 100,000 people (CDPH 2024). Rates of valley fever are relatively low in Los Angeles County. The California Department of Public Health reported 1,536 cases of valley fever in 2022 in Los Angeles County, or 15.7 per 100,000 people (CDPH 2024). The ecologic factors that appear to be most conducive to survival and replication of the spores are high summer temperatures, mild winters, sparse rainfall, and alkaline, sandy soils. This fungus lives in the top 2–12 inches of soil; therefore, during soil disturbance, the fungal spores

can be released into the air. The spores are too small to be seen by the naked eye, and there is no reliable way to test the soils for spores (CDPH 2024). Most people who are exposed have no or very mild symptoms; however, in a small percentage of the population, it can generate more serious symptoms of meningitis, pneumonia, or chronic fatigue. Construction workers have increased risk of exposure because their jobs can result in the disturbance of soils where fungal spores are found. Valley fever infection rates are highest in California from June through November, and a risk of valley fever infection exists for construction personnel working on the project in the peak summer and fall months. Valley fever risk from construction-related dust from the project will be partially mitigated by implementation of fugitive dust control measures within AVAQMD Rule 403. Therefore, because valley fever is not endemic to the project site and fugitive dust will be limited in accordance with AVAQMD Rule 403, impacts to construction workers and nearby sensitive receptors would be less than significant.

Health Impacts of Criteria Air Pollutants

Construction of the project would generate criteria air pollutant emissions; however, the project would not exceed the AVAQMD mass-emission thresholds.

The MDAB is designated as nonattainment for O_3 for the NAAQS and CAAQS. Thus, existing O_3 levels in the MDAB are at unhealthy levels during certain periods. The health effects associated with O_3 generally relate to reduced lung function. Because the project would not involve construction activities that would result in O_3 precursor emissions (VOC or NO_x) that would exceed the AVAQMD thresholds, the project is not anticipated to substantially contribute to regional O_3 concentrations and associated health impacts. Similar to construction, no AVAQMD threshold would be exceeded during operation.

In addition to O_3, NO_x emissions contribute to potential exceedances of the NAAQS and CAAQS for nitrogen dioxide (NO_2) (since NO_2 is a constituent of NO_x). Exposure to NO_2 can cause lung irritation, bronchitis, and pneumonia, and lower resistance to respiratory infections. As depicted in Tables 4 and 5, project construction and operation would not exceed the AVAQMD thresholds for NO_x. Thus, construction and operation of the project are not expected to exceed the NO_2 standards or contribute to associated health effects.

CO tends to be a localized impact associated with congested intersections. CO competes with oxygen, often replacing it in the blood, reducing the blood's ability to transport oxygen to vital organs. The results of excess CO exposure can include dizziness, fatigue, and impairment of central nervous system functions. CO hotspots were discussed previously as a less-than-significant impact. Thus, the project's CO emissions would not contribute to the health effects associated with this pollutant.

The MDAB is designated as nonattainment for PM_{10} under the CAAQS. Particulate matter contains microscopic solids or liquid droplets that are so small that they can get deep into the lungs and cause serious health problems. Particulate matter exposure has been linked to a variety of problems, including premature death in people with heart or lung disease; nonfatal heart attacks; irregular heartbeat; aggravated asthma; decreased lung function; and increased respiratory symptoms, such as irritation of the airways, coughing, or difficulty breathing (EPA 2023). As with O_3 and NO_x, the project would not generate emissions of PM_{10} that would exceed AVAQMD's thresholds. Furthermore, the project would apply all required dust mitigation under AVAQMD Rule 403. Accordingly, the project's PM_{10} emissions are not expected to cause any increase in related regional health effects for these pollutants.

In summary, the project would not result in any potentially significant contribution to local or regional concentrations of nonattainment pollutants and would not result in a significant contribution to the adverse health impacts associated with those pollutants. Impacts would be less than significant.

3.3.4 Would the Project result in other emissions (such as those leading to odors) adversely affecting a substantial number of people?

The occurrence and severity of potential odor impacts depend on numerous factors. The nature, frequency, and intensity of the source; the wind speeds and direction; and the sensitivity of receiving location each contribute to the intensity of the impact. Although offensive odors seldom cause physical harm, they can be annoying and cause distress among the public and generate citizen complaints.

Odors would be potentially generated from vehicles and equipment exhaust emissions during construction of the project. Potential odors produced during construction would be attributable to concentrations of unburned hydrocarbons from tailpipes of construction equipment and asphalt pavement application. Such odors would disperse rapidly from the project site and generally occur at magnitudes that would not affect substantial numbers of people. Therefore, impacts associated with odors during construction would be less than significant.

Land uses and industrial operations associated with odor complaints include agricultural uses, wastewater treatment plants, food-processing plants, chemical plants, composting operations, refineries, landfills, dairies, and fiberglass molding facilities (SCAQMD 1993). Furthermore, the project would be subject to AVAQMD Rule 402, Nuisance, which prohibits the discharge such quantities of air contaminants or other material which cause injury, detriment, nuisance, or annoyance to any considerable number of persons or to the public. The project would not create any new sources of odor during operation. Therefore, project operations would result in an odor impact that is less than significant.

4 Greenhouse Gas Emissions Assessment

GHGs are gases that absorb infrared radiation in the atmosphere. The greenhouse effect is a natural process that contributes to regulating the Earth's temperature. Global climate change concerns are focused on whether human activities are leading to an enhancement of the greenhouse effect. Principal GHGs include CO_2, CH_4, nitrous oxide (N_2O), O_3, and water vapor. If the atmospheric concentrations of GHGs rise, the average temperature of the lower atmosphere will gradually increase. Globally, climate change has the potential to impact numerous environmental resources through uncertain impacts related to future air temperatures and precipitation patterns. Although climate change is driven by global atmospheric conditions, climate change impacts are felt locally. Climate change is already affecting California. Average temperatures have increased, leading to more extreme hot days and fewer cold nights; shifts in the water cycle have been observed, with less winter precipitation falling as snow, and both snowmelt and rainwater running off earlier in the year; sea levels have risen; and wildland fires are becoming more frequent and intense due to dry seasons that start earlier and end later (CAT 2010).

The effect each GHG has on climate change is measured as a combination of the mass of its emissions and the potential of a gas or aerosol to trap heat in the atmosphere, known as its GWP, which varies among GHGs. Total GHG emissions are expressed as a function of how much warming would be caused by the same mass of CO_2. Thus, GHG emissions are typically measured in terms of pounds or tons of CO_2 equivalent (CO_2e). The CO_2e for a gas is

derived by multiplying the mass of the gas by the associated GWP, such that metric tons (MT) of CO_2e = (MT of a GHG) × (GWP of the GHG). CalEEMod assumes that the GWP for CH_4 is 25, which means that emissions of 1 MT of CH_4 are equivalent to emissions of 25 MT of CO_2, and the GWP for N_2O is 298, based on the Intergovernmental Panel on Climate Change's Fourth Assessment Report (IPCC 2007).

4.1 Thresholds of Significance

The significance criteria used to evaluate the project's GHG emissions impacts is based on the recommendations provided in Appendix G of the CEQA Guidelines. For the purposes of this GHG emissions analysis, the project would have a significant environmental impact if it would (14 CCR 15000 et seq.):

1. Generate GHG emissions, either directly or indirectly, that may have a significant impact on the environment?
2. Conflict with an applicable plan, policy, or regulation adopted for the purpose of reducing the emissions of GHGs?

The Appendix G thresholds for GHGs do not prescribe specific methodologies for performing an assessment, do not establish specific thresholds of significance, and do not mandate specific mitigation measures. Rather, the CEQA Guidelines emphasize the lead agency's discretion to determine the appropriate methodologies and thresholds of significance consistent with the manner in which other impact areas are handled in CEQA (CNRA 2009). Additional guidance regarding assessment of GHGs is discussed below.

CEQA Guidelines

With respect to GHG emissions, CEQA Guidelines Section 15064.4(a) states that lead agencies "shall make a good-faith effort, based to the extent possible on scientific and factual data, to describe, calculate or estimate" GHG emissions resulting from a project. The CEQA Guidelines note that an agency has the discretion to either quantify a project's GHG emissions or rely on a "qualitative analysis or performance-based standards" (14 CCR 15064.4[a]). A lead agency may use a "model or methodology" to estimate GHG emissions and has the discretion to select the model or methodology it considers "most appropriate to enable decision makers to intelligently take into account the project's incremental contribution to climate change" (14 CCR 15064.4[c]). The CEQA Guidelines provide that the lead agency should consider the following when determining the significance of impacts from GHG emissions on the environment (14 CCR 15064.4[b]):

1. The extent a project may increase or reduce GHG emissions as compared to the existing environmental setting.
2. Whether the project emissions exceed a threshold of significance that the lead agency determines applies to the project.
3. The extent to which the project complies with regulations or requirements adopted to implement a statewide, regional, or local plan for the reduction or mitigation of GHG emissions.

In addition, the CEQA Guidelines specify that "[w]hen adopting or using thresholds of significance, a lead agency may consider thresholds of significance previously adopted or recommended by other public agencies, or recommended by experts, provided the decision of the lead agency to adopt such thresholds is supported by substantial evidence" (14 CCR 15064.7[c]).

The extent to which a project increases or decreases GHG emissions in the existing environmental setting should be estimated in accordance with Section 15064.4, Determining the Significance of Impacts from Greenhouse Gas Emissions, of the State CEQA Guidelines. The State CEQA Guidelines indicate that when calculating GHG emissions resulting from a project, lead agencies shall make a good-faith effort based on scientific and factual data (Section 15064.4 (a)), and lead agencies have discretion to select the model or methodology deemed most appropriate for enabling decision makers to intelligently assess the project's incremental contribution to climate change (Section 15064.4 (c)).

The State CEQA Guidelines do not indicate an amount of GHG emissions that constitutes a significant impact on the environment. Instead, they authorize the lead agency to consider thresholds of significance previously adopted or recommended by other public agencies or recommended by experts, provided the decision of the lead agency to adopt such thresholds is supported by substantial evidence (State CEQA Guidelines Sections 15064.4(a) and 15064.7(c)).

The Governor's Office of Planning and Research technical advisory titled, CEQA and Climate Change: Addressing Climate Change through California Environmental Quality Act (CEQA) Review, states that "public agencies are encouraged but not required to adopt thresholds of significance for environmental impacts. Even in the absence of clearly defined thresholds for GHG emissions, the law requires that such emissions from CEQA projects must be disclosed and mitigated to the extent feasible whenever the lead agency determines that the project contributes to a significant, cumulative climate change impact" (OPR 2008). Furthermore, the advisory document indicates that "in the absence of regulatory standards for GHG emissions or other scientific data to clearly define what constitutes a 'significant impact,' individual lead agencies may undertake a project-by-project analysis, consistent with available guidance and current CEQA practice" (OPR 2008).

LA County Climate Action Plan

The 2045 Los Angeles County Climate Action Plan (2045 CAP) was adopted in April 2024. The 2045 CAP builds on previous climate action work from the Unincorporated Los Angeles County Community Climate Action Plan 2020 (2020 CCAP), adopted in October 2015 as a subcomponent of the Air Quality Element of the Los Angeles County General Plan. The 2045 CAP is an update to the 2020 CCAP, and it sets new GHG emissions reduction targets beyond the 2020 timeframe that are consistent with state goals, including Assembly Bill (AB) 32, Senate Bill (SB) 32, and Executive Order (EO) B-30-15 (County of Los Angeles 2024). The 2045 CAP includes 25 measures to reduce GHG emissions within the unincorporated portion of Los Angeles County. Those measures are grouped into 5 strategy areas including, Energy Supply, Transportation, Building Energy and Water, Waste, and Agriculture, Forestry and Other Land Use.

The 2045 CAP constitutes a qualified GHG emissions reduction plan under CEQA. Future projects may demonstrate consistency with the 2045 CAP (as a qualified GHG emissions reduction plan) if they are consistent with the General Plan, the 2045 CAP's future growth projections, and the GHG emissions reduction measures. Projects consistent with the CAP would not require additional GHG emissions analysis or mitigation under CEQA Guidelines Section 15183.5(b)(2), provided that the project's environmental document identifies 2045 CAP requirements that are applicable to the project, and, for those requirements that are not binding or enforceable, incorporates these requirements as mitigation measures. The 2045 CAP Consistency Checklist assists with determining project consistency with the 2045 CAP. The 2045 CAP Consistency Checklist provides individual projects the opportunity to demonstrate that they are reducing GHG emissions; it also ensures that future projects facilitated by the 2045

CAP would achieve their proportion of emissions reductions consistent with the assumptions of the 2045 CAP. Project consistency with the 2045 CAP is demonstrated by incorporating the emissions reduction measures included in the 2045 CAP that apply to new projects.

4.2 Impact Analysis

4.2.1 Would the Project generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?

4.2.2 Would the Project conflict with an applicable plan, policy, or regulation adopted for the purpose of reducing the emissions of greenhouse gases?

2045 CAP Consistency

Under the 2045 CAP, the method for determining significance for project-level environmental documents is through the CAP Consistency Checklist, located within Appendix F of the 2045 CAP. Step 1 requires projects to demonstrate consistency with the LA County's General Plan, the existing land use designation of the current Land Use Element, and the 2021 Housing Element Update. As described in Section 3.2.1, the project is consistent with the existing land use designation and would not require a general plan amendment or zoning designation change. Therefore, the project is consistent with LA County's General Plan Land Use Element and Housing Element.

According to Step 2, if the project achieves zero GHG emissions compared to the existing on-site development at the project site, then the project is consistent with the 2045 CAP and no additional analysis is needed. The existing site is assumed to generate zero GHG emissions. However, the project is expected to achieve net negative GHG emissions during operation, and therefore, the project screens out of the 2045 CAP Checklist. Calculations of the project's GHG emissions during construction and operation, as well as the project's avoided GHG emissions over time, are shown below and detailed in Attachment A.

Construction and Decommissioning Emissions

Both construction and decommissioning of the project would result in GHG emissions that are primarily associated with use of off-road construction equipment, on-road vendor and haul trucks, and worker vehicles. SCAQMD recommends that construction emissions be amortized over a 30-year project lifetime; therefore, the total construction GHG emissions were calculated, amortized over 30 years. For conservative purposes, GHG emissions associated with decommissioning have also been amortized and have been added to the operational emissions.

CalEEMod was used to estimate GHG emissions during construction. Construction of the project is anticipated to last up to 12 months. On-site sources of GHG emissions include off-road equipment and on-site trucks, and off-site sources include on-road vehicles (vendor trucks, haul trucks, and worker vehicles). Decommissioning is assumed to last approximately 9 months and includes similar on-site and off-site sources of GHG emissions. Table 7 presents construction and decommissioning GHG emissions for the project.

Table 7. Estimated Annual Construction and Decommissioning GHG Emissions

Year	CO_2	CH_4	N_2O	CO_2e
	Metric Tons			
2026	836.36	0.02	0.06	856.70
2027	295.69	0.01	0.02	300.82
2057	391.37	0.01	0.01	394.72
			Total	1,552.24
			Amortized emissions over 30 years (metric tons per year)	*51.74*

Notes: GHG = greenhouse gas; CO_2 = carbon dioxide; CH_4 = methane; N_2O = nitrous oxide; CO_2e = carbon dioxide equivalent.
See Attachment A for complete results.

As shown in Table 7, the estimated total GHG emissions during construction and decommissioning would be approximately 1,552 MT CO_2e. Estimated project-generated construction emissions amortized over 30 years would be approximately 52 MT CO_2e per year. As with project-generated construction air quality pollutant emissions, GHG emissions generated during construction of the project would be short-term, lasting only for the duration of the construction period, and would not represent a long-term source of GHG emissions.

Operational Emissions

CalEEMod was used to estimate potential project-generated operational GHG emissions from area sources, mobile sources, off-road sources, solid waste, water supply. Emissions from each category are discussed in the following text with respect to the project. For additional details, see Section 2.2 for a discussion of operational emissions calculation methodology and assumptions, specifically for area, energy, mobile, off-road, solid waste, and water sources. Operational year 2027 was assumed as the first full year of operation. Table 8 presents the GHG emissions of the project during operation.

Table 8. Estimated Annual Operational GHG Emissions

Emissions Source	CO_2	CH_4	N_2O	CO_2e
	Metric Tons per Year			
Area	0.01	<0.01	<0.01	3.53
Energy	0.00	0.00	0.00	0.00
Mobile	7.21	<0.01	<0.01	7.51
Waste	0.04	<0.01	0.00	0.15
Water	2.11	<0.01	<0.01	2.22
Off-Road	0.45	<0.01	<0.01	0.45
			Amortized Construction Emissions	*51.74*
			Total	65.60

Notes: GHG = greenhouse gas; CO_2 = carbon dioxide; CH_4 = methane; N_2O = nitrous oxide; CO_2e = carbon dioxide equivalent; <0.01 = reported value less than 0.01.
SF_6 emissions are included in area sources.
See Attachment A for complete results.

As shown in Table 8, the estimated total GHG emissions during operation of the project would be approximately 65 MT CO_2e per year, including amortized construction emissions.

Avoided GHG Emissions

The project would provide a source of renewable energy to achieve the Renewables Portfolio Standard of 60% by 2030 and 100% by 2045, consistent with the renewable energy targets in the Climate Change Scoping Plan (CARB 2008, 2014, 2017, 2022) and required by Senate Bill (SB) 100 and Executive Order (EO) B-55-18. The generation of renewable energy would offset GHG emissions generated by fossil-fuel power plants. As noted above, the project would result in approximately 66 MT CO_2e per year over the life of the project. The project is expected to produce an estimated 70,940 megawatt-hours of electricity per year (NREL 2024). The default CalEEMod CO_2 emissions factor for SCE was 346.2 pounds of CO_2 per megawatt-hour from 2026 (CAPCOA 2022). Assuming that SCE would meet the EO B-55-18 carbon neutrality target in 2045, a linear regression of the SCE GHG emission factor was calculated from 2026 to 2044. This would mean that the project would lower GHG emissions over time. Assuming this, the project would avoid a total of 100,258 MT CO_2 from 2027 through 2044.

Including amortized construction emissions, the project would emit approximately 1,980 MT CO_2 over a 30-year lifetime. Thus, after subtracting avoided GHG emissions from the project's GHG emissions, the project would avoid approximately 98,278 MT CO_2e over its lifetime. Accordingly, including amortized construction emissions, the project would emit approximately 66 MT CO_2e in the first year of operation, but the project also would avoid approximately 10,553 MT CO_2e in the first year of operation. As such, the project would avoid more GHG emissions than it would generate, resulting in a net negative GHG impact. Therefore, the project would comply with Step 2 of the 2045 CAP Checklist and would screen out of Step 3 of the 2045 CAP Checklist. The project is consistent with the 2045 CAP and would have a less significant impact on GHGs.

5 Conclusions

The project is consistent with the land use plan and is not anticipated to result in growth that would conflict with projections, and it would not conflict with or exceed the assumptions in the AVAQMD's air quality management and attainment plans. Criteria air pollutant emissions generated during construction and operation of the project would not exceed AVAQMD's significance thresholds or result in a cumulatively considerable net increase in emissions. Similarly, the project would not create a CO hotspot or expose sensitive receptors to substantial concentrations of TACs. Impacts associated with odors during construction and operation would disperse rapidly and would not adversely affect a substantial number of people. Therefore, the project would result in a less-than-significant impact to air quality.

The project is consistent with LA County's General Plan Land Use Element and Housing Element, and the project would avoid approximately 98,278 MT CO_2e over its lifetime, resulting in a net negative GHG impact. Therefore, the project is consistent with the 2045 CAP and would not conflict with an applicable plan, policy, or regulation adopted for the purpose of reducing the emissions of GHGs. Accordingly, the project would not generate greenhouse gas emissions that would have a significant impact on the environment. Therefore, the project would result in a less-than-significant impact to greenhouse gas emissions.

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Attachment A
CalEEMod Emissions Output

Attachment B

Health Risk Assessment Outputs

Appendix C

Biological Resources Technical Report

DRAFT

Biological Resources Technical Report

Pronghorn Solar and Storage Project

SEPTEMBER 2025

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Acronyms and Abbreviations

Acronym/Abbreviation	Definition
CDFW	California Department of Fish and Wildlife
CEQA	California Environmental Quality Act
CESA	California Endangered Species Act
CNDDB	California Natural Diversity Database
CNPS	California Native Plant Society
CRPR	California Rare Plant Rank
CWA	Clean Water Act
Esri	Environmental Systems Research Institute
FESA	Federal Endangered Species Act
GIS	geographic information system
HCP	habitat conservation plan
IPaC	Information for Planning and Conservation System
ISA	International Society of Arboriculture
NCCP	natural community conservation plan
NPDES	National Pollutant Discharge Elimination System
NRCS	Natural Resources Conservation Service
OHWM	ordinary high water mark
Project	Pronghorn Solar and Storage Project
SSC	California Species of Special Concern
Study Area	Project site plus 500-foot buffer
SWPPP	Storm Water Pollution Prevention Plan
USACE	U.S. Army Corps of Engineers
USDA	U.S. Department of Agriculture
USFWS	U.S. Fish and Wildlife Service
USGS	U.S. Geological Survey

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1 Introduction

This report presents the findings of a biological resources assessment conducted by Dudek for the proposed Pronghorn Solar and Storage Project (Project). The purpose of this assessment was to evaluate the existing biological conditions and potential impacts to sensitive biological resources associated with the proposed Project, including a 100-foot buffer (Study Area). This report is prepared at a level of detail sufficient to address California Environmental Quality Act (CEQA) requirements, specifically the biological thresholds of significance included in Appendix G of the CEQA Guidelines, as well as identifying the potential need for permits for sensitive resources protected under federal and state regulations.

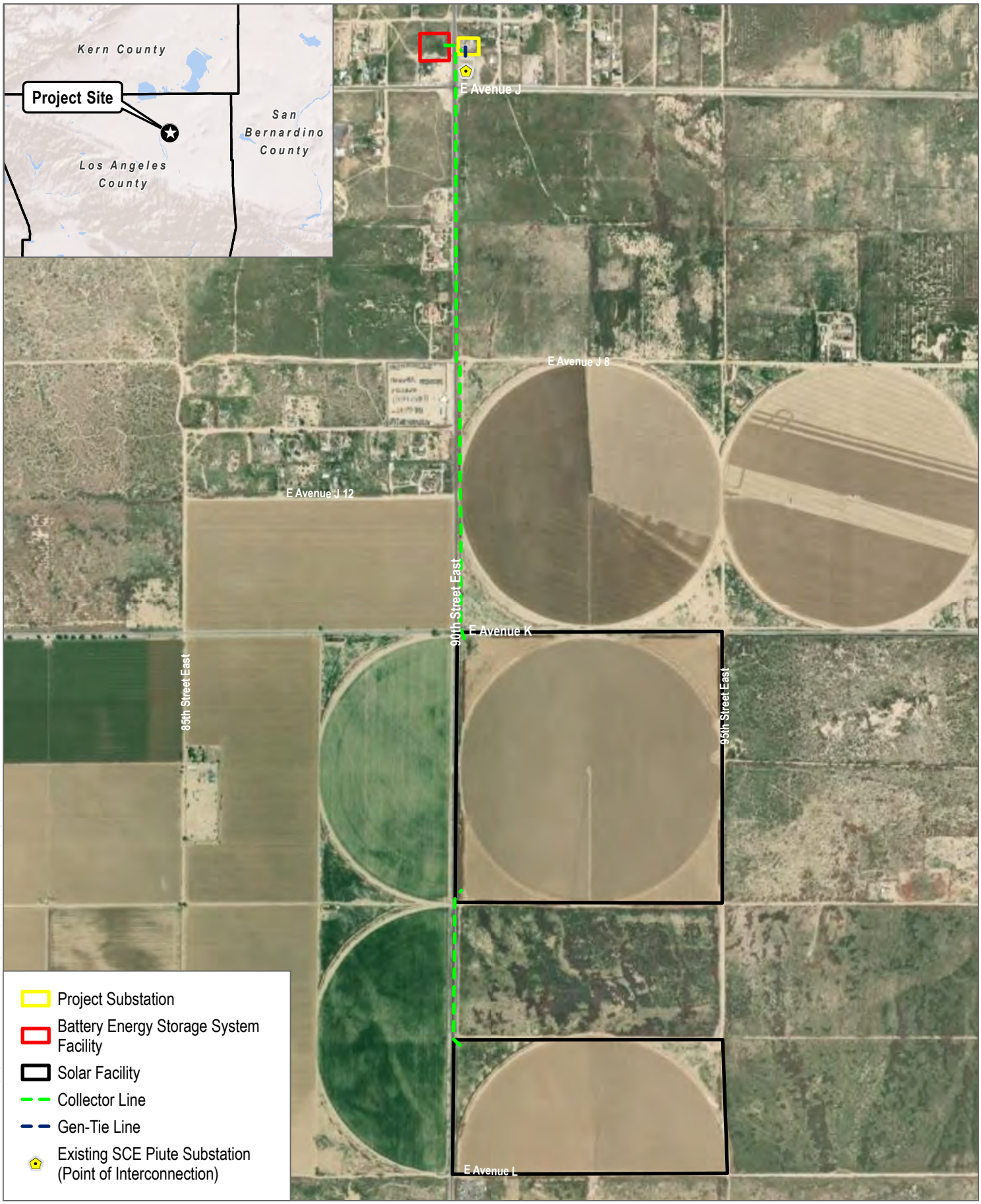
1.1 Project Location

The Project site is located near the intersection of 90th Street East and East Avenue L, approximately 10 miles east of State Route 14, in unincorporated Los Angeles County in the Antelope Valley. The site is composed of Assessor's Parcel Numbers 3378-003-001, 3378-004-008, 3376-006-012, and 3376-011-035, as shown in Figure 1, Project Location. The Project's photovoltaic (PV) facility will be located on APNs 3378-003-001 and 3378-004-008. The Project's battery energy storage system (BESS) facility will be located on APN 3376-006-012 and the Project substation will be located on APN 3376-011-035. The medium voltage collection lines will be located on the western perimeter of APNs 3376-026-026, -027, -028, -029, -030, -031, -032, and -033 which are in the City of Lancaster and the remainder of the PV collection lines will be located via Franchise Agreement within 90th Street East existing road right-of-way. The existing SCE Piute Substation is located on APN 3376-011-800.

1.2 Project Description

Pronghorn Solar Plus, LLC is proposing to construct and operate the Pronghorn Solar and Storage Project (Project), a utility-scale PV solar energy generation and BESS within unincorporated Los Angeles County, California in the Antelope Valley. The Project will include construction of collection lines and a Project substation, which will interconnect the Project to the existing Southern California Edison (SCE) Piute Substation via a generation transmission line. The Project components would be enclosed within a chain link fence measuring up to eight feet in height (from finished grade). The fence installation would occur prior to civil improvements (grading/roads/earthwork) and PV panel and BESS construction. All nighttime lighting installed would be shielded and directed downward to minimize the potential for glare or spillover onto adjacent properties.

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SOURCE: World Imagery

DUDEK

0 500 1,000 Feet

FIGURE 1

Project Location

Pronghorn Solar and Storage Project

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2 Regulatory Context

This section describes the regulatory framework relevant to the Project.

2.1 Federal Regulations

2.1.1 Federal Endangered Species Act

The federal Endangered Species Act (FESA) of 1973 (16 USC 1531 et seq.), as amended, is administered by the U.S. Fish and Wildlife Service (USFWS) for most plant and animal species, and by the National Oceanic and Atmospheric Administration National Marine Fisheries Service for certain marine species. FESA is intended to provide a means to conserve the ecosystems upon which endangered and threatened species depend, and to provide programs for the conservation of those species, thus preventing extinction of plants and wildlife. FESA defines an endangered species as "any species that is in danger of extinction throughout all or a significant portion of its range." A threatened species is defined as "any species that is likely to become an endangered species within the foreseeable future throughout all or a significant portion of its range." Under FESA, it is unlawful to take any listed species; "take" is defined as "harass, harm, pursue, hunt, shoot, wound, kill, trap, capture, or collect, or to attempt to engage in any such conduct."

FESA allows for the issuance of incidental take permits for listed species under Section 7, which is generally available for projects that also require other federal agency permits or other approvals, and under Section 10, which provides for the approval of habitat conservation plans on private property without any other federal agency involvement. Upon development of a habitat conservation plan, USFWS can issue incidental take permits for listed species.

2.1.2 Migratory Bird Treaty Act

The Migratory Bird Treaty Act (MBTA) was originally passed in 1918 as four bilateral treaties, or conventions, for the protection of a shared migratory bird resource. The primary motivation for the international negotiations was to stop the "indiscriminate slaughter" of migratory birds by market hunters and others (16 USC 703–712). Each of the treaties protects selected species of birds and provides for closed and open seasons for hunting game birds. The Migratory Bird Treaty Act protects more than 800 species. Two species of eagles that are native to the United States—bald eagle (*Haliaeetus leucocephalus*) and golden eagle (*Aquila chrysaetos*)—were granted additional protection within the United States under the Bald and Golden Eagle Protection Act (16 USC 668–668d) to prevent these species from becoming extinct.

2.1.3 Clean Water Act

The objective of the Clean Water Act (CWA) is to restore and maintain the chemical, physical, and biological integrity of the nation's waters. Under Section 404 of the CWA, the USACE has the authority to regulate activities that could discharge fill or dredge material or otherwise adversely modify wetlands or other waters of the United States. The USACE implements the federal policy embodied in Executive Order 11990, which, when implemented, is intended to result in no net loss of wetland values or function.

Section 401 of the Clean Water Act

The State Water Resources Control Board has authority over wetlands through Section 401 of the CWA, as well as the Porter–Cologne Act, California Code of Regulations Section 3831(k), and California Wetlands Conservation Policy. The CWA requires that an applicant for a Section 404 permit (to discharge dredge or fill material into waters of the United States) first obtain certification from the appropriate state agency stating that the fill is consistent with the state's water quality standards and criteria. In California, the authority to either grant certification or waive the requirement for permits is delegated by the State Water Resources Control Board to the nine regional boards. The Los Angeles Regional Water Quality Control Board has authority for Section 401 compliance in the project area. A request for certification is submitted to the regional board at the same time that an application is filed with the USACE.

2.2 State Regulations

2.2.1 California Endangered Species Act

The California Endangered Species Act (CESA) (California Fish and Game Code Sections 2050–2068) provides protection and prohibits the take of plant, fish, and wildlife species listed by the State of California. Unlike FESA, under CESA, state-listed plants have the same degree of protection as wildlife, but insects and other invertebrates may not be listed. Take is defined similarly to FESA and is prohibited for both listed and candidate species. Take authorization may be obtained by a project applicant from the California Department of Fish and Wildlife (CDFW) under CESA Section 2081, which allows take of a listed species for educational, scientific, or management purposes. In this case, private developers consult with CDFW to develop a set of measures and standards for managing the listed species, including full mitigation for impacts, funding of mitigation implementation, and monitoring of mitigation measures.

Western Joshua Tree

On October 21, 2019, the California Fish and Game Commission (Commission) received a petition from the Center for Biological Diversity to list western Joshua tree (*Yucca brevifolia*). On November 1, 2019, the Commission referred the petition to CDFW for evaluation. CDFW evaluated the scientific information presented in the petition and other relevant information possessed by CDFW at the time of review and prepared a report for submittal to the Commission (CDFW 2020). The report states that CDFW recommended that the Commission accept the petition for further consideration of western Joshua tree under the CESA. On September 22, 2020, the Commission accepted the candidacy proposal for western Joshua tree, effective October 9, 2020. When a plant or wildlife species is granted candidacy under the CESA, the species is given the same protection as a threatened or endangered species while the Commission evaluates whether formal listing as threatened or endangered under the CESA is warranted.

In listing western Joshua tree as a candidate species under CESA, the Commission directed CDFW staff to evaluate whether the species should be formally listed under CESA. In March 2022, CDFW staff presented its findings to the Commission and recommended against the listing, citing the species widespread distribution and lack of data regarding the extent to which climate changes are expected to affect the species. This information was presented to the Commission on June 15–16, 2022. The Commission voted on the proposed listing at this meeting, but the vote resulted in a 2–2 tie. The Commission discussed western Joshua tree's listing status at its October 12–13, 2022 meeting; however, it was decided at this meeting to extend Joshua tree's candidate status discussion until their February 23, 2023, meeting, which was anticipated to be the final meeting before a listing decision was made.

On July 1, 2023, the Western Joshua Tree Conservation Act (WJTCA) was passed. While western Joshua tree is a candidate species, take for western Joshua tree can be allowed through payment of pre-determined mitigation fees.

The WJTCA introduces a streamlined permitting framework that applies to specific development activities and mandates the collection of mitigation fees. These fees are intended to facilitate the acquisition and preservation of western Joshua tree habitat, as well as to support conservation measures aimed at safeguarding the western Joshua tree. The underlying goal is to counterbalance the adverse impacts on western Joshua trees resulting from authorized projects and to promote species conservation on a landscape scale.

Under the WJTCA, CDFW is authorized to perform the following key functions:

- Issue permits for the trimming and removal of hazardous or deceased western Joshua trees.
- Grant permits for the incidental take of western Joshua trees, contingent upon the fulfillment of specific conditions.
- Establish agreements with counties or cities to delegate limited authority for the issuance of the aforementioned permits, provided that predetermined conditions are met.

Furthermore, the WJTCA instructs CDFW to develop a comprehensive conservation plan for the western Joshua tree by the conclusion of the year 2024.

The WJTCA institutes two categories of mitigation fees: reduced fees and standard fees, depending on the geographical location, as defined in the California Department of Fish and Game Code (Section 1927). It empowers the CDFW to issue permits for the incidental take of one or more western Joshua trees, subject to compliance with stipulated conditions. Permit holders may opt to remit specified fees in lieu of undertaking mitigation activities. Additionally, the WJTCA authorizes the CDFW to issue permits for the removal of deceased western Joshua trees and the trimming of live western Joshua trees under specific circumstances.

Notably, all in-lieu fees collected under the WJTCA are directed to the Western Joshua Tree Conservation Fund, with the explicit purpose of allocation to the CDFW. These funds are designated exclusively for the acquisition, conservation, and management of western Joshua tree conservation lands, as well as the execution of other initiatives designed to safeguard the western Joshua tree.

Permitting

The initial step in the project permitting process necessitates the comprehensive survey and documentation of western Joshua trees located on the Project site as well as within a 50-foot radius surrounding the project area. This census must adhere to precise specifications outlined on the CDFW's official website.

Simultaneously, a permit application, available on the CDFW's website, must be completed. The application mandates that the applicant complies with the California Environmental Quality Act (CEQA). Notably, there are no stipulated statutory deadlines governing the permitting process; however, CDFW is committed to expeditiously processing the applications upon receipt. Upon successful processing of the application by CDFW, the permittee will be issued an invoice for the mandatory mitigation fee. This fee is to be remitted via check or money order, with the invoice securely attached, following the precise instructions provided by CDFW.

2.2.2 California Fish and Game Code

Fully Protected Species

Sections 3505, 3511, 4700, 5050, and 5515 of the California Fish and Game Code outline protections for fully protected species of mammals, birds, reptiles, amphibians, and fish. Species that are fully protected by these sections may not be taken or possessed at any time. CDFW cannot issue permits or licenses that authorize the "take" of any fully protected species, except under certain circumstances, such as scientific research and live capture and relocation of such species pursuant to a permit for the protection of livestock. Furthermore, it is the responsibility of the CDFW to maintain viable populations of all native species. Toward that end, the CDFW has designated certain vertebrate species as Species of Special Concern, because declining population levels, limited ranges, and/or continuing threats have made them vulnerable to extinction.

Section 1600–1616

Under California Fish and Game Code Sections 1600–1616, CDFW has the authority to regulate work that will substantially divert or obstruct the natural flow of, or substantially change or use any material from, the bed, channel, or bank of any river, stream, or lake. CDFW also has the authority to regulate work that will deposit or dispose of debris, waste, or other material containing crumbled, flaked, or ground pavement where it may pass into any river, stream, or lake. This regulation takes the form of a requirement for a Lake or Streambed Alteration Agreement and is applicable to all projects. Applications to CDFW must include a complete, certified CEQA document.

CDFW jurisdiction includes ephemeral, intermittent, and perennial watercourses (including dry washes) and lakes characterized by the presence of definable bed and banks, and existing fish or wildlife resources. CDFW takes jurisdiction to the top of bank of the stream or the limit of the adjacent riparian vegetation, which may include oak woodlands in canyon bottoms. Historical court cases have further extended CDFW jurisdiction to include watercourses that seemingly disappear but reemerge elsewhere. Under the CDFW definition, a watercourse need not exhibit evidence of an ordinary high-water mark (OHWM) to be claimed as jurisdictional. CDFW does not have jurisdiction over ocean or shoreline resources.

California Native Plant Protection Act

The Native Plant Protection Act of 1977 (see Section 1900 et seq. of the California Fish and Game Code) directed CDFW to carry out the Legislature's intent to "preserve, protect and enhance rare and endangered plants in this State." The Native Plant Protection Act gave the Commission the power to designate native plants as "endangered" or "rare" and protect endangered and rare plants from take. CESA expanded on the original Native Plant Protection Act and enhanced legal protection for plants, but the Native Plant Protection Act remains part of the California Fish and Game Code. To align with federal regulations, CESA created the categories of "threatened" and "endangered" species. It converted all "rare" animals into the act as threatened species but did not do so for rare plants. Thus, there are three listing categories for plants in California: rare, threatened, and endangered. Because rare plants are not included in CESA, mitigation measures for impacts to rare plants are specified in a formal agreement between CDFW and the project proponent.

Nesting Birds

Section 3503 of the California Fish and Game Code states that it is unlawful to take, possess, or needlessly destroy the nests or eggs of any bird, except as otherwise provided by this code or any regulation made pursuant thereto. Section 3503.5 protects all birds of prey (raptors) and their eggs and nests. Section 3511 states that fully protected birds or parts thereof may not be taken or possessed at any time. Section 3513 states that it is unlawful to take or possess any migratory non-game bird as designated in the MBTA.

2.2.3 California Native Desert Plant Act

The purpose of the California Desert Native Plants Act is to protect certain species of California desert native plants from unlawful harvesting on both public and privately owned lands. The California Desert Native Plants Act only applies within the boundaries of Imperial, Inyo, Kern, Los Angeles, Mono, Riverside, San Bernardino, and San Diego Counties. Within these counties, the California Desert Native Plants Act prohibits the harvest, transport, sale, or possession of specific native desert plants unless a person has a valid permit or wood receipt, and the required tags and seals. The appropriate permits, tags and seals must be obtained from the county sheriff or commissioner of the county where collecting will occur, and the county will charge a fee. More information on the California Desert Native Plants Act, including the species protected under the law, is available by reading the provisions of the law.

2.2.4 California Environmental Quality Act

CEQA requires identification of a project's potentially significant impacts on biological resources, and ways that such impacts can be avoided, minimized, or mitigated. CEQA also provides guidelines and thresholds for use by lead agencies for evaluating the significance of proposed impacts.

The State of California CEQA Guidelines (CEQA Guidelines) Section 15380(b)(1) defines endangered animals or plants as species or subspecies whose "survival and reproduction in the wild are in immediate jeopardy from one or more causes, including loss of habitat, change in habitat, overexploitation, predation, competition, disease, or other factors." A rare animal or plant is defined in CEQA Guidelines Section 15380(b)(2) as a species that, although not presently threatened with extinction, exists "in such small numbers throughout all or a significant portion of its range that it may become endangered if its environment worsens; or … [t]he species is likely to become endangered within the foreseeable future throughout all or a significant portion of its range and may be considered 'threatened' as that term is used in the federal Endangered Species Act." Additionally, an animal or plant may be presumed to be endangered, rare, or threatened if it meets the criteria for listing, as defined further in CEQA Guidelines Section 15380(c).

CDFW has developed a list of "Special Species" as "a general term that refers to all of the taxa the California Natural Diversity Database (CNDDB) is interested in tracking, regardless of their legal or protection status." This is a broader list than those species that are protected under FESA, CESA, and other California Fish and Game Code provisions, and includes lists developed by other organizations, including, for example, the Audubon Watch List. Guidance documents prepared by other agencies, including the Bureau of Land Management Sensitive Species and USFWS Birds of Special Concern, are also included on this CDFW Special Species list. Additionally, CDFW has concluded that plant species listed as California Rare Plant Rank (CRPR) 1 and 2 by the California Native Plant Society (CNPS), and potentially some CRPR 3 plants, are covered by CEQA Guidelines Section 15380.

Section IV, Appendix G, Environmental Checklist Form, of the CEQA Guidelines requires an evaluation of impacts to "any riparian habitat or other sensitive natural community identified in local or regional plans, policies, regulations or by the CDFW or the USFWS."

Porter–Cologne Water Quality Control Act

Pursuant to provisions of the Porter–Cologne Water Quality Act, the Regional Water Quality Control Board regulates discharging waste, or proposing to discharge waste, within any region that could affect a water of the state (California Water Code, Section 13260[a]). The State Water Resources Control Board defines a water of the state as "any surface water or groundwater, including saline waters, within the boundaries of the state" (California Water Code, Section 13050[e]).

2.3 Local Regulations

2.3.1 Los Angeles County Renewable Energy Ordinance

The Los Angeles County Renewable Energy Ordinance establishes standards, conditions, and procedures that support and facilitate the development of small-scale solar energy systems, utility-scale solar energy facilities, temporary meteorological towers, and small-scale wind energy systems in a manner that protects public health, safety, and welfare and minimizes significant impacts to the environment. The permittee shall retain a biologist to confirm that construction practices are compatible with continued and future vegetation growth.

3 Methods

Data regarding biological resources present within the Study Area were obtained through a review of pertinent literature, field reconnaissance, and a jurisdictional waters delineation.

3.1 Literature Review

The following data sources were reviewed to assist with the assessment of biological resources:

- CDFW California Natural Diversity Database (CNDDB) (CDFW 2025a)
- USFWS Information for Planning and Consultation (IPaC) (USFWS 2025a)
- California Native Plant Society (CNPS) Inventory of Rare and Endangered Plants (Inventory) (CNPS 2025a)
- U.S. Department of Agriculture (USDA) NRCS Web Soil Survey (USDA 2025a)
- CDFW Biogeographic Information and Observation System (CDFW 2025b)

Prior to conducting the field investigation, the CNDDB and CNPS Inventory were queried based on the U.S. Geological Survey (USGS) 7.5-minute topographic quadrangle map for Alpine Butte, California where the Study Area is located, as well as the surrounding eight USGS 7.5-minute quadrangle maps (i.e., Rosamond Lake, Redman, Rogers Lake South, Hi Vista, Lovejoy Buttes, Littlerock, Lancaster East, and Palmdale). The purpose of this review was to determine whether special-status plant and wildlife species are known to occur in the vicinity of or within the Study Area.

Other literature reviewed included A Manual of California Vegetation, Online Edition (CNPS 2025b); the California Natural Community list (CDFW 2025c); State and Federally Listed Endangered, Threatened, and Rare Plants of California (CDFW 2025d); State and Federally Listed Endangered and Threatened Animals of California (CDFW 2025e); and the CDFW California Wildlife Habitat Relationships Life History Accounts and Range Maps (CDFW 2025f). The following available resources were reviewed to assess the potential for jurisdictional waters: aerial photographs (Google Earth 2025; NETR 2025); the USGS Newhall 7.5-minute topographic quadrangle map (USGS 2018); the National Hydrography Dataset and Watershed Boundary Dataset (USGS 2025); and the USFWS National Wetland Inventory (USFWS 2054b).

3.2 General Field Reconnaissance

Dudek Biologists Eilleen Salas and Ryan Stanley conducted a general biological resources survey of the Study Area on February 15, 2024, from 9:00 AM to 1:25 PM. The survey was conducted when weather conditions were favorable, with 20-30% cloud cover, wind speeds of two to seven miles per hour (mph), and temperatures ranging from 52 to 60 degrees Fahrenheit (°F). A second biological resources survey was conducted on April 8, 2025 by Eilleen Salas and Josh Elson on newly added parcels for the proposed BESS and substation at the northern portion of the Study Area. Weather conditions were also favorable, with zero to 10% cloud cover, wind speeds of three to five mph, and temperatures ranging from 70-78°F. Both general biological resources surveys were conducted on foot using meandering transects. All plant and wildlife species encountered within the Study Area were identified and recorded. The potential for special-status plant and wildlife species to occur within the Study Area was evaluated based on the observed vegetation communities, soils present, and surrounding features. Vegetation communities and land covers on-site were mapped directly in the field.

Vegetation Community and Land Cover Mapping

Vegetation communities and land uses within the Study Area were mapped in the field using the Environmental Systems Research Institute (Esri) Collector, a mobile data collection application, on a digital aerial-based background (Esri 2025). Following completion of the fieldwork, all vegetation linework was finalized using Esri ArcGIS software and GIS coverage was created. Once in ArcGIS, the acreage of each vegetation community and land cover type within the Study Area was determined. Vegetation communities within the Study Area were mapped using CDFW's List of Vegetation Alliances and Associations (or California Natural Community List) (CDFW 2025c), which is based on A Manual of California Vegetation, Second Edition (Sawyer et al. 2009) and A Manual of California Vegetation, Online Edition (CNPS 2025b), where feasible, with modifications made to accommodate the lack of conformity of the observed communities (e.g., developed/disturbed land cover types) using Oberbauer et al. (2008) and Jones and Stokes (1993). Vegetation communities were classified based on site factors, descriptions, distribution, and characteristic species present within an area. Each natural community was mapped to the association level, where feasible. Special-status vegetation communities are those communities identified as high priority for inventory in the California Natural Communities List (CDFW 2025c) by a state rarity ranking of S1, S2, or S3.

Plants

All plant species encountered during the field surveys were identified and recorded. Latin and common names for plant species with a California Rare Plant Rank (CRPR) follow the CNPS Inventory (CNPS 2025a). For plant species without a CRPR, Latin names follow the Jepson Interchange List of Currently Accepted Names of Native and Naturalized Plants of California (Jepson Flora Project 2025), and common names follow the USDA NRCS Plants Database (USDA 2025b). Potential for special-status plant species to occur within the Study Area was assessed based on known geographic and elevation ranges as well as habitat and soil conditions that are known to support species occurring in the region.

Wildlife

All wildlife species, as detected during the field survey—by sight, calls, tracks, scat, or other signs—were identified and recorded. Binoculars were used to aid in the identification of observed wildlife. No trapping or focused surveys for special-status species or nocturnal species were conducted. In addition to species actually observed, expected wildlife usage of the Study Area was determined according to known habitat preferences of regional wildlife species and knowledge of their relative distributions in the area. Latin and common names for wildlife species referred to in this report follow Crother (2017) for reptiles and amphibians, American Ornithologists' Union Checklist (AOU 2018) for birds, Wilson and Reeder (2005) for mammals, and Moyle (2002) for fish. Potential for special-status wildlife species to occur within the Study Area was assessed based on known geographic ranges, the presence/absence of suitable habitat, and other natural history elements that might predict their occurrence.

3.3 Special-Status Species Assessment

The potential for occurrence of plant and wildlife species was summarized according to the following categories. Because not all species are accommodated precisely by a given category (i.e., category definitions may be too restrictive), an expanded rationale for each category assignment is provided.

- Known to occur: the species has been documented on the property by a reliable source.
- High potential to occur: the species has not been documented on the property but is known to recently occur in the vicinity and suitable habitat is present.
- Moderate potential to occur: the species has not been documented on the property or in the vicinity, but the site is within the known range of the species and suitable habitat for the species is present.
- Low potential to occur: the species has not been documented in the vicinity or on the property, but the site is within the known range of the species; however, suitable habitat for the species on site is of low quality.
- Not expected to occur: the property is outside the known geographic or elevational range of the species and/or the site does not support suitable habitat for the species.

Special-Status Plant Species

Endangered, rare, or threatened plant species as defined in Section 15380(b) of the CEQA Guidelines (14 CCR 15000 et seq.) are referred to as "special-status plant species" and, as used in this report, include (1) plant species listed, proposed for listing, or candidates for listing as endangered or threatened recognized in the context of CESA and the FESA (CDFW 2025d); and/or (2) plant species with a CRPR 1 or 2 as designated by the CNPS (2025a). Species with CRPR 3 or 4 generally do not qualify for protection under CEQA; but were included in the analysis of this report.

For each special-status plant species known to occur in the vicinity of or within the Study Area, a determination was made regarding the potential for the species to occur within the Study Area based on site-specific information gathered during the field reconnaissance, such as the location of the site, vegetation communities and soils present, current site conditions, and each species' known range, habitat associations, preferred soil substrate, life form, elevation, and blooming period.

Special-Status Wildlife Species

Endangered, rare, or threatened wildlife species as defined in CEQA Guidelines, Section 15380(b) (14 CCR 15000 et seq.), are referred to as "special-status wildlife species" and, as used in this report, include (1) wildlife species listed, proposed for listing, or candidates for listing as endangered or threatened recognized in the context of CESA and FESA (CDFW 2025e); (2) California Species of Special Concern (SSC) as designated by CDFW (2025h); and (3) mammals and birds that are fully protected species as described in the California Fish and Game Code, Sections 4700 and 3511 (CDFW 2025i).

For each special-status wildlife species listed, a determination was made regarding potential use within the Study Area based on site-specific information gathered during the field reconnaissance, such as the location of the site, vegetation communities and soils present, current site conditions, and each species' known range, habitat preferences, and knowledge of the species' relative distributions in the area.

3.4 Jurisdictional Waters Delineation

A formal delineation of potentially jurisdictional aquatic resources was not conducted for the Study Area during the site visit; however, the site was inspected for the presence of potentially jurisdictional wetlands and waters. In addition to a site inspection, a desktop review using aerial imagery (Google 2025), the National Hydrography Dataset and Watershed Boundary Dataset (USGS 2025), and the USFWS National Wetland Inventory (USFWS 2025b) was conducted.

4 Environmental Setting

The Study Area is located within the western Mojave Desert, which is a region containing desert plains, dry lakebeds, and scattered mountains. The following describes the existing abiotic conditions of the proposed for the Study Area and surrounding area.

4.1 Land Use

The southern portion of the Study Area, where the proposed PV facility would be located, consists of two large, recently plowed, circular agricultural fields with barren ground and devoid of vegetation; however, these fields are periodically used to plant crops and are irrigated. The northern portion of the Study Area, where the proposed BESS and substation are located, contains a small, partially disturbed open land, with native shrubs to the west and a former commercial/storage facility to the east. The proposed gen-tie line from the proposed PV facility to the proposed BESS is along 90th Street East, which is a paved two-lane road. Surrounding the Study Area is open space that has historically been used for agriculture, along with some agricultural fields and residential and industrial properties (Google 2025, NETR 2025).

4.2 Climate

The western Mojave Desert has a large seasonal temperature variation, with high temperatures averaging approximately 97°F in the summer to low averages of approximately 30°F in winter (Charlton and Rundel 2017). The mean annual precipitation is approximately five inches, with most rainfall occurring from November to March, with late summer monsoon-related rainfall also contributing to the total (Charlton and Rundel 2017).

4.3 Topography

The topography within the Study Area is generally flat and undeveloped open space. Disturbed areas with 10- to 12-foot berms are found on the perimeter of the recently plowed fields located in the southern portion of the Study Area associated with the proposed PV facility. A small manmade basin with earthen berms is in the northwest corner of that area. Elevations in the Study Area range from 2,438 to 2,508 feet above mean sea level (amsl). Excluding the large berms on the perimeter, there are no other substantial topographical features in the Study Area vicinity (USGS 2018, Google 2025).

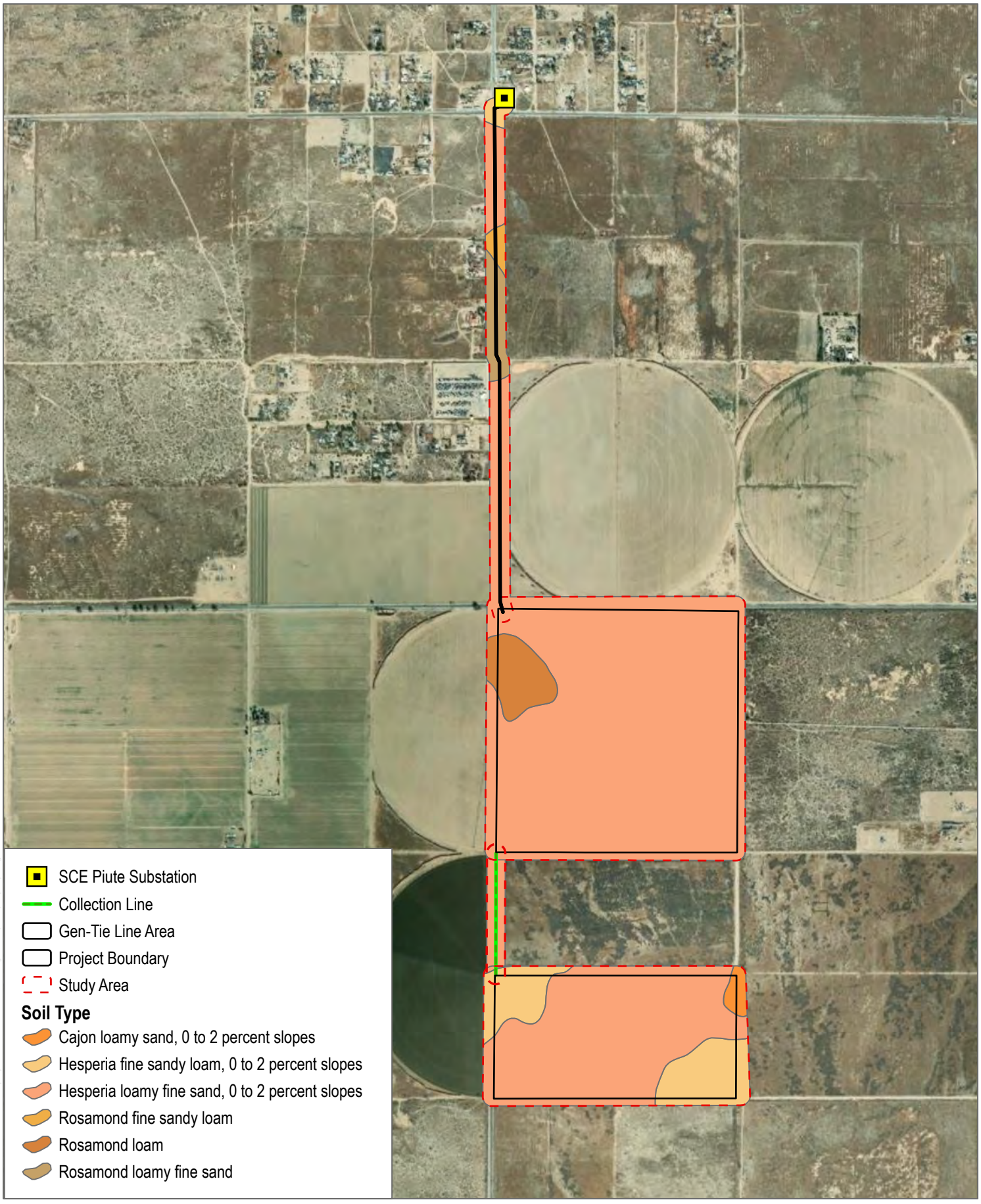
4.4 Soils

According to the USDA Natural Resources Conservation Service (NRCS) Web Soil Survey (USDA 2025a), three soil mapping units occur within the Study Area: Cajon Series, Hesperia Series, Rosamond Series, as shown in Figure 2, Soils. soil series are described by the NRCS as follows (USDA 2025a):

Cajon Series consists of very deep, somewhat excessively drained soils formed in alluvial material derived mainly from granitic rocks. Both the Cajon sand, 0% to 2% slopes, and the Cajon sand, 2% to 9% slopes, mapping units occur on alluvial fans at elevations between 1,800 to 3,500 feet amsl (USDA 2025).

Hesperia Series consists of very deep, well drained soils that formed in alluvium derived primarily from granite and related rocks. Hesperia soils form on alluvial fans, valley plains, and stream terraces at elevations from 200 to 4,800 feet amsl. These non-hydric soils have negligible to low runoff and moderately rapid permeability. Creosote bush and sparse annuals are common vegetation found on these soils (USDA 2025).

Rosamond Series consists of very deep, well drained soils formed in alluvial material derived mainly from granitic rocks. The Rosamond loam, saline-alkali flats, mapping unit occurs on the lower margins of alluvial fans and on basin rims at elevations between 1,700 to 2,800 feet amsl (USDA 2025).



SOURCE: USDA

DUDEK

0 500 1,000 Feet

FIGURE 2

Soils

Pronghorn Solar Storage Project

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5 Results

Representative photos of the Study Area and the biological resources described in this chapter are included in Appendix A, Photo Exhibit.

5.1 Vegetation Communities and Land Covers

A total of six vegetation communities and four land cover types were mapped in the Study Area during the surveys. These vegetation communities and land cover types are described below, their acreages are presented in Table 1, Vegetation Communities and Land Covers within the Project Site and Study Area, and their spatial distributions are presented in Figure 3, Vegetation Communities and Land Cover Types.

Table 1. Vegetation Communities and Land Covers within the Project Site and Study Area

Vegetation Community/ Land Cover	Alliance	Association	Ranking[1]	Project Site Acreage	Study Area Acreage
Native and Naturalized Vegetation Communities					
Creosote bush scrub	*Larrea tridentata* Shrubland	*Larrea tridentata - Atriplex polycarpa*	G5/ S5	-	4.94
Fourwing saltbush scrub	*Atriplex canescens* Shrubland	*Atriplex canescens*	G5/S4	1.26	2.52
Rubber rabbitbrush scrub	*Ericameria nauseosa* Shrubland	*Ericameria nauseosa*	G5/S5	0.08	4.21
Russian thistle-dyers woad- fivehood bassia fields	*Salsola tragus-Isatis tinctoria- Bassia* spp.	*Salsola* spp.	GNA/SNA	0.25	14.29
Tamarisk thickets	*Tamarix* spp. Shrubland Semi-Natural	*Tamarix* spp.	GNA/SNA	0.52	1.19
Allscale scrub	*Atriplex polycarpa*	*Atriplex polycarpa*	G4/S4	0.03	2.69
			Subtotal	**2.06**	**29.84**
Disturbed and Developed Land Cover Types					
Agriculture	NA	NA	NA	192.95	202.63
Disturbed Habitat	NA	NA	GNR/SNR	45.78	70.15
Developed	NA	NA	NA	6.50	22.56
Ornamental Plantings	NA	NA	NA	2.33	3.72
			Subtotal	**247.47**	**299.07**
			Total	**249.53**	**328.91**

Notes: Totals may not sum due to rounding.

[1] The conservation status of a vegetation community is designated by a number from 1 to 5, preceded by a letter reflecting the appropriate geographic scale of the assessment (G = global, N = national, and S = subnational). The numbers in the table have the following meaning (NatureServe 2025):
4 = apparently secure
5 = demonstrably widespread, abundant, and secure
NA = not applicable

GNR = unranked, global rank not yet assessed
SNR = unranked, subnational rank not yet assessed
GNA = Semi-Natural Stands not globally ranked
SNA= Semi-Natural Stands not subnationally assessed

5.1.1 Native and Naturalized Vegetation Communities

Fourwing Saltbush Scrub

The fourwing saltbush scrub, or the *Atriplex canescens* scrub alliance features fourwing saltbush as the dominant or co-dominant species in the shrub canopy. Fourwing saltbush must generally make up at least 2% of the absolute cover and more than 50% relative cover in the shrub canopy. Communities within this alliance can have an open to intermittent shrub canopy less than three meters (10 feet) in height with a variable herbaceous layer comprised with seasonal herbs and non-native grasses. Fourwing saltbush scrub alliance is found on beach and shores, lake deposits, dissected alluvial fans, rolling hills or channel bed with carbonate rich, alkaline, sandy, or sandy clay loam soils (CNPS 2025b).

Fourwing saltbush scrub alliance was mapped as the *Atriplex canescens* association within the northern most portion of the Study Area. This vegetation community had partially disturbed soils with dirt roads passing through the area. Other species observed include rubber rabbitbrush (*Ericameria nauseosa*) and non-native grasses such as compact brome (*Bromus madritensis*) and common Mediterranean grass (*Schismus barbatus*). Fourwing saltbush scrub is not considered a sensitive biological resource (CDFW 2025c).

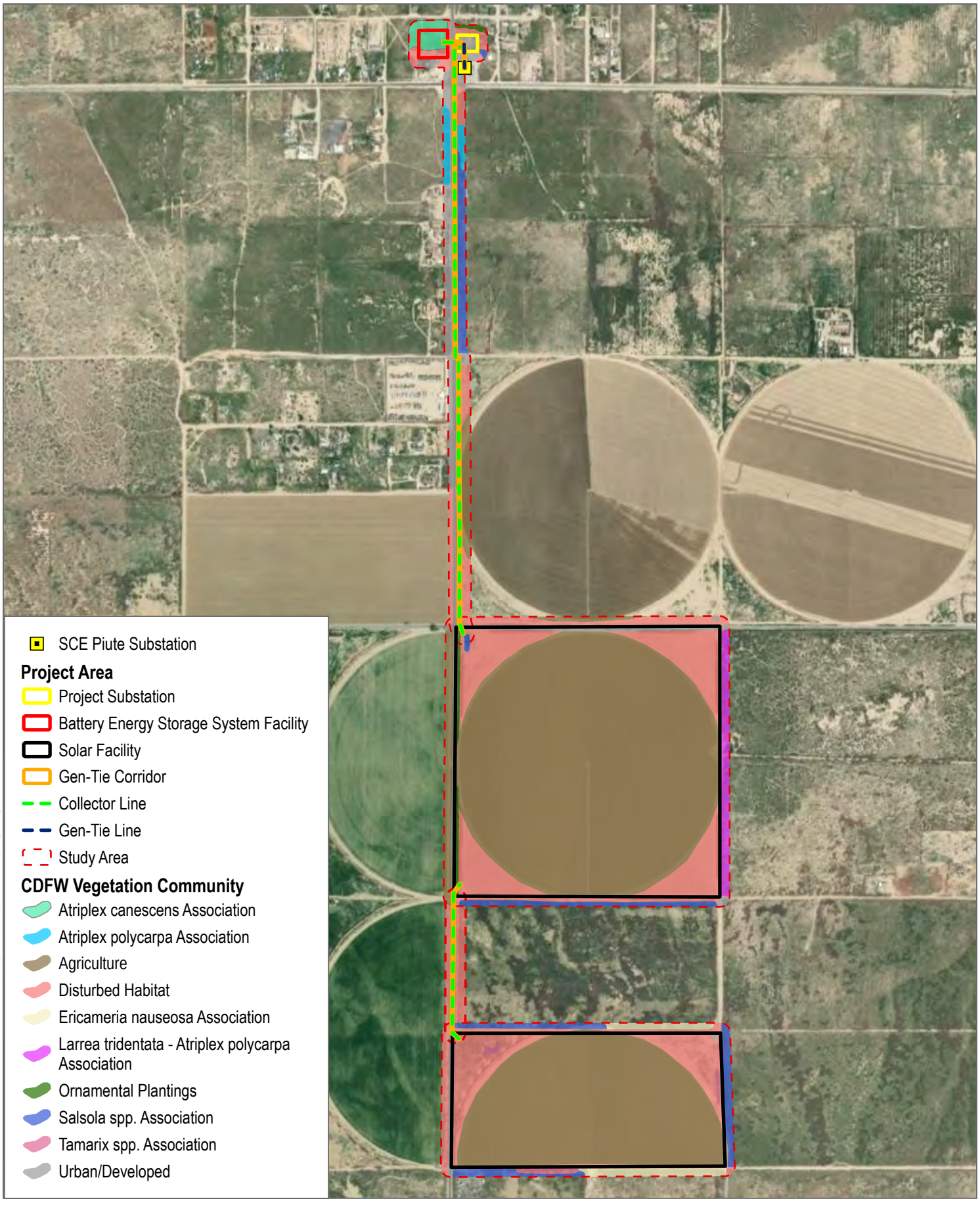
Creosote Bush Scrub

Creosote bush scrub, or the *Larrea tridentata* shrubland alliance, is recognized by the CDFW Natural Community List (CDFW 2025c). Communities in this alliance include creosote bush as the dominant shrub, exceeding all other shrubs in cover. This alliance is found in a variety of desert landforms, including alluvial fans, upland slopes, and small intermittent washes on well-drained soils (CNPS 2025b).

Creosote bush scrub was mapped along the northeastern portion of the Study Area, outside of the Project site (Figure 3). Other shrub species observed in the community on site include rubber rabbitbrush, and prickly Russian thistle (*Salsola tragus*). Creosote bush is not considered a sensitive biological resource (CDFW 2025c).

Rubber Rabbitbrush Scrub

Rubber rabbitbrush scrub or *Ericameria nauseosa* shrubland alliance is recognized by the Natural Communities List (CDFW 2023) and the communities include rubber rabbitbrush as the dominant or codominant species in the shrub canopy with a sparse or grassy herbaceous layer (CNPS 2025b). Rubber rabbitbrush scrub has an open to continuous shrub canopy of less than three meters (9 feet) in height (Sawyer et al. 2009). This alliance consists of at least 2% absolute cover of rubber rabbitbrush or more than 25% relative cover in the shrub canopy (Sawyer et al. 2009). The rubber rabbitbrush scrub occurs in disturbed settings on well-drained sands and gravels (Sawyer et al. 2009).



SOURCE: ESRI 2024

DUDEK

0 500 1,000 Feet

FIGURE 3

Vegetation Communities and Land Cover

Pronghorn Solar Storage Project

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This community is found along western and southeastern portions of the Study Area. Other species occurring within this community included cheatgrass and common mediterranean grass. The rubber rabbitbrush association is not considered a sensitive biological resource (CDFW 2025c).

Russian Thistle - Dyers Woad - Fivehood Bassia Fields

The Russian thistle - dyers woad – fivehood bassia fields alliance or *Salsola tragus – Isatis tinctoria – Bassia* spp. is not yet recognized and currently a pending addition to the Natural Communities List (CDFW 2025c). This alliance was mapped to the *Salsola* spp. association and dominated by prickly Russian thistle. Prickly Russian thistle is an invasive shrub that can occur on that can be found in agricultural areas, desert, roadsides, and other disturbed areas. In the Study Area, this community was found in the eastern portion of the Study Area.

Tamarisk Thickets

Tamarix thickets or *Tamarix* spp. shrubland semi-natural alliance includes tamarisk (*Tamarix ramosissima*) as the dominant species in the shrub canopy with less than 8-meter shrubs in a continuous or open canopy (CNPS 2025b). Tamarix is an invasive shrub or tree that can occur along lake margins, ditches, wash, rivers, and other watercourses (CNPS 2025b). The tamarisk thickets alliance was mapped on the northwestern corner and southern boundary of the lower quadrant of the Project site. These small stands of tamarisk thickets seem to be remnant of a former water well utilized as an irrigation system source to support the agriculture field that is no longer there.

Allscale Scrub

Allscale scrub or *Atriplex polycarpa* shrubland alliance includes cattle saltbush (*Atriplex polycarpa*) as the dominant species in the shrub canopy with less than 3-meter shrubs in an open to continuous canopy (CNPS 2025b). Cattle saltbush scrub is a native shrub that can occur in washes, playa lake beds and shores, and dissected alluvial fans. It prefers alkaline, sandy, or sandy clay loam soils. This species is recognized by the wetland inventory as a facultative upland plant. The allscale scrub association was mapped outside of the Project site, within the Study Area directly adjacent to the road and following the gen-tie alignment. Thie allscale scrub vegetation community is not considered a sensitive vegetation community (CDFW 2025c).

5.1.2 Disturbed and Developed Land Cover Types

Agriculture

Although not recognized by the Manual of California Vegetation, Online Edition (CNPS 2025b) or the Natural Communities List (CDFW 2025c), agriculture lands-row crops are described in the Draft Vegetation Communities of San Diego County (Oberbauer et al. 2008) as lands that support an active agricultural operation. The Study Area contained agricultural fields throughout the majority of the Project site that are used to grow annual or perennial crops in rows with open space between the rows. Two distinct recently plowed circular old agriculture fields are found in the central portions of the northern and southern quadrant of the Study Area. At the time of the survey, both agriculture fields were extremely disturbed and were devoid of any vegetation or suitable habitat for species to find suitable.

Disturbed Habitat

Although not recognized by the Manual of California Vegetation, Online Edition (CNPS 2025b) or the Natural Communities List (CDFW 2025c), disturbed habitat is described in the Draft Vegetation Communities of San Diego County (Oberbauer et al. 2008). Disturbed habitat is described as areas generally lacking vegetation due to high levels of existing or historical human disturbance and are no longer recognizable as a native or naturalized vegetation association. Areas mapped as disturbed habitat may include unpaved roads, trails, and graded areas (Oberbauer et al. 2008). Vegetation in these areas, if present at all, is usually sparse and dominated by non-native weedy herbaceous species (Oberbauer et al. 2008). Areas mapped as disturbed habitat within the Study Area included dirt roads and the outer corners found on both the north and south quadrants. These areas also contained large 10- to 12-foot berms. The disturbed habitat contained non-native ruderal species such as redstem stork's bill (*Erodium cicutarium*) and common Mediterranean grass (*Schismus barbatus*).

Urban/Developed

Although not recognized by the Manual of California Vegetation (CNPS 2025b) or the Natural Communities List (CDFW 2025c), the urban/developed mapping unit (or developed land) is described in Draft Vegetation Communities of San Diego County (Oberbauer et al. 2008). This mapping unit is described as areas supporting human-made structures, including homes, yards, sidewalks, and other highly modified lands supporting structures associated with dwellings or other permanent structures. Vegetation in these areas, if present at all, is typically associated with ornamental landscaping that has been included in the development footprint (Oberbauer et al. 2008). Developed lands in the Study Area include the paved roads, the abandoned water pump station, and the SCE substation.

Ornamental Plantings

Although not recognized by the Manual of California Vegetation (CNPS 2025b) or the Natural Communities List (CDFW 2025c), parks and ornamental plantings (or ornamental vegetation) is described in Methods Used to Survey the Vegetation of Orange County Parks and Open Space Areas and The Irvine Company Property (Jones and Stokes 1993). This mapping unit is described as vegetation comprised of non-native trees, shrubs, flowers, and turf grass introduced for landscaping purposes. This mapping unit type typically occurs in greenbelts, parks, and horticultural plantings (Jones and Stokes 1993). The area mapped as ornamental plantings in the Study Area are found along 90th Street and consists of an approximate one-mile linear area of planted Sargent's cypress (*Hesperocyparis sargentii*). According to aerial imagery, this area was planted in a linear stretch in the year 2006 and used as a wind row on the western portion of the project (Google 2025).

5.2 Plants

A list of plant species observed during the biological reconnaissance survey is included in Appendix B, Species Compendium. Of the 24 plant species observed, 46% were native species and 54% were non-native species. The surveys were conducted outside of the typical blooming period for most desert, herbaceous annual species and it is expected that the site supports a variety of common species.

5.2.1 Special-Status Plant Species

Appendix C, Special-Status Plant Species Potentially Occurring in the Study Area, lists special-status plant species that are known to occur in the in the USGS 7.5-minute Alpine Butte quadrangle and the surrounding eight USGS 7.5-minute quadrangles, or are included within the USFWS IPaC list generated for the Study Area (CDFW 2025a; CNPS 2025a; USFWS 2025a). One special-status plant species was observed during the February 2024 and April 2025 field reconnaissance. Western Joshua tree (*Yucca brevifolia*) is a state candidate for listing. One special-status species with a CRPR 4.2 was found having a moderate potential to occur, Mojave monardella (*Monardella exilis*).

Table 2. Special-Status Plant Species with a Moderate and High Potential to Occur or Present in the Study Area

Scientific Name	Common Name	Status[1] (Federal/State/ CRPR)	Primary Habitat Associations/ Life Form/ Blooming Period/ Elevation Range (feet)	Potential to Occur[2]
Monardella exilis	Mojave monardella	None/None/4.2	Chenopod scrub, Desert dunes, Great Basin scrub, Joshua tree "woodland", Lower montane coniferous forest, Mojavean desert scrub, Pinyon and juniper woodland; Sandy/annual herb/Apr–Sep/1,970–6,725	Moderate potential to occur. Suitable habitat may be present in the northern portion, but minimal, in the southern portion of the Study Area. There are two recent occurrences 3.5 miles south of the Project site (Jepson 2025).
Yucca brevifolia	western Joshua tree	None/SC/CBR	Great Basin grassland, Great Basin scrub, Joshua tree woodland, Mojavean desert scrub, Pinyon and juniper woodland, Sonoran desert scrub, Valley and foothill grassland/perennial leaf succulent/Apr–May/1312–6562	Known to occur. Seven individuals were recorded within the Study Area. Additional individuals located just outside of the Study Area.

Notes:
CRPR: California Rare Plant Rank (CNPS 2025a)
1B: Plants rare, threatened, or endangered in California and elsewhere
4: Watch List: Plants of limited distribution
Modifiers:
.1: Seriously threatened in California (over 80% of occurrences threatened/high degree and immediacy of threat)
.2: Moderately threatened in California (20% - 80% of occurrences threatened/moderate degree and immediacy of threat)
.3: Not very threatened in California (less than 20% of occurrences threatened/low degree and immediacy of threat)

Mojave Monardella

Mojave monardella has a CRPR of 4.2. This annual herb typically blooms from April to September and is found in chenopod scrub, desert dunes, Great Basin scrub, lower montane coniferous forest, Mojavean desert scrub, pinyon and juniper woodland, and Joshua tree woodlands, on sandy soils, between 1,970 and 6,725 feet amsl (CNPS 2025a). Suitable habitat is present within the northern portion of the Study Area and within the buffer boundaries of the southern portion of the Study Area. Additionally, there are two recent occurrences 3.5 miles south of the Study Area (CDFW 2025a). Therefore, Mojave monardella has a moderate potential to occur in the Study Area.

Joshua Tree

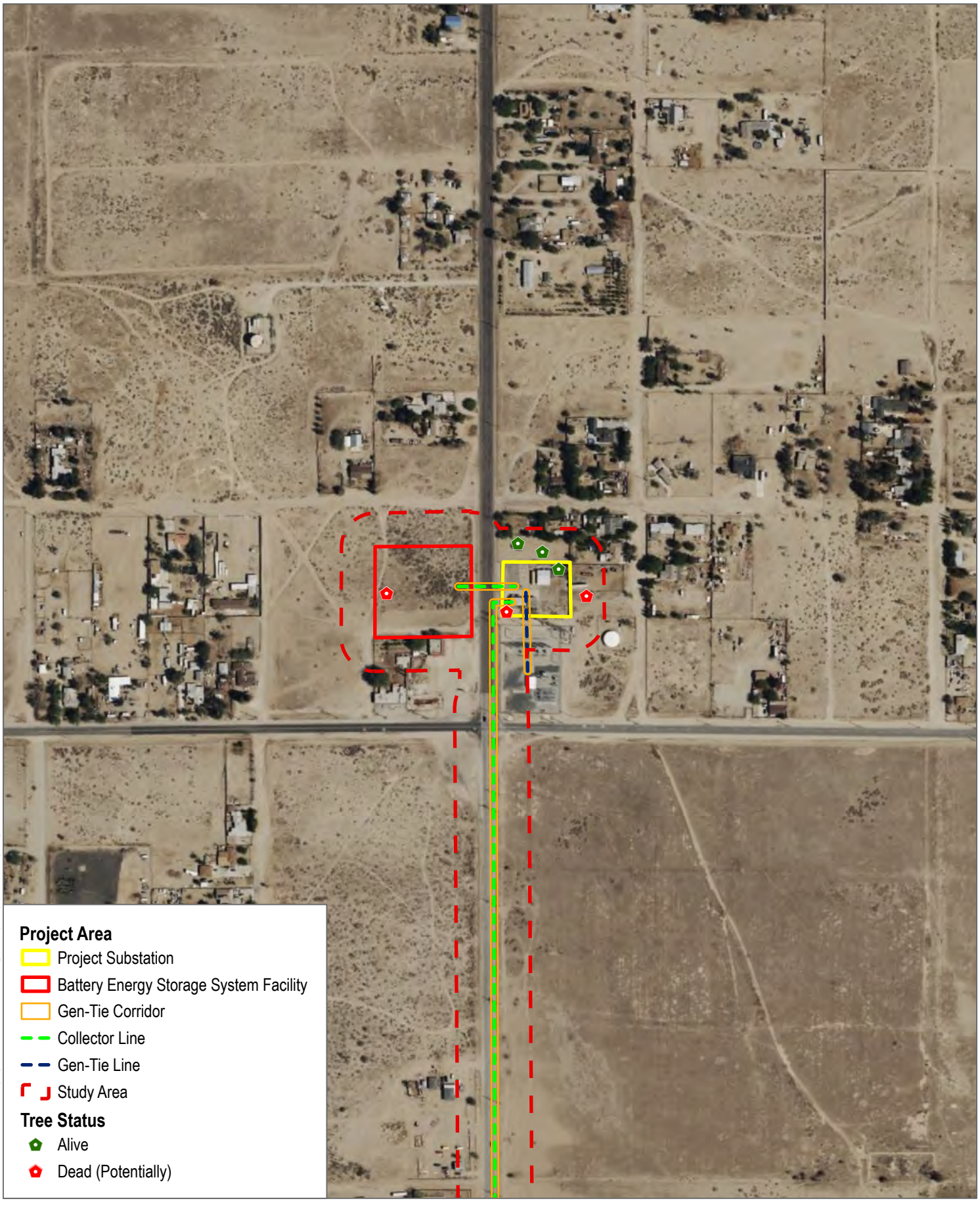
Western Joshua tree is a candidate for listing as "Threatened" under CESA and afforded the protection of the act while the Commission decides if listing the species is warranted. This monocot tree in the asparagus family (*Agavaceae*) typically blooms between April and May but is a conspicuous tree and identifiable at any time of year. It is found within Joshua tree woodland, Great Basin grassland and scrub, Mojavean desert scrub, pinyon and juniper woodland, Sonoran desert scrub, and valley and foothill grassland between 1,310 and 6,560 feet amsl (CNPS 2025b). This species occurs on desert flats and slopes in the northern portion of Los Angeles County and other counties in southeastern California (Calflora 2025; Jepson Flora Project 2025). A total of seven Western Joshua trees were found within the Study Area. Of those seven, one live and two potentially dead Joshua trees were found within the project boundaries, as shown in Figures 4a and 4b, Joshua Trees. The remaining four were found outside of the project boundaries, within the Study Area. Multiple individuals were observed outside of the Study Area.

5.3 Wildlife

Eighteen wildlife species were recorded within the Study Area during the biological reconnaissance survey. Some common bird species included: horned lark (*Eremophila alpestris*), common raven (*Corvus corax*), turkey vulture (*Cathartes aura*), white-crowned sparrow (*Zonotrichia leucophrys*), mourning dove (*Zenaida macroura*), western meadowlark (*Sturnella neglecta*), mountain bluebird (*Sialia currucoides*), house finch (*Haemorhous mexicanus*), and Brewer's blackbird (*Euphagus cyanocephalus*), American pipit (*Anthus rubescens*), and Brewer's blackbird (*Euphagus cyanocephalus*). No amphibian species were observed, and none are expected to occur due to the lack of aquatic habitat on site. Two reptile species, common side-blotched lizard (*Uta stansburiana*) and tiger whiptail (*Aspidoscelis tigris*), were observed during the survey; however, western fence lizard (*Sceloporus occidentalis*) is another common reptile species that could occur within the Study Area. One mammal species, California ground squirrel (*Otospermophilus beecheyi*), was observed during the survey. Other mammal species that may occur in the Study Area include coyote (*Canis latrans*). For a complete list of species observed see Appendix B, Plant and Wildlife Species Compendium.

5.3.1 Special-Status Wildlife Species

Appendix D, Special-Status Wildlife Species Potentially Occurring in the Study Area, lists special-status wildlife species that are known to occur in the USGS 7.5-minute Alpine Butte quadrangle and the surrounding eight USGS 7.5-minute quadrangles, as well as wildlife species included within the USFWS IPaC list generated for the Study Area (CDFW 2025a; USFWS 2025a). No critical habitat for wildlife has been designated within the Study Area (USFWS 2025a).



SOURCE: Bing Maps

DUDEK

0 187.5 375 Feet

FIGURE 4a

Joshua Trees

Pronghorn Solar and Storage Project

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SOURCE: Bing Maps

DUDEK

0 187.5 375 Feet

FIGURE 4b

Joshua Trees

Pronghorn Solar and Storage Project

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No special-status wildlife species were observed during the February 2024 or April 2025 biological reconnaissance surveys. Four special-status wildlife have a moderate or high potential to occur in the Study Area. Two species, desert tortoise (*Gopherus agassizii*) and Mohave ground squirrel (*Spermophilus* [*Xerospermophilus*] *mohavensis*) that are listed under the federal and/or state endangered species acts have a low potential to occur within the Study Area.

Table 3. Special-Status Wildlife Species with a Moderate or High Potential to Occur in the Study Area

Scientific Name	Common Name	Status[1] (Federal/State)	Habitat	Potential to Occur[2]
Anniella sp.	legless lizard	None/SSC	Coastal dunes, stabilized dunes, beaches, dry washes, valley–foothill, chaparral, and scrubs; pine, oak, and riparian woodlands; associated with sparse vegetation and sandy or loose, loamy soils	Moderate potential to occur. Limited habitat is present in the study are under the Tamarisk trees in the southern portion of the project site. Most of the soils within the Project site have been substantially altered due to persistent agricultural practices. There are recent CNDDB occurrences 8 miles southwest of the Project site (CDFW 2025a).
Athene cunicularia (burrow sites & some wintering sites)	burrowing owl	BCC/SSC	Nests and forages in grassland, open scrub, and agriculture, particularly with ground squirrel burrows	Low potential to occur. Numerous burrows throughout the Project site along with ground squirrel activity and suitable foraging habitat. There is a high number of occurrences beginning 3-5 miles north and east of the Project site (CDFW 2025a). However, the species' presence has substantially declined in the Project region in the past 30 years (Center for Biological Diversity et al. 2024).

Table 3. Special-Status Wildlife Species with a Moderate or High Potential to Occur in the Study Area

Scientific Name	Common Name	Status[1] (Federal/State)	Habitat	Potential to Occur[2]
Buteo regalis (wintering)	ferruginous hawk	None/WL	Winters and forages in open, dry country, grasslands, open fields, agriculture	High potential to occur. There are records of the species in the Study Area during the wintering season (eBird 2025). Foraging habitat and prey also present in Study Area and surrounding vicinity. There is a single CNDDB occurrence 4.8 miles west (CDFW 2025a) as well as numerous nearby observations of this species recorded on iNaturalist (2025), to the immediate north
Buteo swainsoni (nesting)	Swainson's hawk	None/ST	Nests in open woodland and savanna, riparian, and in isolated large trees; forages in nearby grasslands and agricultural areas such as wheat and alfalfa fields and pasture	Moderate potential to occur. There are numerous CNDDB occurrences within two miles of the Project site (CDFW 2025a). Suitable nesting habitat is extremely sparse on the Project site but present just outside the Study Area (large trees). however, no nests were observed during the April 2025 reconnaissance. Foraging habitat and prey are present in the Study Area and surrounding vicinity.
Charadrius montanus (wintering)	mountain plover	BCC/SSC	Winters in shortgrass prairies, plowed fields, open sagebrush, and sandy deserts	High potential to occur. Wintering habitat is present in the Study Area. There is a 2011 CNDDB occurrence within the Study Area and an eBird record adjacent to the west and numerous others in the vicinity (CDFW 2025a).

Table 3. Special-Status Wildlife Species with a Moderate or High Potential to Occur in the Study Area

Scientific Name	Common Name	Status[1] (Federal/State)	Habitat	Potential to Occur[2]
Gopherus agassizii	Mojave desert tortoise	FT/ST	Arid and semi-arid habitats in Mojave and Sonoran Deserts, including sandy or gravelly locations along riverbanks, washes, sandy dunes, canyon bottoms, desert oases, rocky hillsides, creosote flats, and hillsides	Low potential to occur. There are several CNDDB records of this species to the east and northeast (CDFW 2025a). Suitable burrowing habitat is sparse but present in the southern and southeastern area of the Study Area, outside of the Project site. The majority of the Project site has not been identified as predicted habitat for the species (CDFW 2025b), and much of the surrounding has been identified as having low potential for the species (CDFW 2025b).
Spermophilus (*Xerospermophilus*) *mohavensis*	Mohave ground squirrel	None/ST	Desert scrub habitats including those dominated by creosote bush and burrobush, desert sink scrub, and desert saltbush scrub	Low potential to occur. There are numerous historical and recent records of this species occurring in the vicinity, with most recent being 2008 and 2011 occurrences 11-13 miles northeast of the Study Area (CDFW 2025a). However, the Study Area provides marginal habitat for the species.

Notes: Federal: FT=federally listed as threatened; BCC=Bird of Conservation Concern (USFWS)
State: ST=state listed as threatened; SCE=state candidate for endangered; SSC=Species of Special Concern (CDFW)

California Legless Lizard

Legless lizard (*Anniella* sp.) is a CDFW Species of Special Concern. The California legless lizard is a fossorial (i.e., burrowing) animal and is found primarily in areas with sandy or loose soils where they typically are found beneath leaf litter and in the soil (Holland and Goodman 1998; Zeiner et al. 1988). This species may be found in sparsely vegetated areas in a variety of habitats, including beach dunes; chaparral; California sagebrush scrub; oak woodlands; pine forests; pine–oak woodland; sandy washes; and stream terraces with sycamores, cottonwoods, or oaks (Zeiner et al. 1988; Stebbins 2003; Holland and Goodman 1998). Rocky soils or areas disturbed by development, agriculture, sand mining, or other human uses where the loose substrate has been removed or altered are not suitable for legless lizards (Miller 1944; CDFG 1971; Hunt 1983; Stebbins 2003; Jennings and Hayes 1994). Soil moisture is considered essential for legless lizards to conserve energy at high temperatures and to also allow shedding to occur (Jennings and Hayes 1994). Kuhnz et al. (2005) found higher densities of individuals near shrubs and moister soils within dune systems than in areas with disturbed soils or where ice plant grew.

The majority of the Study Area is generally comprised of highly disturbed soils. A small, isolated area comprised of tamarisk in the southern portion of the Study Area, may provide suitable habitat for this species within the soils and leaf litter within the shrubs. Therefore, this species was found to have a moderate potential to occur within the Study Area.

Burrowing Owl

Burrowing owl (*Athene cunicularia*) is a USFWS Bird of Conservation Concern and a CDFW Species of Special Concern. With a relatively wide-ranging distribution throughout the west, burrowing owls are considered to be habitat generalists (Lantz et al. 2004). In California, burrowing owls are yearlong residents of open, dry grassland and desert habitats and in grass, forb, and open shrub stages of pinyon-juniper and ponderosa pine habitats (Zeiner et al. 1990). Preferred habitat is generally typified by short, sparse vegetation with few shrubs, level to gentle topography, and well-drained soils (Haug et al. 1993).

The proposed BESS portion of the Study Area had some small mammal burrows but no BUOW or diagnostic sign of the species was observed. The majority of the southern portion of the Study Area is comprised of a highly disturbed barren land lacking any vegetation or burrows. However, the perimeter of the Project site contains a human-altered landscape with 10- to 12-foot tall berms where multiple burrows were observed. No suitable burrowing owl burrows or other sign such as white-wash, owl pellets, or feathers were observed, therefore no focused burrowing owl protocol surveys were conducted. However, this species is opportunistic and can move onto a site once a suitable burrow is established and unoccupied. There is a low potential for this species to occur within the Study Area.

Ferruginous Hawk

Ferruginous hawk (*Buteo regalis*) is a CDFW Watch List Species and a U.S Fish and Wildlife Service Bird of Conservation Concern. The ferruginous hawk winters in California near open terrain and grasslands of plains and foothills, sagebrush flats, desert scrub, and fringes of pinyon-juniper habitats (Zeiner et al. 1990). Although not state or federally listed as Threatened or Endangered, this species is generally accepted to be declining range wide.

Although there are limited foraging opportunities within the Study Area, Ferruginous hawk may still occur as a transient species. Additionally, there are multiple records of the species in the Study Area and general vicinity during the wintering season. Therefore, this species has a high potential to occur within the Study Area.

Swainson's Hawk

Swainson's hawk's (*Buteo swainsoni*) range extends through much of western North America. It winters Central America and western South America (Bechard et al. 2020). Within California, Swainson's hawk primarily resides within the Central Valley, although habitat loss has greatly reduced its range within the state (Bloom 1980). It also nests in parts of the Mojave Desert, especially the Antelope Valley of Los Angeles and Kern County; in the Great Basin; and in the Klamath Valley.

Although most of the Project is depleted of natural resources, the disturbed corners of the Project site and northern portion of the project site can potentially provide suitable foraging habitat for Swainson's hawk due to the presence of California ground squirrel. Multiple CNDDB occurrences have been recorded northeast of the Project site approximately two miles away. Therefore, Swainson's hawk has a moderate potential to occur (nesting) just outside of the Project site and forage along the perimeter of the Project site.

Mountain Plover

Mountain plover (*Charadrius montanus*) is a CDFW Species of Special Concern. This species can winter in California from September through March. This species' distribution range is Central Valley, West of San Joaquin Valley, Imperial Valley, plowed fields of Los Angeles and western San Bernardino counties. It prefers habitat with sparse vegetation and xeric shrublands, grasslands, or barren agricultural fields from 2,100 to 10,663 feet in elevation. The mountain plover will forage on insects, preferably but not exclusively grasshoppers, (Zeiner et al. 1990).

Limited foraging habitat is present within the project boundaries; therefore, mountain plover can winter within the Study Area. Additionally, there is a 2011 CNDDB occurrence within the Study Area. Mountain plover has a high potential to occur within the Study Area.

Desert Tortoise

Desert tortoise is a federally and state-listed threatened species. The range of the Mohave population of the desert tortoise includes portions of the Mojave Desert and the Colorado Desert in Southern California (parts of Inyo, Kern, Los Angeles, San Bernardino, and Riverside Counties), southern Nevada (Clark, Esmeralda, Nye, and Lincoln Counties), northwestern Arizona (Mohave County), and southwestern Utah (Washington County).

The typical habitat for the desert tortoise in the Mojave Desert is creosote bush scrub where precipitation ranges from 2 to 8 inches, with relatively high diversity of perennial plants, and high productivity of ephemeral plants. Throughout most of the Mojave Desert, desert tortoises occur most commonly on gently sloping terrain with sandy gravel soils and where there is sparse cover of low-growing shrubs, which allows for the establishment of herbaceous plants. Soils must be friable enough for digging of burrows, but firm enough so that burrows do not collapse (USFWS 2011). Although populations of desert tortoise are not generally known to inhabit elevations much above 4,000 feet amsl, they occur from below sea level to an elevation of 7,300 feet amsl. Occupied habitat varies from flats and slopes dominated by creosote bush scrub at low elevations to rocky slopes in blackbrush and juniper woodland ecotones at higher elevations (USFWS 2011).

There are several CNDDB records of desert tortoise to the east and northeast (CDFW 2025a). Suitable burrowing habitat is sparse but present in the southern and southeastern portion of the Study Area, outside of the Project site. The majority of the Project site has not been identified as predicted habitat for the species (CDFW 2025b), and much of the surrounding has been identified as having low potential for the species (CDFW 2025b). The proposed BESS portion of the Study Area has been identified as predicted habitat; however, this parcel is not expected to support the species because of the adjacent residential and industrial properties and 90th Street East.

The Study Area was not identified as having structural connectivity to core habitat. Therefore, the species is not expected to occur as a transient during dispersal (CDFW 2025b). The Project site is not expected to support food plant species associated with the species due to the agricultural use of the area, so transient use during foraging is not expected; however, if the species is present in the vicinity, local movement by individuals is possible in the Project site.

Mohave Ground Squirrel

Mohave ground squirrel is a state-listed threatened species. This species' distribution range is restricted to the Mojave Desert in San Bernardino, Los Angeles, Kern, and Inyo Counties (Zeiner et al. 1990). Mohave ground

squirrels generally inhabit areas where the soil is friable and sandy or gravelly. Mohave ground squirrels occur in desert scrub habitats dominated by creosote bush and desert saltbush scrub at elevations between 1,800 and 5,000 feet amsl.

The agricultural use of the proposed PV facility portion of the Study Area has removed native vegetation and altered the soils, but the parcel between the two parcels, as well as the parcel to the east and the parcels to south, have been identified as low to medium predicted habitat for the species (CDFW 2016). The proposed BESS portion of the Study Area has been categorized as medium predicted habitat for the species (CDFW 2016), but historic imagery shows that the parcel has been disturbed numerous times in the past 80 years (NETR 2025). This is expected have removed and altered the natural vegetation communities and soils of the parcel. Additionally, the parcel is adjacent to residential and industrial properties that are expected to have inhibited the use of the property by most wildlife species. The Study Area is not located between core populations of the species, so transient movement between dispersal activities are not expected; however, if the species is present in the vicinity, local movement by individuals is possible in the Project site.

5.3.2 Wildlife Corridors and Habitat Linkages

Wildlife corridors are linear features that connect large patches of natural open space and provide avenues for the migration of animals. Corridors can also be aquatic resources that provide passage for fish. Habitat linkages are small patches that join larger blocks of habitat and help reduce the adverse effects of habitat fragmentation; they may be continuous habitat or discrete habitat islands that function as steppingstones for wildlife dispersal.

On a regional level, the Study Area does not occur within any designated wildlife corridors or habitat linkages identified in the South Coast Missing Linkages analysis conducted by South Coast Wildlands (2008) or CDFW's California Essential Habitat Connectivity Project (Spencer et al. 2010), as shown in the CDFW BIOS (CDFW 2025b). On a local level, the Study Area does not have any streams that would provide fish passage and it provides limited connectivity for terrestrial wildlife movement. The undeveloped land with native habitat can provide opportunities for wildlife to move across the site when migrating through the region. However, the Project is in a region with abundant open space and would not create a significant impediment to wildlife movement that would warrant a wildlife corridor study.

No diagnostic signs of bird rookeries (e.g., numerous nests, whitewash) or large maternal or overwintering bat roosts (e.g., large concentrations of guano or guano odors) were identified in the Study Area and are not expected. The lack of habitat to provide substantial foraging opportunities for birds on site or in the immediate area make rookeries unlikely. The lack of typical urban roosting habitat (bridges and older buildings with structural deficiencies) makes it unlikely for the Study Area to support native wildlife nursery sites. The agriculture lands and disturbed habitats may provide nesting opportunities for ground-nesting species and shrub vegetation located within and adjacent to the Study Area provides suitable nesting habitat for other birds.

5.4 Jurisdictional Wetlands and Waters

Although a formal jurisdictional delineation was not performed, no potential jurisdictional waters were observed during the February 2024 or April 2025 reconnaissance visits. However, the site was inspected for the presence of potentially jurisdictional wetlands and waters. No potential jurisdictional features were identified within the Project site during the reconnaissance survey. Nor were any aquatic features identified during the desktop review of aerial

imagery (Google 2025), the National Hydrography Dataset and Watershed Boundary Dataset (USGS 2025), and the USFWS National Wetland Inventory (USFWS 2025b).

The northwest corner of one of the agricultural fields, had a previously excavated area that was likely used as an irrigation pond or manufactured reservoir for the agricultural field's irrigation system. This excavated feature was mostly comprised of non-native prickly Russian thistle, one cottonwood tree (*Populus fremontii*), and tamarisk trees (*Tamarix ramosissima*). However, due to the lack of a natural resource and isolated nature of this irrigation source, this area would not be expected to be considered jurisdictional.

5.5 Local, Regional, or State Habitat Conservation Plans

The Study Area is not within any habitat conservation plan (HCP), natural community conservation plan (NCCP), or other approved local, regional, or state HCP (CDFW 2023).

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6 Project Impacts

This chapter addresses direct and indirect impacts to biological resources that would result from implementation of the proposed Project.

6.1 Definition of Impacts

6.1.1 Direct Permanent Impacts

Direct permanent impacts refer to the absolute and permanent physical loss of a biological resource due to clearing, grading, and/or construction of structures, which can be determined in four ways: (1) permanent loss of vegetation communities, land covers, and general wildlife and their habitat; (2) permanent loss of or harm to individuals of special-status plant and wildlife species; (3) permanent loss of suitable habitat for special-status species; and (4) permanent loss of wildlife movement and habitat connectivity.

6.1.2 Direct Temporary Impacts

Direct temporary impacts refer to a temporal loss of vegetation communities and land covers resulting from vegetation and land cover clearing. The main criterion for direct temporary impacts is that impacts would occur for a short period of time and would be reversible. Areas currently supporting native vegetation temporarily disturbed by construction activities would be restored and revegetated with a native species mix similar to that which existed prior to disturbance following completion of work in the area such that full biological function can be restored. Areas not currently supporting native vegetation would be adequately restored to prevent adverse effects such as erosion or establishment of invasive species following construction.

6.1.3 Indirect Impacts

Indirect impacts are reasonably foreseeable effects caused by project implementation on remaining or adjacent biological resources outside the direct construction disturbance zone that may occur during construction (i.e., short-term construction related indirect impacts) or later in time as a result of the development (i.e., long-term, or operational, indirect impacts). Indirect impacts may affect areas within the defined Study Area, but outside the construction disturbance zone. Indirect impacts include short-term effects immediately related to construction activities and long-term or chronic effects related to the human occupation of developed areas (i.e., development-related long-term effects) that are adjacent to naturalized areas.

For the proposed Project, it is assumed that the potential indirect impacts resulting from construction activities include fugitive dust from earthmoving activities, accidental leaks or spills from construction equipment, noise from construction activities, and general human presence that may temporarily disrupt species and habitat vitality, as well construction-related soil erosion and runoff that could affect downstream resources.

6.1.4 Explanation of Findings of Significance

Impacts to sensitive vegetation communities or riparian habitat, special-status plant species, special-status wildlife species, wildlife corridors and habitat connectivity, and regional resource planning must be analyzed to

determine whether such impacts are significant. CEQA Guidelines Section 15064(b) states that an ironclad definition of "significant" effect is not possible because the significance of an activity may vary with the setting. However, CEQA Guidelines Section 15065(a) lists impacts that are helpful in defining whether a project may have a significant effect on the environment. Mandatory findings of significance occur when there is substantial evidence that a project could: (1) substantially degrade the quality of the environment, (2) substantially reduce the habitat of a fish or wildlife species, (3) cause a fish or wildlife population to drop below self-sustaining levels, (4) threaten to eliminate a plant or animal community, or (5) reduce the number or restrict the range of a rare or endangered plant or animal.

The following are the significance thresholds for biological resources provided in the CEQA Appendix G environmental checklist, which states that a project would potentially have a significant effect if it:

Impact BIO-1. Would the project have a substantial adverse effect, either directly or through habitat modifications, on any species identified as being a candidate, sensitive, or special-status species in local or regional plans, policies, or regulations, or by CDFW or USFWS?

Impact BIO-2. Would the project have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, or regulations, or by CDFW or USFWS?

Impact BIO-3. Would the project have a substantial adverse effect on federally protected wetlands as defined by Section 404 of the Clean Water Act (including but not limited to marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means?

Impact BIO-4. Would the project interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impedes the use of native wildlife nursery sites?

Impact BIO-5. Would the project conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance?

Impact BIO-6. Would the project conflict with the provisions of an adopted habitat conservation plan, natural community conservation plan, or other approved local, regional, or state habitat conservation plan?

The evaluation of whether or not an impact to a particular biological resource is significant must consider both the resource itself and the role of that resource in a regional context. Substantial impacts are those that contribute to, or result in, permanent loss of an important resource, such as a population of a rare plant or animal. Impacts may be important locally because they result in an adverse alteration of existing site conditions but considered not significant because they do not contribute substantially to the permanent loss of that resource regionally. The severity of an impact and the offsetting benefits of mitigation are the primary determinants of whether or not that impact can be mitigated to a less-than-significant level.

There are no local biological resource protection ordinances applicable to the Project site and the Project will not impact an HCP.

6.2 Impact BIO-1: Special-Status Species

6.2.1 Direct Impacts

Special-Status Plants

One special status species Mojave monardella was identified as having a moderate potential to occur. This species could be directly impacted during vegetation removal and grading; however, habitat for this species is marginal and limited to the partially disturbed BESS facility portion of the Project site and the highly disturbed outer corners of the southern portion of the Project site. The species is CRPR 4 (CNPS 2025a), which means it has a limited distribution or infrequent throughout a broader area in California and its status should be monitored regularly. As such, the loss of the individuals on the Project site is not expected to reduce the number or restrict the range of Mojave monardella. Therefore, direct impacts to Mojave monardella are expected to be less than significant.

Western Joshua Tree

Seven western Joshua trees were observed within the Study Area. Western Joshua trees are candidates for state listing under CESA. Direct impacts to western Joshua trees are considered significant absent mitigation under CEQA. As required by **MM-BIO-1,** Western Joshua Tree Fee Payment, mitigation for direct impacts to all applicable western Joshua trees, their seed bank, and associated habitat will be fulfilled through conservation of western Joshua trees through a payment of fees consistent with The Western Joshua Tree Conservation Act or through payment to a CDFW-approved mitigation bank. Additionally, **MM-BIO-2**, Biological Monitoring, would require a biologist to monitor the initial vegetation removal and ground disturbance, and ensure impacts stay within the Project construction footprint. **MM-BIO-3**, Worker Environmental Awareness Program, requires that a program be developed that informs all construction personnel of the sensitive resources that occur on the Project site and measures to avoid and minimize impacts to those resources. With the implementation of MM-BIO-1 through MM-BIO-3, impacts to Joshua tree will be less than significant.

Special-Status Wildlife

The project could result in significant, direct impacts to four special-status wildlife species that were observed or have a moderate to high potential to occur within the Study Area: legless lizard, burrowing owl, ferruginous hawk, Swainson's hawk, and mountain plover. Additionally, potential significant direct impacts to two special-status species that have a low potential to occur, Mojave desert tortoise and Mohave ground squirrel. These species are analyzed due to their federal and state listing status. Potential direct impacts to these seven special status species and proposed avoidance/minimization measures are detailed below.

Legless Lizard

The majority of the Project site is generally comprised of highly disturbed soils. A small, isolated area comprised of tamarisk in the southern portion of the Project site may provide suitable habitat for legless lizard to occur. Although there is limited habitat within the Project site, this species was found to have a moderate potential to occur. With the implementation of MM-BIO-2 and MM-BIO-3, impacts to legless lizard will be less than significant.

Burrowing Owl

The Project site is mostly comprised of agricultural fields lacking any native vegetation or burrows. However, the perimeters of the fields have 10- to 12-foot tall berms with multiple small mammal burrows that can provide suitable burrow habitat for burrowing owl. No individuals of the species or other sign such as white-wash, owl pellets, or feathers were observed. However, the burrowing owl is a highly mobile, opportunistic species that has the potential to be a transient in the area during wintering and migration and could be present at the time of construction. Therefore, impacts to burrowing owl could occur and would be considered significant without mitigation. **MM-BIO-4**, Pre-construction Burrowing Owl Survey, would provide focused surveys for the species prior to construction and **MM-BIO-5**, Pre-Construction Nesting Bird Survey, would require an additional survey for nesting birds, including burrowing owl. With the implementation of MM-BIO-2 through MM-BIO-5, impacts to burrowing owl will be less than significant.

Ferruginous Hawk

Although there are limited foraging opportunities within the Study Area, ferruginous hawk may still occur as a transient species. Additionally, there are multiple records of this species in the Study Area and general vicinity during the wintering season. With the implementation of MM-BIO-2 and MM-BIO- 3, impacts to ferruginous hawk will be less than significant.

Swainson's Hawk

No Swainson's hawks or active Swainson's hawk nests were observed within the Project site or Study Area, so no direct mortality or injury is expected on Swainson's hawk individuals or active nests. If adult Swainson's hawk abandoned an active nest, then impacts to the species would be considered significant without mitigation. MM-BIO-5 would require a pre-construction nesting bird survey that would be expected to detect if Swainson's hawk is using the nest and restrict Project activities from occurring until the nest is considered inactive. With the implementation of MM-BIO-5, direct impacts to Swainson's hawk will be less than significant.

Mountain Plover

Limited foraging habitat is present within the project boundaries therefore, mountain plover can winter within the Study Area. However, this is a highly mobile species that will not remain onsite once construction activities are initiated. With the implementation of MM-BIO-2 and MM-BIO- 3, impacts to mountain plover will be less than significant.

Desert Tortoise

The Project site is extremely disturbed and lacks the vegetation that could support this species. As such, this species is not expected to have burrows or forage within the Project site. However, the species has low potential to occur on the Project site as a transient during local movement and could be impacted during Project construction activities, which would be significant. The Project does propose a fence be constructed around the perimeter as one of the first steps of construction and MM-BIO-2 requires a Biological Monitor be present during the construction of the fence. MM-BIO-3 requires a Worker Environmental Awareness Program for all people working on the Project site, which would include information on desert tortoise. With the implementation of MM-BIO-2 and MM-BIO- 3, impacts to desert tortoise will be less than significant.

It is expected that maintaining the fence would be part of providing site security during Project operation. It is also expected that the fence would keep most mid-sized to large terrestrial wildlife, including desert tortoise, out of the Project site during the operation of the Project.

Mohave Ground Squirrel

The species has low potential to occur on the Project site as a transient during local movement and could be impacted during Project construction activities, which would be significant. MM-BIO-3 requires a Biological Monitor be present during the construction of the fence. MM-BIO-4 requires a Worker Environmental Awareness Program for all people employed or otherwise working in the Project site, which would include information on Mohave ground squirrel. Therefore, implementation of MM-BIO-3 and MM-BIO-4 would reduce impacts to Mohave ground squirrel to less than significant and avoid take of individuals of the species. With the implementation of MM-BIO-2 and MM-BIO- 3, impacts to desert tortoise will be less than significant.

6.2.2 Indirect Impacts

Special-Status Plants

Special-status plants in the areas adjacent to the Project site could be inadvertently impacted should construction workers or vehicles stray out of the Project footprint. Invasive plant species could be introduced by the Project during construction and installation of landscaping that could alter the habitat for special-status plants in the Project vicinity. Invasive plants could compete with special-status plants for resources (i.e., water) and space. These indirect impacts could be significant without mitigation. Implementation of **MM-BIO-6**, Demarcation of Disturbance Limits, would avoid and minimize Project activities outside of the Project footprint. **MM-BIO-7**, Invasive Plant Species Prevention, would avoid and minimize the introduction of invasive plant species to the Project site. With the implementation of MM-BIO-6 and MM-BIO-7, indirect impacts to special-status plants will be less than significant.

Special-Status Wildlife

Indirect short-term and long-term impacts to special-status wildlife species discussed in Section 6.2.1 Direct impacts, may include both habitat degradation and effects on individuals. Indirect construction impacts to wildlife habitat may include fugitive dust; runoff, sedimentation, chemical pollution, and erosion; litter; and accidental clearing, grading, and trampling, as well as attracting predators. Trash and other garbage associated with construction activities can degrade vegetation communities and wildlife habitat and can attract nuisance and pest species that affect several of the wildlife guilds. Trash and debris include discarded construction-related materials, such as packaging materials, which may be dispersed into natural areas by wind. Trash generated by construction personnel, such as food packaging and cigarette butts, also can be dispersed by wind and water into natural areas. These indirect impacts could be significant without mitigation. Implementation of MM-BIO-6 Demarcation of Disturbance Limits, **MM-BIO-8**, Trash and debris, and MM-**BIO-9** Dust Control Monitoring, would reduce indirect impacts to special-status wildlife to less than significant.

Swainson's Hawk

The Project would directly impact 47.85 acres of potential foraging habitat for Swainson's hawk that is in the corners of the two parcels of the Project site, where California ground squirrel burrows were observed. Loss of foraging habitat could directly affect Swainson's hawk by reducing the available prey base for the nest sites located within

five miles of the Project, which could cause nest failure. The loss of foraging habitat would be considered significant without mitigation. **MM-BIO-10**, Swainson's Hawk Foraging Habitat Preservation, would preserve an appropriate amount of foraging habitat for the species. With implementation of MM-BIO-8 indirect impacts to Swainson's hawk would be less than significant.

6.3 Impact BIO-2: Riparian Habitat and Sensitive Communities

The Project site does not contain any riparian habitat or sensitive vegetation communities; therefore, direct impacts to riparian or sensitive vegetation communities are not anticipated to occur, and no additional measures are recommended. No direct impacts would occur.

6.4 Impact BIO-3: Jurisdictional Wetlands and Waters

No jurisdictional features were observed on the Project site. Nor were any aquatic features identified during the desktop review of aerial imagery (Google 2025), the National Hydrography Dataset and Watershed Boundary Dataset (USGS 2025), and the USFWS National Wetland Inventory (USFWS 2025b).

6.5 Impact BIO-4: Wildlife Corridors and Nurseries

The Project site does not function as a wildlife corridor or habitat linkage and does not occur within any designated wildlife corridors of habitat linkages. Direct or indirect impacts to wildlife corridors and habitat connectivity are not anticipated; and would therefore, be less than significant.

The Project would be required to comply with the MBTA and sections 3503, 3503.5, and 3513 of the California Fish and Game Code by preventing the disturbance of nesting birds during construction activities. This would generally involve clearing a Project site of all vegetation outside the nesting season (from September 1 through January 31) or if construction would commence within the nesting season (which generally runs from February 1 through August 31 and as early as February 1 for raptors), conducting a pre-construction nesting bird survey to determine the presence of nesting birds or active nests at a construction site. Any active nests and nesting birds must be protected from disturbance by construction activities through buffers between nest sites and construction activities. The buffer areas may be removed only after the birds have fledged. Compliance with the MBTA would ensure that the implementation of the Project would not interfere with the nesting of any native bird species. With the implementation of MM-BIO-5, direct and indirect impacts to nesting birds will be less than significant.

6.6 Impact BIO-5: Local Policies or Ordinances

Applicable local ordinances protecting biological resources within the biological Study Area is limited to the Los Angeles County Renewable Energy Ordinance, which requires the project applicant to retain a biologist to confirm that construction practices are compatible with continued and future vegetation growth. MM-BIO-2 requires the Applicant fund a County-approved Biological Monitor during Project construction to monitor construction activities and to ensure compliance with all mitigation measures. With the implementation of MM-BIO-2, the Project would be in compliance with the Los Angeles County Renewable Energy Ordinance and there would be no impact.

6.7 Impact BIO-6: HCP/NCCP

The project is not located within an area covered under any habitat conservation plan (HCP), natural community conservation plan (NCCP), or other approved local, regional, or state conservation planning areas (CDFW 2023). Therefore, the project would not be in conflict with any such plan. Accordingly, no impact would occur, and no mitigation is necessary.

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7 Mitigation Measures

The following mitigation measures shall be implemented during the proposed Project to reduce the significant impacts identified in Chapter 6 to a less-than-significant level. Significant direct and indirect impacts to special-status species and sensitive vegetation communities can be mitigated to less than significant with implementation of the following measures:

MM-BIO-1 **Western Joshua Tree Fee. Payment.** Mitigation for direct impacts to all applicable western Joshua tree individuals will be fulfilled through payment of the elected fees as described in Section 1927.3 of The Western Joshua Tree Conservation Act. In conformance with the fee schedule, mitigation will consist of payment of $2,500 for each western Joshua tree five meters or greater in height, $500 for trees 1 meter or greater but less than 5 meters in height and $340 for each western Joshua tree less than 1 meter in height. CDFW determines the final fee. Alternatively, mitigation will occur through off-site conservation or through a CDFW-approved mitigation bank, or as required by a Section 2081 Incidental Take Permit, if received.

MM-BIO-2 **Biological Monitoring.** Prior to the issuance of a grading permit, the Applicant shall submit the qualifications of the biologist(s) to the County of Los Angeles Regional Planning for review and approval. The Applicant shall fund a County-approved Biological Monitor during Project construction to monitor construction activities and to ensure compliance with all mitigation measures. The Biological Monitor shall be present on site during all native vegetation removal and initial ground disturbance activities in undeveloped areas, and until the fencing is completed for the entire Project site. Each day prior to the commencement of activities, the Biological Monitor shall be responsible for conducting a pre-construction clearance survey and any wildlife (common or special-status, excluding desert tortoise and Mohave ground squirrel) will be relocated offsite to a County of Los Angeles Regional Planning-approved area. Prior to the removal of the tamarisk on the Project site, the Biological Monitor will use a hand rake to search the soil beneath the canopy for legless lizard and move any discovered individuals into the County of Los Angeles Regional Planning-approved area. Should any desert tortoise or Mohave ground squirrel be found within the Project site, work activities will be halted until the individual has left the Project site on its own volition. The Biological Monitor has the authority to instruct the construction crew to open up any portion of the already constructed fence to allow the individual access to leave the Project site. Should the individual not leave the Project site, the applicant will consult with CDFW on additional measures to avoid impacts to the individual and whether an Incidental Take Permit (ITP) is warranted. It is expected that compensatory mitigation, at a minimum of 1:1, for the loss of 0.09 acres of native vegetation communities found on the Project site. The ITP would be expected to have conditions to avoid and minimize future impacts to listed species.

MM-BIO-3 **Worker Environmental Awareness Program**. An education program (Worker Environmental Awareness Program [WEAP]) for all people employed or otherwise working in the project area shall be administered before impacts occur. The WEAP shall consist of a presentation from the designated biologist that includes a discussion of the biology and status of western Joshua tree, legless lizard, burrowing owl, ferruginous hawk, mountain plover, Mojave desert tortoise, or Mohave ground squirrel, and other biological resources mitigation measures described in the California Environmental Quality Act document. Interpretation for non-English-speaking workers shall be

provided, and the same instruction shall be provided to any new workers before they are authorized to perform work in the project area. Upon completion of the WEAP, employees shall sign a form stating they attended the program and understand all protection measures. This training shall be repeated at least once annually for long-term and/or permanent employees who will be conducting work in the project area.

MM-BIO-4 **Pre-Construction Burrowing Owl Survey.** Prior to the initiation of construction activities, a qualified biologist shall conduct preconstruction surveys for burrowing owl to determine presence/absence of the species. The survey shall be conducted in accordance with the most current CDFW protocol within 30 days of site disturbance to determine whether the burrowing owl is present at the site. Preconstruction surveys shall include suitable burrowing owl habitat within the Project footprint and within 500 feet of the project footprint (or within an appropriate buffer as required in the most recent guidelines and where legal access to conduct the survey exists). If burrowing owls are not detected during the clearance survey, no additional mitigation is required.

If an occupied burrow is detected, the applicant shall immediately inform the California Department of Fish and Wildlife (CDFW) and a 160-foot no-disturbance buffer shall be maintained between the Project activities and the occupied area. The owl will be monitored daily by the Biological Monitor (MM-BIO-3) until it has left the site on its own volition. Construction work may proceed within the no-disturbance buffer after the owl has left the site. Results of the surveys and monitoring shall be provided to the County of Los Angeles Regional Planning. If sufficient no-disturbance buffers cannot be established, artificial burrows could be used as replacement burrows on- or off-site (i.e., in the off-site Swainson's hawk mitigation land). However, no take of burrowing owl shall occur without prior authorization in the form of an Incidental Take Permit (ITP) pursuant to California Fish and Game Code Section 2081. If impacts to burrowing owl cannot be feasibly avoided through implementation of the no-disturbance buffer, the applicant will consult with CDFW and obtain appropriate take authorization through the California Endangered Species Act ITP process.

MM-BIO- 5 **Pre-Construction Nesting Bird Survey:** Project construction should be conducted in compliance with the conditions set forth in the MBTA and California Fish and Game Code to protect active bird/raptor nests. To the maximum extent feasible, vegetation removal should occur during the non-breeding season for nesting birds (generally late September to early March) and nesting raptors (generally early July to late January) to avoid impacts to nesting birds and raptors. If the project requires that work be initiated during the breeding season for nesting birds (March 1–September 30) and nesting raptors (February 1–June 30), in order to avoid direct impacts on active nests, a pre-construction survey should be conducted in the Project site by qualified Biologists (approved by the County of Los Angeles Regional Planning) for nesting birds and/or raptors within three days prior to Project activities. If the Biologist does not find any active nests within or immediately adjacent to the impact areas, the vegetation clearing/construction work should be allowed to proceed.

If the Biologist finds an active nest within or immediately adjacent to the construction area and determines that the nest may be impacted or breeding activities substantially disrupted, the Biologist should delineate an appropriate buffer zone around the nest depending on the sensitivity of the species and the nature of the construction activity. To protect any nest site, the following restrictions to construction activities should be required until nests are no longer active, as

determined by a qualified Biologist (someone who has more than three years of experience of conducting nesting bird surveys and monitoring active nests during construction): (1) clearing limits should be established within a buffer around any occupied nest; and (2) access and surveying should be restricted within the buffer of any occupied nest, unless otherwise determined by a qualified Biologist (someone who has more than five years of experience of conducting nesting bird surveys and monitoring active nests during construction). The buffer should be 100-300 feet for non-raptor nesting birds and 300–500 feet for nesting raptors. Construction can proceed into the buffer when the qualified Biologist has determined that the nest is no longer active.

MM-BIO-6 **Demarcation of Disturbance Limits.** Prior to commencement of earthwork in the undeveloped portion of the Project site, the construction limits shall be clearly demarcated (e.g., installation of flagging or temporary high visibility construction fence), as recommended by Biological Monitor. All construction activities including equipment staging and maintenance shall be conducted within the marked disturbance limits to prevent inadvertent disturbance to sensitive vegetation communities outside the limits of work. The flagging shall be maintained throughout construction.

MM-BIO-7 **Invasive Plant Species Prevention.** The Project shall not include invasive plant species listed on the California Invasive Plant Council inventory in Project landscaping palettes. Project landscape palettes shall be reviewed and approved by the County of Los Angeles Regional Planning to ensure that invasive plant species are excluded. In addition, to prevent the spread of invasive plant species during construction and until the establishment of common landscaped areas associated with the Project (for a period of up to five years): (1) All equipment shall be washed prior to entering and prior to leaving the Project site in an upland location where any seed material from invasive species will be contained and (2) All vegetative material removed from the Project impact footprint shall be transported in a covered vehicle and will be disposed of at a certified disposal site.

MM-BIO-8 **Trash and Debris.** The following avoidance and minimization measures shall be implemented during project construction.

1) Fully covered trash receptacles that are animal-proof will be installed and used by the operator to contain all food, food scraps, food wrappers, beverage containers, and other miscellaneous trash. Trash contained within the receptacles will be removed at least once a week from the Project site.
2) Construction work areas shall be kept clean of debris, such as cable, trash, and construction materials. All construction/contractor personnel shall collect all litter, vehicle fluids, and food waste from the Project site on a daily basis.

MM-BIO- 9 **Dust Control Monitoring.** To avoid fugitive dust, all construction activities shall implement dust control measures such as regular watering of exposed soils and unpaved access roads. Water trucks or sprinkler systems will be used to maintain adequate moisture levels, especially during dry and windy conditions. Stockpiles of soil and debris will be covered or stabilized to prevent wind erosion. Additionally, vehicle speeds will be limited to 15 mph on unpaved surfaces to reduce airborne particulate matter.

MM-BIO-10 **Swainson's Hawk Foraging Habitat Preservation.** To compensate for the loss of Swainson's hawk foraging habitat, the Applicant will purchase credits at a CDFW-approved mitigation bank. The

credits will be provided at a ratio based on the quality of the mitigation land relative to the impacted habitat on the Project site. The ratio of such compensation will be determined as follows:

- A ratio of one acre of preservation land for each three acres of impacted foraging habitat if the preservation lands support higher quality foraging habitat that is within five miles of potential nesting habitat.
- A ratio of one acre of preservation land for each two acres of impacted foraging habitat if the replacement land is unoccupied irrigated land that is within five miles of potential nesting habitat and provides higher quality foraging habitat.
- A ratio of one acre of preservation land for each one acre of impacted foraging habitat if the preservation land provides similar foraging habitat and is within five miles of potential nesting habitat.

The Project is within the CDFW-approved Petersen Ranch Mitigation Bank service area, and the bank has been approved to sell Swainson's hawk credits. The Applicant will purchase credits prior to the issuance of the grading permit for the Project. Proof of the purchase of the credits will be provided to County Planning for confirmation.

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Appendix A
Photo Exhibit



Photo 1. Representative photo of the disturbed habitat onsite with the large berms in background.

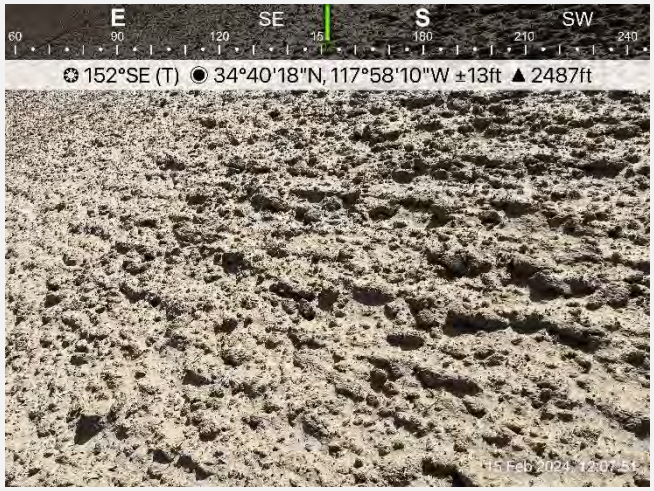


Photo 2. Representative photo of the barren ground throughout the majority of the Project Site.



Photo 3. Overview of the mapped barren ground within the Project Site.



Photo 4. Representative photo of the northwestern corner of the man-made irrigation well.



Photo 5. Representative photo of the Western Joshua tree individual mapped outside of the Project boundaries, within the Study Area.



Photo 6. Representative photo of the disturbed habitat with large berms on the left and ornamental wind row to the right.



Photo 7. Representative photo of northwestern project parcel, showing four-wing saltbush scrub vegetation community which covers parcel.



Photo 8. Photo displays disturbed habitat and several large Joshua trees present within the Study Area north of the northeastern project parcel.



Photo 9. Photo shows large Joshua tree within northeastern project parcel. Photo taken from northern edge of parcel.



Photo 10. Overview of disturbed and developed areas within northeastern project parcel. Photo taken from western edge of parcel.



Photo 11. Overview of disturbed and developed areas of northeastern parcel, taken from southern edge.



Photo 12. Photo displays dead Joshua tree at southern edge of northeastern parcel.

Appendix B
Plant and Wildlife Compendia

Vascular Species

Eudicots

ASTERACEAE – SUNFLOWER FAMILY

Baccharis salicifolia—mulefat

Ericameria nauseosa– rubber rabbitbrush

Lasthenia gracilis – needle goldfields

BORAGINACEAE – BORAGE FAMILY

Amsinckia menziesii – Menzies' fiddleneck

BRASSICACEAE – MUSTARD FAMILY

* *Raphanus raphanistrum*—wild radish
* *Sisymbrium altissimum*—tall tumblemustard
* *Sisymbrium irio*—London rocket

CHENOPODIACEAE – GOOSEFOOT FAMILY

Atriplex polycarpa – allscale

Atriplex canescens – Four-wing saltbush

* *Salsola tragus*—prickly Russian thistle

FABACEAE – LEGUME FAMILY

* *Robinia pseudoacacia* – black locust

GERANIACEAE – GERANIUM FAMILY

* *Erodium cicutarium* – redstem stork's bill

SALICACEAE – WILLOW FAMILY

Populus fremontii—Fremont cottonwood

SIMAROUBACEAE – QUASSIA OR SIMAROUBA FAMILY

* *Ailanthus altissima* – tree of heaven

TAMARICACEAE—TAMARISK FAMILY

* *Tamarix ramosissima*—tamarisk

ZYGOPHYLLACEAE—CALTROP FAMILY

Larrea tridentata –creosote bush

Gymnosperms and Gnetophytes

CUPRESSACEAE—CYPRESS FAMILY

* *Hesperocyparis sargentii*—Sargent cypress

Monocots

AGAVACEAE – AGAVE FAMILY

Yucca brevifolia – Joshua tree

POACEAE – GRASS FAMILY

* *Bromus tectorum* – cheatgrass
* *Bromus madritensis* – compact brome
* *Hordeum murinum* – mouse barley
* *Schismus barbatus* – common Mediterranean grass

Wildlife Species

Birds

Blackbirds, Orioles & Allies

ICTERIDAE - BLACKBIRDS

Euphagus cyanocephalus – Brewer's blackbird

Sturnella neglecta – western meadowlark

Finches

FRINGILLIDAE – FRINGILLINE AND CARDUELINE FINCHES AND ALLIES

Haemorhous mexicanus – house finch

Flycatchers

TYRANNIDAE – TYRANT FLYCATCHERS

Tyrannus vociferans – Cassin's kingbird

Jays, Magpies and Crows

CORVIDAE – CROWS AND JAYS

Corvus corax – common raven

Larks

ALAUDIDAE - LARKS

Eremophila alpestris – horned lark

Mockingbirds and thrashers

MIMIDAE – MOCKINGBIRDS & THRASHERS

Mimus polyglottos – northern mockingbird

New World Vultures

CATHARTIDAE – NEW WORLD VULTURES

Cathartes aura – Turkey vulture

Old World Sparrows

PASSERIDAE – OLD WORLD SPARROWS

* *Passer domesticus* – house sparrow

Pigeons and Doves

COLUMBIDAE – PIGEONS AND DOVES

Patagioenas fasciata – band-tailed pigeon

Zenaida macroura – mourning dove

Starlings and Allies

STURNIDAE – STARLINGS

* *Sturnus vulgaris* – European starling

Thrushes

TURDIDAE - THRUSHES

Sialia currucoides – mountain bluebird

Wagtails and Pipits

MOTACILLIDAE – WAGTAILS AND PIPITS

Anthus rubescens – American pipit

New World Sparrows

PASSERELLIDAE – NEW WORLD SPARROWS

Melospiza melodia – song sparrow

Mammals

Squirrels

SCIURIDAE - SQUIRRELS

Otospermophilus beechyi – California ground squirrel

Reptiles

Lizards

PHRYNOSOMATIDAE – IGUANID LIZARDS

Uta stansburiana – common side-blotched lizard

TEIIDAE – WHIPTAIL LIZARDS

Aspidoscelis tigris – tiger whiptail

* signifies introduced (non-native) species

Appendix C

Assessment of Special-Status Plant Species Potentially Occurring in the Study Area

Scientific Name	Common Name	Status (Federal/State/CRPR)	Primary Habitat Associations/ Life Form/ Blooming Period/ Elevation Range (feet)	Potential to Occur
Astragalus hornii var. *hornii*	Horn's milk-vetch	None/None/1B.1	Meadows and seeps, Playas; Alkaline, Lake Margins/annual herb/May–Oct/195–2,790	Not expected to occur. Wetland and alkali habitat not present in the Study Area. There are no recent occurrences on this species in the vicinity (CDFW 2024; CNPS 2024).
Astragalus preussii var. *laxiflorus*	Lancaster milk-vetch	None/None/1B.1	Chenopod scrub/perennial herb/Mar–May/2295–2295	Not expected to occur. The Study Area is disturbed and suitable alkali flat habitat not present. All recorded occurrences of this species are historic, with a 30-year-old record 10.3 miles northeast of the Study Area (CDFW 2024; CNPS 2024).

Scientific Name	Common Name	Status (Federal/State/CRPR)	Primary Habitat Associations/ Life Form/ Blooming Period/ Elevation Range (feet)	Potential to Occur
Calochortus striatus	alkali mariposa-lily	None/None/1B.2	Chaparral, Chenopod scrub, Meadows and seeps, Mojavean desert scrub; Alkaline, Mesic/perennial bulbiferous herb/Apr–June/230–5,235	Not expected to occur. Desert scrub habitat is present in the Study Area, but it is poor quality and minimal. Numerous recent occurrences of this species to the north and west of the project site, beginning 7 miles away from the Study Area (CDFW 2024, CNPS 2024).

Scientific Name	Common Name	Status (Federal/State/CRPR)	Primary Habitat Associations/ Life Form/ Blooming Period/ Elevation Range (feet)	Potential to Occur
Calystegia peirsonii	Peirson's morning-glory	None/None/4.2	Chaparral, Chenopod scrub, Cismontane woodland, Coastal scrub, Lower montane coniferous forest, Valley and foothill grassland/perennial rhizomatous herb/Apr–June/100–4920	Not expected to occur. All recent occurrences of this species are focused to the south and southwest, in areas with more suitable chaparral habitat (CDFW 2024; CNPS 2024).
Canbya candida	white pygmy-poppy	None/None/4.2	Joshua tree "woodland", Mojavean desert scrub, Pinyon and juniper woodland; Granitic, Gravelly, Sandy/annual herb/Mar–June/1,970–4,790	Low potential to occur. Habitat is present in the Study Area, but disturbed and sparse. There are numerous occurrences of this species in the Study Area but nothing recent or in the immediate vicinity (CDFW 2024; CNPS 2024).

Scientific Name	Common Name	Status (Federal/State/CRPR)	Primary Habitat Associations/ Life Form/ Blooming Period/ Elevation Range (feet)	Potential to Occur
Castilleja plagiotoma	Mojave paintbrush	None/None/4.3	Great Basin scrub (alluvial), Joshua tree "woodland", Lower montane coniferous forest, Pinyon and juniper woodland/perennial herb (hemiparasitic)/Apr–June/985–8205	Not expected to occur. Suitable habitat is not present in the Study Area. There are no recorded occurrences in the vicinity.
Chorizanthe parryi var. *parryi*	Parry's spineflower	None/None/1B.1	Chaparral, Cismontane woodland, Coastal scrub, Valley and foothill grassland; Openings, Rocky (sometimes), Sandy (sometimes)/annual herb/Apr–June/900–4,005	Not expected to occur. Suitable habitat is not present in the Study Area. The only record of this species in the vicinity is historic (CDFW 2024). All recent occurrences are a considerable distance southeast (CDFW 2024; CNPS 2024).
Chorizanthe spinosa	Mojave spineflower	None/None/4.2	Chenopod scrub, Joshua tree "woodland", Mojavean desert scrub, Playas; Alkaline (sometimes)/annual herb/Mar–July/20–4,265	Low potential to occur. Habitat is present but sparse and located on the margins of the Study Area. There are no occurrences of this species in the vicinity.
Cymopterus deserticola	desert cymopterus	None/None/1B.2	Joshua tree "woodland", Mojavean desert scrub; Sandy/perennial herb/Mar–May/2,065–4,920	Low potential to occur. Habitat is present but sparse and located on the margins of the Study Area and in the northern portion with partially disturbed soils. There are no occurrences of this species in the vicinity.
Diplacus johnstonii	Johnston's monkeyflower	None/None/4.3	Lower montane coniferous forest (disturbed areas, gravelly, roadsides, rocky, scree)/annual herb/May–Aug/3200–9580	Not expected to occur. The Study Area is outside of the species' known elevation range and all CNDDB occurrences are in the mountainous regions to the south (CDFW 2024).

Scientific Name	Common Name	Status (Federal/State/CRPR)	Primary Habitat Associations/ Life Form/ Blooming Period/ Elevation Range (feet)	Potential to Occur
Eriastrum rosamondense	Rosamond eriastrum	None/None/1B.1	Chenopod scrub (openings), Vernal pools (edges); Alkaline, Sandy (often)/annual herb/Apr–May(June–July)/2,295–3,855	Not expected to occur. Suitable vernal pool and chenopod scrub habitat is not present in the Study Area. There are no CNDDB records of this species in the vicinity (CDFW 2024).
Eriophyllum mohavense	Barstow woolly sunflower	None/None/1B.2	Chenopod scrub, Mojavean desert scrub, Playas/annual herb/Mar–May/1640–3150	Not expected to occur. Suitable habitat is not present in the Study Area. There are no CNDDB records of this species in the vicinity (CDFW 2024).
Goodmania luteola	golden goodmania	None/None/4.2	Meadows and seeps, Mojavean desert scrub, Playas, Valley and foothill grassland; Alkaline (sometimes), Clay (sometimes)/annual herb/Apr–Aug/65–7,220	Not expected to occur. Desert scrub habitat is present in the Study Area, but it is poor quality and minimal and located on the margins of the project area. There are no CNDDB records of this species in the vicinity (CDFW 2024).
Loeflingia squarrosa var. *artemisiarum*	sagebrush loeflingia	None/None/2B.2	Desert dunes, Great Basin scrub, Sonoran desert scrub; Sandy/annual herb/Apr–May/2,295–5,300	Not expected to occur. Suitable habitat not present in the Study Area and there are no occurrences of this species in the vicinity.
Lycium torreyi	Torrey's box-thorn	None/None/4.2	Mojavean desert scrub, Sonoran desert scrub; Rocky, Sandy, Streambanks, Washes/perennial shrub/(Jan–Feb)Mar–June(Sep–Nov)/-,165–4,005	Not expected to occur. Though minimal scrub habitat is present in the Study Area, site is highly disturbed and nearby occurrences are focused in wash areas (Calflora 2024).
Monardella exilis	Mojave monardella	None/None/4.2	Chenopod scrub, Desert dunes, Great Basin scrub, Joshua tree "woodland", Lower montane coniferous forest, Mojavean desert scrub, Pinyon and juniper woodland; Sandy/annual herb/Apr–Sep/1,970–6,725	Moderate potential to occur. Suitable habitat may be present in the northern portion, but minimal, in the southern portion of the Study Area. There are two recent occurrences 3.5 miles south of the Project site (Jepson 2024).

Scientific Name	Common Name	Status (Federal/State/CRPR)	Primary Habitat Associations/ Life Form/ Blooming Period/ Elevation Range (feet)	Potential to Occur
Muilla coronata	crowned muilla	None/None/4.2	Chenopod scrub, Joshua tree "woodland", Mojavean desert scrub, Pinyon and juniper woodland/perennial bulbiferous herb/Mar–Apr(May)/2200–6430	Low potential to occur. Suitable habitat present, but minimal, in the northern portion of the Study Area. There are recent occurrences beginning 6.5 miles west of the project site (Calflora 2024).
Opuntia basilaris var. *brachyclada*	short-joint beavertail	None/None/1B.2	Chaparral, Joshua tree "woodland", Mojavean desert scrub, Pinyon and juniper woodland/perennial stem/Apr–June(Aug)/1395–5905	Low potential to occur. The Study Area is outside the range of the species. There are recorded occurrences 13.5 miles south of the Study Area in the foothill areas of the nearby mountain range (Calflora 2024).
Plagiobothrys parishii	Parish's popcornflower	None/None/1B.1	Great Basin scrub, Joshua tree "woodland"; Alkaline, Mesic/annual herb/Mar–June(Nov)/2,460–4,595	Not expected to occur. Suitable habitat not present in the Study Area. The Study Area lacks the mesic soils for this species to occur. There are not recent records of this species occurring in the vicinity.
Puccinellia simplex	California alkali grass	None/None/1B.2	Chenopod scrub, Meadows and seeps, Valley and foothill grassland, Vernal pools; Alkaline, Flats, Lake Margins, Vernally Mesic/annual herb/Mar–May/5–3,050	Not expected to occur. Suitable habitat not present in the Study Area. There are 30 year old records of this species 12.5 miles north of the Study Area, in lake margin habitat (Calflora 2024).
Syntrichopappus lemmonii	Lemmon's syntrichopappus	None/None/4.3	Chaparral, Joshua tree "woodland", Pinyon and juniper woodland; Gravelly (sometimes), Sandy (sometimes)/annual herb/Apr–May(June)/1,640–6,005	Low potential to occur. Some habitat present in the Study Area, but minimal. There are recorded occurrences 15 miles south of the Study Area, in the foothill and mountainous (Calflora 2024).
Yucca brevifolia	western Joshua tree	None/SC/CBR	Great Basin grassland, Great Basin scrub, Joshua tree woodland, Mojavean desert scrub, Pinyon and juniper woodland, Sonoran desert scrub, Valley and foothill grassland/perennial leaf succulent/Apr–May/1312–6562	Known to occur. 7 western Joshua trees were observed within the Study Area. Additional individuals located just outside of the Study Area.

Notes:

[1] **Status Legend:**

Federal Designations

FE Federally listed endangered
FT Federally listed as threatened

State Designations

SC State candidate
SE State listed as endangered
SR State Rare

California Rare Plant Ranking (CRPR)

1B Plants rare, threatened, or endangered in California and elsewhere
2B Plants rare, threatened, or endangered in California but more common elsewhere
3: Review List: Plants about which more information is needed
4: Watch List: Plants of limited distribution
.1 Seriously endangered in California (over 80% of occurrences threatened/high degree and immediacy of threat)
.2 Fairly endangered in California (20% to 80% of occurrences threatened)
.3 Not very endangered in California (less than 20% of occurrences threatened or no current threats known)
CBR Considered but rejected

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Appendix D

Assessment of Special-Status Wildlife Species Potentially Occurring in the Study Area

Scientific Name	Common Name	Status[1] (Federal/State)	Habitat	Potential to Occur
Birds				
Accipiter cooperii (nesting)	Cooper's hawk	None/WL	Nests and forages in dense stands of live oak, riparian woodlands, or other woodland habitats often near water	Not expected to occur (nesting). The Project site lacks suitable woodland habitat for nesting and foraging, and there are no recent CNDDB occurrences in the Study Area (CDFW 2024a).
Agelaius tricolor (nesting colony)	tricolored blackbird	BCC/SSC, ST	Nests near freshwater, emergent wetland with cattails or tules, but also in Himalayan blackberry; forages in grasslands, woodland, and agriculture	Not expected to occur. This species requires wetland habitat which is not present in the Project site. The nearest known breeding colonies at Lake Palmdale and Piute Ponds are approximately 11 miles from the Study Area (CDFW 2024b).
Asio flammeus (nesting)	short-eared owl	BCC/SSC	Grassland, prairies, dunes, meadows, irrigated lands, and saline and freshwater emergent wetlands	Low potential to occur. Suitable marsh and grassland habitat not present, and nesting trees extremely minimal. Though there are no recent CNDDB occurrences (CDFW 2024a), surrounding agriculture fields could support foraging and transient individuals may occur.

Scientific Name	Common Name	Status[1] (Federal/State)	Habitat	Potential to Occur
Athene cunicularia (burrow sites & some wintering sites)	burrowing owl	BCC/SSC	Nests and forages in grassland, open scrub, and agriculture, particularly with ground squirrel burrows	High potential to occur. Numerous burrows throughout the Project site along with ground squirrel activity and suitable foraging habitat. There is a high number of occurrences beginning 3-5 miles north and east of the Project site (CDFW 2024a).
Buteo regalis (wintering)	ferruginous hawk	None/WL	Winters and forages in open, dry country, grasslands, open fields, agriculture	High potential to occur. There are records of the species in the Study Area during the wintering season (eBird 2024). Foraging habitat and prey also present in Study Area and surrounding vicinity. There is a single CNDDB occurrence 4.8 miles west (CDFW 2024a) as well as numerous nearby observations of this species recorded on iNaturalist (2024), to the immediate north

Scientific Name	Common Name	Status[1] (Federal/State)	Habitat	Potential to Occur
Buteo swainsoni (nesting)	Swainson's hawk	None/ST	Nests in open woodland and savanna, riparian, and in isolated large trees; forages in nearby grasslands and agricultural areas such as wheat and alfalfa fields and pasture	Moderate potential to occur (nesting). Suitable nesting habitat extremely sparse on the Project site, but present (large trees), however no nests were observed during the April 2025 reconnaissance. There are numerous CNDDB occurrences within two miles of the Project site (CDFW 2025a). Foraging habitat and prey are present in Study Area and surrounding vicinity. There are numerous CNDDB occurrences within 2 miles of the Project site (CDFW 2024a)
Charadrius montanus (wintering)	mountain plover	BCC/SSC	Winters in shortgrass prairies, plowed fields, open sagebrush, and sandy deserts	High potential to occur. Wintering habitat present in the Study Area. There is a 2011 CNDDB occurrence within the Study Area and an eBird record adjacent to the west and numerous others in the vicinity (CDFW 2024a).
Charadrius nivosus nivosus (nesting)	western snowy plover	FT, BCC/SSC	On coasts nests on sandy marine and estuarine shores; in the interior nests on sandy, barren or sparsely vegetated flats near saline or alkaline lakes, reservoirs, and ponds	Not expected to occur. Suitable nesting and foraging habitat not present.
Falco mexicanus (nesting)	prairie falcon	None/WL	Forages in grassland, savanna, rangeland, agriculture, desert scrub, alpine meadows; nest on cliffs or bluffs	Not expected to occur (nesting). Suitable cliff habitat to support nesting could be present in the vicinity (e.g., Alpine Butte and Piute Butte) and foraging habitat within the Study Area and adjacent lands could result in transient individuals occurring within the Study Area. There are historic CNDDB records of this species 4.5 miles east (CDFW 2024a), and recent iNaturalist (2024) observations within the Study Area.
Lanius ludovicianus (nesting)	loggerhead shrike	None/SSC	Nests and forages in open habitats with scattered shrubs, trees, or other perches	Low potential to occur. Suitable nesting habitat is generally sparse and focused to the outer boundaries of the Study Area (tamarisk thickets), but foraging habitat is abundant. There are three CNDDB records of this species occurring in 2008, with the closest being 8.0 miles to the west (CDFW 2024a).

Scientific Name	Common Name	Status[1] (Federal/State)	Habitat	Potential to Occur
Plegadis chihi (nesting colony)	white-faced ibis	None/WL	Nests in shallow marshes with areas of emergent vegetation; winter foraging in shallow lacustrine waters, flooded agricultural fields, muddy ground of wet meadows, marshes, ponds, lakes, rivers, flooded fields, and estuaries	Not expected to occur. Suitable wetland or shallow water habitat not present.
Toxostoma lecontei	LeConte's thrasher	BCC/SSC	Nests and forages in desert wash, desert scrub, alkali desert scrub, desert succulent, and Joshua tree habitats; nests in spiny shrubs or cactus	Low potential to occur. Suitable nesting habitat is minimal and desert scrub habitat present in the Study Area is marginal and generally too vegetated to support foraging. There are historic CNDDB occurrences of this species beginning 3.4 miles southeast (CDFW 2024a).
Vireo bellii pusillus (nesting)	least Bell's vireo	FE/SE	Nests and forages in low, dense riparian thickets along water or along dry parts of intermittent streams; forages in riparian and adjacent shrubland late in nesting season	Not expected to occur. Suitable riparian habitat is not present. There is a single CNDDB occurrence of this species from 2005, 11.1 miles southwest (CDFW 2024a).
Invertebrates				
Bombus crotchii	Crotch bumble bee	None/SCE	Open grassland and scrub communities supporting suitable floral resources.	Not expected to occur. Suitable habitat to support sufficient quantities of this species' food plants (Chaenactis spp., Lupinus spp., Phacelia spp., Salvia spp., Eriogonum spp.) (Williams et al. 2014) to support the annual lifecycle of the species are not found in the Study Area. The nearest CNDDB occurrences are 12.6 miles northeast (CDFW 2024a).

Scientific Name	Common Name	Status[1] (Federal/State)	Habitat	Potential to Occur
Mammals				
Corynorhinus townsendii	Townsend's big-eared bat	None/SSC	Mesic habitats characterized by coniferous and deciduous forests and riparian habitat, but also xeric areas; roosts in limestone caves and lava tubes, man-made structures, and tunnels	Not expected to occur. This species is extremely sensitive to human disturbance and is unlikely to roost due to high traffic roads and agriculture operations nearby. Furthermore, this species has a strong association to cave and cave-like structures (Miner and Stokes 2005), which are not present in the Study Area. There are no recent occurrences of this species in the area (CDFW 2024a).
Eumops perotis californicus	western mastiff bat	None/SSC	Chaparral, coastal and desert scrub, coniferous and deciduous forest and woodland; roosts in crevices in rocky canyons and cliffs where the canyon or cliff is vertical or nearly vertical, trees, and tunnels	Not expected to occur. Suitable natural and unnatural roosting habitat is not present in the Study Area. There are no recent occurrences of this species in the area (CDFW 2024a).
Onychomys torridus ramona	southern grasshopper mouse	None/SSC	Grassland and sparse coastal scrub	Not expected to occur. Suitable habitat not present. There is a single historic occurrence 12.8 miles southeast (CDFW 2024a).
Puma concolor	mountain lion – Southern California/Central Coast ESU	None/SC	Scrubs, chaparral, riparian, woodland, and forest; rests in rocky areas and on cliffs and ledges that provide cover; most abundant in riparian areas and brushy stages of most habitats throughout California, except deserts	Not expected to occur. Suitable natal den, resting, and foraging habitat not present. Though suitable habitat is present in the surrounding mountain ranges that serve as habitat linkages, transitory individuals are unlikely due to the Project site location in human impacted area (Center for Biological Diversity and the Mountain Lion Foundation 2019).
Spermophilus (*Xerospermophilus*) *mohavensis*	Mohave ground squirrel	None/ST	Desert scrub habitats including those dominated by creosote bush and burrobush, desert sink scrub, and desert saltbush scrub	Low potential to occur. There are numerous historical and recent records of this species occurring in the vicinity, with most recent being 2008 and 2011 occurrences 11-13 miles northeast of the Study Area (CDFW 2024a). However, the Study Area provides marginal habitat for the species.

Scientific Name	Common Name	Status[1] (Federal/State)	Habitat	Potential to Occur
Taxidea taxus	American badger	None/SSC	Dry, open, treeless areas; grasslands, coastal scrub, agriculture, and pastures, especially with friable soils	Low potential to occur. Observed rodent presence could support foraging. However, there are no recent records of this species in the area (CDFW 2024a), and no burrows or digs associated with the species were observed.
Reptiles				
Anniella pulchra	northern California legless lizard	None/SSC	Coastal dunes, stabilized dunes, beaches, dry washes, valley–foothill, chaparral, and scrubs; pine, oak, and riparian woodlands; associated with sparse vegetation and sandy or loose, loamy soils	Moderate potential to occur. Limited habitat is present in the study are under the Tamarisk trees in the southern portion of the project site. Most of the soils within the Project site have been substantially altered due to persistent agricultural practices. There are recent CNDDB occurrences 8 miles southwest of the Project site (CDFW 2024a).
Arizona elegans occidentalis	California glossy snake	None/SSC	Arid scrub, rocky washes, grasslands, chaparral, open areas with loose soil	Low potential to occur. Soils and habitat present in Study Area have limited potential to support the species and the most recent CNDDB occurrence is from 2015 and is 9.8 miles south of the Project site (CDFW 2024a).
Gopherus agassizii	Mojave desert tortoise	FT/ST	Arid and semi-arid habitats in Mojave and Sonoran Deserts, including sandy or gravelly locations along riverbanks, washes, sandy dunes, canyon bottoms, desert oases, rocky hillsides, creosote flats, and hillsides	Low potential to occur. There are several CNDDB records of this species to the east and northeast (CDFW 2025a). Suitable burrowing habitat is sparse but present in southern and southeastern area of the Study Area, outside of the Project site. The majority of the Project site has not been identified as predicted habitat for the species (CDFW 2025b), and much of the surrounding has been identified as having low potential for the species (CDFW 2024b). The Study Area was not identified as having structural connectivity to core habitat, so the species is not expected to occur as a transient during dispersal (CDFW 2025b).

Scientific Name	Common Name	Status[1] (Federal/State)	Habitat	Potential to Occur
Phrynosoma blainvillii	Blainville's horned lizard	None/SSC	Open areas of sandy soil in valleys, foothills, and semi-arid mountains including coastal scrub, chaparral, valley–foothill hardwood, conifer, riparian, pine–cypress, juniper, and annual grassland habitats	Not expected to occur. Suitable habitat not present. There are no recent CNDDB occurrences of this species in the area (CDFW 2024a) and most recent iNaturalist occurrences in the area are focused near wash habitat that is dominated by alluvium and sandy soil, and sparsely vegetated (iNaturalist 2024).

Notes:

[1] **Status Legend:**

Federal Designations

BCC U.S. Fish and Wildlife Service Bird of Conservation Concern
FE Federally listed endangered
FT Federally listed as threatened
WL U.S. Fish and Wildlife Service Watch List

State Designations

FP Fully protected species
SC State candidate for listing as threatened
SCE State candidate for listing as endangered
SE State listed as endangered
SSC California Department of Fish and Wildlife Species of Special Concern
ST State listed as threatened

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Appendix D

Cultural Resources Inventory Report (Confidential)

DRAFT

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May 28, 2025 14482.04

Max Margolin
Upstream Energy

Subject: Archaeological Resources Inventory Letter Report for the Pronghorn Solar and Storage Project, Los Angeles County, California

Dear Max Margolin:

This letter provides a summary of the archaeological resources inventory conducted by Dudek for the Pronghorn Solar and Storage Project (Project), located in unincorporated Los Angeles County, California. The County of Los Angeles is the lead agency responsible for compliance with the California Environmental Quality Act (CEQA). In accordance with CEQA and local regulations, Dudek performed an archaeological resources inventory that included a records search, an archival information review, correspondence with the Native American Heritage Commission (NAHC), and an intensive-level archaeological resources pedestrian survey of the Project area.

Project Location and Description

Pronghorn Solar Plus, LLC is proposing to construct and operate a utility-scale photovoltaic (PV) solar energy generation and battery energy storage system (BESS) within unincorporated Los Angeles County, California (Figure 1, Project Location). The Project will have up to a 50-megawatt (MW) PV solar power capacity, and the associated BESS will have up to a 50 MW power capacity. The Project will include construction of collection lines and a Project substation, which will connect the Project to the existing Southern California Edison (SCE) Piute Substation (Figure 2, Project Area). A generation transmission (gen-tie) line will directly connect the Project substation to the existing SCE Piute Substation.

The Project falls within Public Lands Survey System (PLSS) Sections 17, 18, 20 and 29 of Township 7 North and Range 10 West of the *Alpine Butte, California* 7.5-minute U.S. Geological Survey Quadrangle map. The Project area is located near the intersection of 90th Street East and East Avenue L, approximately 10 miles east of State Route 14. The site is composed of Assessor's Parcel Numbers 3378-003-001, 3378-004-008, 3376-006-012, and 3376-011-035. The Project's PV facility will be located on APNs 3378-003-001 and 3378-004-008 (see Figure 2, Solar Facility). The Project's BESS facility will be located on APN 3376-006-012 (see Figure 2, Pronghorn BESS) and the Project substation will be located on APN 3376-011-035 (See Figure 2, Project Substation). The medium voltage collection lines will be located on the western perimeter of APNs 3376-026-026, -027, -028, -029, -030, -031, -032, and -033 which are located in the City of Lancaster and the remainder of the PV collection lines will be located

via Franchise Agreement within 90th Street East existing road right-of-way (See Figure 2, Gen-Tie Corridor/Collector Line). The existing SCE Piute Substation is located on APN 3376-011-800.

Regulatory Framework

The Project is subject to compliance with CEQA and local regulatory conditions. No federal nexus is presently anticipated.

State Regulations

The California Register of Historical Resources

In California, the term "historical resource" includes but is not limited to "any object, building, structure, site, area, place, record, or manuscript which is historically or archaeologically significant, or is significant in the architectural, engineering, scientific, economic, agricultural, educational, social, political, military, or cultural annals of California." (California Public Resources Code [PRC] Section 5020.1[j]). In 1992, the California legislature established the California Register of Historical Resources (CRHR) "to be used by state and local agencies, private groups, and citizens to identify the state's historical resources and to indicate what properties are to be protected, to the extent prudent and feasible, from substantial adverse change" (PRC section 5024.1[a]). The criteria for listing resources on the CRHR were expressly developed to be in accordance with previously established criteria developed for listing in the National Register of Historic Places (NRHP), enumerated below. According to PRC Section 5024.1(c)(1–4), a resource is considered historically significant if it (i) retains “substantial integrity,” and (ii) meets at least one of the following criteria:

1. Is associated with events that have made a significant contribution to the broad patterns of California's history and cultural heritage.
2. Is associated with the lives of persons important in our past.
3. Embodies the distinctive characteristics of a type, period, region, or method of construction, or represents the work of an important creative individual, or possesses high artistic values.
4. Has yielded, or may be likely to yield, information important in prehistory or history.

In order to understand the historic importance of a resource, sufficient time must have passed to obtain a scholarly perspective on the events or individuals associated with the resource. A resource less than fiftyyears old may be considered for listing in the CRHR if it can be demonstrated that sufficient time has passed to understand its historical importance (see 14 CCR Section 4852[d][2]).

The CRHR protects cultural resources by requiring evaluations of the significance of prehistoric and historic resources. The criteria for the CRHR are nearly identical to those for the NRHP and properties listed or formally designated as eligible for listing in the NRHP are automatically listed in the CRHR, asare the state landmarks and points of interest. The CRHR also includes properties designated under localordinances or identified through local historical resource surveys.

California Environmental Quality Act

The following CEQA statutes (PRC Section 21000 et seq.) and CEQA Guidelines (14 CCR 15000 et seq.) are of relevance to the analysis of archaeological, historic, and Tribal Cultural Resources (TCRs):

- PRC Section 21083.2(g) defines "unique archaeological resource."
- PRC Section 21084.1 and CEQA Guidelines Section 15064.5(a) defines "historical resources." In addition, CEQA Guidelines Section 15064.5(b) defines the phrase "substantial adverse change in the significance of an historical resource"; it also defines the circumstances when a project would materially impair the significance of a historical resource.
- PRC Section 21074(a) defines "Tribal Cultural Resources."
- PRC Section 5097.98 and CEQA Guidelines Section 15064.5(e) set forth standards and steps to be employed following the accidental discovery of human remains in any location other than a dedicated cemetery.
- PRC Sections 21083.2(b) and 21083.2(c) and CEQA Guidelines Section 15126.4 provide information regarding the mitigation framework for archaeological and historic resources, including examples of preservation-in-place mitigation measures. Preservation in place is the preferred manner of mitigating impacts to significant archaeological sites because it maintains the relationship between artifacts and the archaeological context and may help avoid conflict with religious or cultural values of groups associated with the archaeological site(s).

More specifically, under CEQA, a project may have a significant effect on the environment if it may cause "a substantial adverse change in the significance of an historical resource" (PRC Section 21084.1; 14-CCR 15064.5[b]).

A "substantial adverse change in the significance of an historical resource," reflecting a significant effect under CEQA, means "physical demolition, destruction, relocation, or alteration of the resource or its immediate surroundings such that the significance of an historical resource would be materially impaired" (14- CCR 15064.5[b][1]; PRC Section 5020.1[q]). In turn, the significance of a historical resource is materially impaired when a project does any of the following (14 CCR 15064.5[b][2]):

1. Demolishes or materially alters in an adverse manner those physical characteristics of an historical resource that convey its historical significance and that justify its inclusion in, or eligibility for, inclusion in the California Register [CRHR]; or
2. Demolishes or materially alters in an adverse manner those physical characteristics that account for its inclusion in a local register of historical resources pursuant to Section 5020.1(k) of the PRC or its identification in an historical resources survey meeting the requirements of Section 5024.1(g) of the PRC, unless the public agency reviewing the effects of the project establishes by a preponderance of evidence that the resource is not historically or culturally significant; or
3. Demolishes or materially alters in an adverse manner those physical characteristics of a historical resource that convey its historical significance and that justify its eligibility for inclusion in the California Register as determined by a lead agency for purposes of CEQA.

Pursuant to these sections, the CEQA inquiry begins with evaluating whether a project area contains any historical resources, then evaluates whether that project will cause a substantial adverse change in the significance of a historical resource such that the resource's historical significance would be materially impaired.

If it can be demonstrated that a project will cause damage to a unique archaeological resource, the lead agency may require reasonable efforts be made to permit any or all of these resources to be preserved in place or left in

an undisturbed state. To the extent that they cannot be left undisturbed, mitigation measures are required (PRC Sections 21083.2[a]–[c]).

PRC Section 21083.2(g) defines a *unique archaeological resource* as an archaeological artifact, object, or site about which it can be clearly demonstrated that without merely adding to the current body of knowledge, there is a high probability that it meets any of the following criteria (PRC Section 21083.2[g]):

4. Contains information needed to answer important scientific research questions and that there is a demonstrable public interest in that information.
5. Has a special and particular quality such as being the oldest of its type or the best available example of its type.
6. Is directly associated with a scientifically recognized important prehistoric or historic event or person.

Impacts on non-unique archaeological resources are generally not considered a significant environmental impact (PRC Section 21083.2[a]; 14 CCR 15064.5[c][4]). However, if a non-unique archaeological resource qualifies as a TCR (PRC Sections 21074[c] and 21083.2[h]), further consideration of significant impacts is required.

CEQA Guidelines Section 15064.5 assigns special importance to human remains and specifies procedures to be used when Native American remains are discovered. These procedures are detailed in PRC Section 5097.98.

California State Assembly Bill 52

Assembly Bill (AB) 52 of 2014 amended PRC Section 5097.94 and added PRC Sections 21073, 21074, 21080.3.1, 21080.3.2, 21082.3, 21083.09, 21084.2, and 21084.3. AB 52 established that tribal cultural resources must be considered under CEQA and also provided for additional Native American consultation requirements for the lead agency. Section 21074 describes a tribal cultural resource as a site, feature, place, cultural landscape, sacred place, or object that is considered of cultural value to a California Native American tribe and that is either:

- On or determined to be eligible for the California Register of Historical Resources or a local historic register; or
- A resource determined by the lead agency, in its discretion and supported by substantial evidence, to be significant pursuant to criteria set forth in subdivision (c) of Section 5024.1.

AB 52 formalizes the lead agency–tribal consultation process, requiring the lead agency to initiate consultation with California Native American groups that are traditionally and culturally affiliated with the Project area, including tribes that may not be federally recognized. Lead agencies are required to begin consultation prior to the release of a negative declaration, mitigated negative declaration, or environmental impact report.

Section 1(a)(9) of AB 52 establishes that "a substantial adverse change to a tribal cultural resource has a significant effect on the environment." Effects on tribal cultural resources should be considered under CEQA. Section 6 of AB 52 adds Section 21080.3.2 to the PRC, which states that parties may propose mitigation measures "capable of avoiding or substantially lessening potential significant impacts to a tribal cultural resource or alternatives that would avoid significant impacts to a tribal cultural resource." Further, if a California Native American tribe requests consultation regarding project alternatives, mitigation measures, or significant effects to tribal cultural resources, the consultation shall include those topics (PRC Section 21080.3.2[a]). The environmental document and the mitigation monitoring and reporting program (where applicable) shall include any mitigation measures that are adopted (PRC Section 21082.3[a]).

Native American Historic Cultural Sites (California Public Resources Code section 5097 et seq.)

State law addresses the disposition of Native American burials in archaeological sites and protects such remains from disturbance, vandalism, or inadvertent destruction; establishes procedures to be implemented if Native American skeletal remains are discovered during construction of a project; and establishes the NAHC to resolve disputes regarding the disposition of such remains. In addition, the Native American Historic Resource Protection Act makes it a misdemeanor punishable by up to 1 year in jail to deface or destroy an Indian historic or cultural site that is listed or may be eligible for listing in the CRHR.

California Native American Graves Protection and Repatriation Act

The California Native American Graves Protection and Repatriation Act (California Repatriation Act), enacted in 2001, required all state agencies and museums that receive state funding and that have possession or control over collections of human remains or cultural items, as defined, to complete an inventory and summary of these remains and items on or before January 1, 2003, with certain exceptions. The California Repatriation Act also provides a process for the identification and repatriation of these items to the appropriate tribes.

California Health and Safety Code section 7050.5 and Public Resources Code Section 5097.98

CEQA Guidelines Section 15064.5 assigns special importance to human remains and specifies procedures to be used when Native American remains are discovered. As described below, these procedures are detailed in California Health and Safety Code Section 7050.5 and Public Resources Code Section 5097.98.

California law protects Native American burials, skeletal remains, and associated grave goods, regardless of their antiquity, and provides for the sensitive treatment and disposition of those remains. Health and Safety Code Section 7050.5 requires that if human remains are discovered in any place other than a dedicated cemetery, no further disturbance or excavation of the site or nearby area reasonably suspected to contain human remains shall occur until the County coroner has examined the remains (California Health and Safety Code Section 7050.5[b]). If the coroner determines or has reason to believe the remains are those of a Native American, the coroner must contact the NAHC within 24 hours (California Health and Safety Code Section 7050.5[c]). In accordance with California Public Resources Code Section 5097.98(a), the NAHC will notify the Most Likely Descendant (MLD). With the permission of the landowner, the MLD may inspect the site of discovery. Within 48 hours of being granted access to the site, the MLD may recommend means of treatment or disposition, with appropriate dignity, of the human remains and associated grave goods.

Guidelines for Determining Significance

According to CEQA (§15064.5b), a project with an effect that may cause a substantial adverse change in the significance of an historical resource is a project that may have a significant effect on the environment. CEQA defines a substantial adverse change:

> Substantial adverse change in the significance of an historical resource means physical demolition, destruction, relocation, or alteration of the resource or its immediate surroundings such that the significance of an historical resource would be materially impaired.

The significance of an historical resource is materially impaired when a project:

- Demolishes or materially alters in an adverse manner those physical characteristics of an historical resource that convey its historical significance and that justify its inclusion in, or eligibility for inclusion in, the CRHR; or
- Demolishes or materially alters in an adverse manner those physical characteristics that account for its inclusion in a local register of historical resources pursuant to section 5020.1(k) of the Public Resources Code or its identification in an historical resources survey meeting the requirements of section 5024.1(g) of the Public Resources Code, unless the public agency reviewing the effects of the project establishes by a preponderance of evidence that the resource is not historically or culturally significant; or
- Demolishes or materially alters in an adverse manner those physical characteristics of an historical resource that convey its historical significance and that justify its eligibility for inclusion in the CRHR as determined by a lead agency for purposes of CEQA.

Section 15064.5(c) of CEQA applies to effects on archaeological sites and contains the following additional provisions regarding archaeological sites:

- When a project will impact an archaeological site, a lead agency shall first determine whether the site is an historical resource, as defined in subsection (a).
- If a lead agency determines that the archaeological site is a historical resource, it shall refer to the provisions of Section 21084.1 of the Public Resources Code, and this section, Section 15126.4 of the Guidelines, and the limits contained in Section 21083.2 of the Public Resources Code do not apply.
- If an archaeological site does not meet the criteria defined in subsection (a) but does meet the definition of a unique archaeological resource in Section 21083.2 of the Public Resources Code, the site shall be treated in accordance with the provisions of section 21083.2. The time and cost limitations described in Public Resources Code Section 21083.2 (c–f) do not apply to surveys and site evaluation activities intended to determine whether the project location contains unique archaeological resources.
- If an archaeological resource is neither a unique archaeological nor a historical resource, the effects of the project on those resources shall not be considered a significant effect on the environment. It shall be sufficient that both the resource and the effect on it are noted in the Initial Study or Environmental Impact Report (EIR), if one is prepared to address impacts on other resources, but they need not be considered further in the CEQA process.

Section 15064.5(d) and (e) contain additional provisions regarding human remains. Regarding Native American human remains, paragraph (d) provides:

> When an initial study identifies the existence of, or the probable likelihood of, Native American human remains within the project, a lead agency shall work with the appropriate Native Americans as identified by the Native American Heritage Commission as provided in Public Resources Code SS5097.98. The applicant may develop an agreement for treating or disposing of, with

> appropriate dignity, the human remains and any items associated with Native American burials with the appropriate Native Americans as identified by the Native American Heritage Commission. Action implementing such an agreement is exempt from:
>
> 7. The general prohibition on disinterring, disturbing, or removing human remains from any location other than a dedicated cemetery (Health and Safety Code Section 7050.5); and
> 8. The requirement of CEQA and the Coastal Act.

Under CEQA, an EIR is required to evaluate any impacts on unique archaeological resources (California Public Resources Code section 21083.2.) A "unique archaeological resource" is defined as:

> [A]n archaeological artifact, object, or site about which it can be clearly demonstrated that, without merely adding to the current body of knowledge, there is a high probability that it meets any of the following criteria:
>
> 1. Contains information needed to answer important scientific research questions and that there is a demonstrable public interest in that information.
> 2. Has a special and particular quality such as being the oldest of its type or the best available example of its type.
> 3. Is directly associated with a scientifically recognized important prehistoric or historic event or person.

(California Public Resources Code section 21083.2(g)). An impact to a non-unique archaeological resource is not considered a significant environmental impact and such non-unique resources need not be further addressed in the EIR (Public Resources Code section 21083.2(a); CEQA Guidelines section 15064.5(c)(4)).

As stated above, CEQA contains rules for mitigation of "unique archaeological resources." For example, "[i]f it can be demonstrated that a project will cause damage to a unique archaeological resource, the lead agency may require reasonable efforts to be made to permit any or all of these resources to be preserved in place or left in an undisturbed state. Examples of that treatment, in no order of preference, may include, but are not limited to, any of the following:

> 4. Planning construction to avoid archaeological sites.
> 5. Deeding archaeological sites into permanent conservation easements.
> 6. Capping or covering archaeological sites with a layer of soil before building on the sites.
> 7. Planning parks, greenspace, or other open space to incorporate archaeological sites." (Pub. Resources Code section 21083.2(b)(1)-(4).)

Public Resources Code section 21083.2(d) states that "[e]xcavation as mitigation shall be restricted to those parts of the unique archaeological resource that would be damaged or destroyed by the project. Excavation as mitigation shall not be required for a unique archaeological resource if the lead agency determines that testing or studies already completed have adequately recovered the scientifically consequential information from and about the resource, if this determination is documented in the environmental impact report."

The rules for mitigating impacts to archaeological resources to qualify as "historic resources" are slightly different. According to CEQA Guidelines section 15126.4(b), "[p]ublic agencies should, whenever feasible, seek to avoid damaging effects on any historic resource of an archaeological nature. The following factors shall be considered and discussed in an EIR for a project involving such an archaeological site:

A. Preservation in place is the preferred manner of mitigating impacts to archaeological sites. Preservation in place maintains the relationship between artifacts and the archaeological context. Preservation may also avoid conflict with religious or cultural values of groups associated with the site.
B. Preservation in place may be accomplished by, but is not limited to, the following:
    1. Planning construction to avoid archaeological sites;
    2. Incorporation of sites within parks, greenspace, or other open space;
    3. Covering the archaeological sites with a layer of chemically stable soil before building tennis courts, parking lots, or similar facilities on the site[; and]
    4. Deeding the site into a permanent conservation easement.

Thus, although section 21083.2 of the Public Resources Code, in addressing "unique archaeological sites," provides for specific mitigation options "in no order of preference," CEQA Guidelines section 15126.4(b), in addressing "historical resources of an archaeological nature," provides that "[p]reservation in place is the preferred manner of mitigating impacts to archaeological sites."

Under CEQA, "[w]hen data recovery through excavation is the only feasible mitigation," the lead agency may cause to be prepared and adopt a "data recovery plan," prior to any excavation being undertaken. The data recovery plan must make "provision for adequately recovering the scientifically consequential information from and about the historic resource." (CEQA Guidelines section 15126.4(b)(3)(C).) The data recovery plan also "must be deposited with the California Historical Resources Regional Information Center." (*Ibid*.) Further, "[i]f an artifact must be removed during project excavation or testing, curation may be an appropriate mitigation." (*Ibid*.)

However, "[d]ata recovery shall not be required for an historical resource if the lead agency determines that testing or studies already completed have adequately recovered the scientifically consequential information from and about the archaeological or historic resource, provided that determination is documented in the EIR and that the studies are deposited with the California Historical Resources Regional Information Center." (CEQA Guidelines Section 15126.4(b)(3)(D).)

Local Regulations

Los Angeles County 2035 General Plan 2035

Chapter 9, the Conservation and Natural Resources Element of the Los Angeles County General Plan 2035, Section VIII. Historic, Cultural, and Paleontological Resources provides the following goals and policies potentially relevant to the Project (County of Los Angeles 2015b):

Goal C/NR 14 Protected historic, cultural, and paleontological resources.
Topic: Historic, Cultural, and Paleontological Resource Protection

Policy C/NR 14.1 Mitigate all impacts from new development on or adjacent to historic, cultural, and paleontological resources to the greatest extent feasible.

Policy C/NR 14.2 Support an inter-jurisdictional collaborative system that protects and enhances historic, cultural, and paleontological resources.

Policy C/NR 14.3 Support the preservation and rehabilitation of historic buildings.

Policy C/NR 14.4 Ensure proper notification procedures to Native American tribes in accordance with Senate Bill 18 (2004).

Policy C/NR 14.5 Promote public awareness of historic, cultural, and paleontological resources.

Policy C/NR 14.6 Ensure proper notification and recovery processes are carried out for development on or near historic, cultural, and paleontological resources.

Section 22.124.070, Criteria for Designation of Landmarks and Historic Districts

Los Angeles County's Historic Preservation Ordinance was adopted on September 1, 2015, and establishes criteria and procedures for the nomination, designation and review of work on landmarks and property located within historic districts. Unless exempted, the Historic Preservation Ordinance applies to privately owned property within unincorporated areas of Los Angeles County and all publicly owned landmarks.

The criteria for designating landmarks and historic districts is below (County of Los Angeles 2015a: 22.124.070).

A. A structure, site, object, tree, landscape, or natural land feature may be designated as a landmark if it is 50 years of age or older and satisfies one or more of the following criteria:
   1. It is associated with events that have made a significant contribution to the broad patterns of the history of the nation, State, County, or community in which it is located;
   2. It is associated with the lives of persons who are significant in the history of the nation, State, County, or community in which it is located;
   3. It embodies the distinctive characteristics of a type, architectural style, period, or method of construction, or represents the work of an architect, designer, engineer, or builder whose work is of significance to the nation, State, County, or community in which it is located; or possesses artistic values of significance to the nation, State, County, or community in which it is located;
   4. It has yielded, or may be likely to yield, significant and important information regarding the prehistory or history of the nation, State, County, or community in which it is located;
   5. It is listed, or has been formally determined eligible by the United States National Park Service for listing, in the National Register of Historic Places, or is listed, or has been formally determined eligible by the State Historical Resources Commission for listing, on the California Register of Historical Resources;
   6. If it is a tree, it is one of the largest or oldest trees of the species located in the County; or
   7. If it is a tree, landscape, or other natural land feature, it has historical significance due to an association with a historic event, person, site, street, or structure, or because it is a defining or significant outstanding feature of a neighborhood.

B. Property less than 50 years of age may be designated as a landmark if it meets one or more of the criteria set forth in Subsection A, above, and exhibits exceptional importance.

C. The interior space of a property, or other space held open to the general public, including but not limited to a lobby, may be designated as a landmark or included in the landmark designation of a property if the space qualifies for designation as a landmark under Subsection A or B, above.

D. Historic Districts. A geographic area, including a noncontiguous grouping of related properties, may be designated as a historic district if all of the following requirements are met:

1. More than 50 percent of owners in the proposed district consent to the designation;
2. The proposed district satisfies one or more of the criteria set forth in Subsections A.1 through A.5, above; and
3. The proposed district exhibits either a concentration of historic, scenic, or sites containing common character-defining features, which contribute to each other and are unified aesthetically by plan, physical development, or architectural quality; or significant geographical patterns, associated with different eras of settlement and growth, particular transportation modes, or distinctive examples of parks or community planning.

Cultural Context

Prehistoric Context

The prehistoric cultural context of the vicinity has been fully described in a recent technical report, the *Archaeological Resources Inventory and Eligibility Report - Brightline West Cajon Pass High-Speed Rail Project* (Hale et al. 2023), for a project in close proximity to the current Project area. As such, the cultural context has be reproduced below.

Terminal Pleistocene – Fluted Point Period

Disregarding claims for extremely ancient human presence in the Mojave Desert (Budinger 1983; Clements and Clements 1953; Harrington and Simpson 1961; Leakey et al. 1972; Schuiling 1979; Simpson 1958, 1980), there is substantial evidence that human occupation of the arid west began at the end of the Pleistocene era. Archaeological assemblages of such antiquity have been recognized mainly due to the presence of fluted-base projectile points similar to the well-known Clovis forms of the Great Plains and are fairly well-dated to 12,000-10,000 BP Termed “Western Clovis” (Tuohy 1974; Willig and Aikens 1988), “Black Rock Concave Base” (Clewlow 1968), or “Great Basin Concave-Base” (Pendleton 1979), many of the earliest discoveries were made in the Mojave Desert at places like Lake Mojave (Rogers 1939), China Lake (Davis 1975; Davis and Panlaqui 1978), Tiefort Basin (Brott 1966; Davis and Shutler 1969), and Little Lake (cf. Warren and Phagan 1988), but others came from Lake Tonopah and Mud Lakes in western Nevada (Campbell and Campbell 1935; Kelly 1978; Pendleton 1979; Tuohy 1968, 1969). Many of those recovered were surface finds, but sites at China Lake held fluted points in apparent association with the burned remains of extinct fauna (Davis and Panlaqui 1978); these locations remain among the more convincing for the Pleistocene antiquity of fluted point occupations (Basgall et al. 2002; Warren et al. 2004). Fluted points in the West often occur as isolated finds (cf. Basgall and Hall 1991) but they also tend to be found with flaked stone assemblages that are dominated by bifaces and formally shaped, unifacial flake tools. The comparable prevalence of bifaces in central plains Paleoindian (Clovis) assemblages could signify a need for a

generalist, portable technology among extremely mobile groups (Dincauze and Curran 1983; Kelly and Todd 1988; Meltzer 1993; Simms 1988). The premise of high residential mobility among Paleoindian groups has drawn support from studies of lithic assemblages transported long-distances (Basgall 1989; Goodyear 1979; Nelson 1991; Shott 1986, 1989; Torrence 1989) and from obsidian source profiles for Great Basin Concave-base points and crescents in the Mojave Desert (Basgall 1988, 2004; Fagan 1988; Giambastiani 2008).

Recent discoveries of fluted points have increased the spatial distribution of these artifacts but have not contributed much to solidifying their place in time. Finds from the Mojave Desert have slowly multiplied (Basgall and Hall 1991; Skinner 1984), as have those in the northern (Fagan 1984, 1986; Willig 1984, 1988) and western Great Basin (Basgall 1988; Giambastiani 2004; Hutchinson 1988; Yohe 1992; Zancanella 1988). Examples from radiocarbon-dated deposits are still elusive, but fluted points from a few surface localities have been roughly dated by relative methods. For example, investigations at CA-MNO-679 (Basgall 1988) disclosed several "Komodo-type" fluted points. No radiocarbon assays were obtained from the site, but the obsidian hydration analysis of Komodo points places the site assemblage conservatively at 9000 to 7000 BP (Basgall 1988). At the Dietz site in south-central Oregon, a horizontally stratified separation of fluted and stemmed complexes implies a great antiquity for fluted points (Willig 1984, 1988, 1990). At the same location, Fagan (1988) argues for technological distinctions between fluted and stemmed point assemblages. Basgall and Hall (1991) have also shown differences in the spatial distributions of fluted and stemmed points at Fort Irwin and have argued for a cultural division between them throughout the Mojave Desert (Basgall and Hall 1994).

At China Lake, Basgall (2004, 2005) has revisited many of E. L. Davis' archetypal fluted point sites, including "Basalt Ridge" (CA-INY-5825) and the infamous "Lakebed Locality" (Davis 1978). At Basalt Ridge, obsidian hydration data reflect the use of obsidian artifacts between 12,000 and 8000 BP, consistent with the recovery of Great Basin Concave-base and Great Basin Stemmed series projectile points from the site. Radiocarbon dates of 10,100±100 and 9870±50 ^{14}C years BP reflect an episode of spring flow and organic deposition at about 10,000 BP that may correlate with a surrounding surface assemblage of archaeological material (Basgall 2004). Additional work at the Lakebed Locality has provided distributional evidence for the temporal separation of Great Basin Concave-base and Great Basin Stemmed projectile points; the former assigned to a 12,000 to 10,000 BP time frame and reflects a stronger association between crescents and Stemmed points rather than Concave-base points (Basgall 2007). Warren et al. (2004) also argued that fluted points in the China Lake basin date between 11,200 and 10,900 years ago, based on their archaeological locations with respect to past elevations of China Lake.

Recent work at Edwards AFB has identified a few sites with Great Basin Concave-base points around the shore of Rosamond Lake, also known as Pleistocene Lake Thompson (Basgall and Overly 2004). Site CA-KER-4985 constitutes a series of cultural deposits (spanning more than 4 km in length) distributed along a prominent beach ridge or gravel bar on the east shore of the lake. It manifests numerous occupation loci with surface assemblages containing Great Basin Concave-base points, Great Basin Stemmed points, and various crescentics. Another site, CA-KER-3273/H, appears to contain a buried cultural deposit of late Pleistocene-early Holocene age. Distributions of point types and crescents at CA-KER-4985 show no obvious spatial patterning and cannot be sorted out, but obsidian hydration data from basal cultural deposits at CA-KER-3273/H imply human presence at Lake Thompson sometime around 10,500 to 10,000 BP (Basgall and Overly 2004).

Early Holocene – Lake Mojave Period

In the western Great Basin, various stemmed projectile point forms have been fairly well dated to the early Holocene, roughly between 10,000 and 7500 BP. Generally subsumed under the broader appellation "Great Basin Stemmed," these artifacts are elongate, lanceolate forms often with subtle, sloping shoulders, although many different regional styles exist. In the western Mojave Desert, typical stemmed points are Lake Mojave (unshouldered) and Silver Lake (slightly shouldered) forms, both of which are parts of lithic assemblages similar to those of the Fluted Point Period.

Because of their tendency to occur along the shorelines of extinct lakes, stemmed point assemblages were once considered to represent a unique, lacustrine-based subsistence adaptation. The term "Western Pluvial Lakes Tradition" (WPLT), originally coined by Bedwell (1973), was applied to stemmed point sites found in ancient lakeshore contexts across the Great Basin. Lithic assemblages of the WPLT were found to be fairly comparable to Clovis materials, and in many cases points of both kinds occur together in the same sites (Basgall and Hall 1991; Davis and Panlaqui 1978; Willig 1988, 1990). Flaked stone "crescents" (Amsden 1937; Tadlock 1966; Wardle 1913) were found primarily in such lakeshore assemblages, leading many archaeologists to draw associations between crescents and lacustrine environments. Support for the WPLT has faded in recent years, however, as additional stemmed point sites have been discovered in locations away from extinct bodies of water and the landform bias in early survey programs becomes increasingly clear. Bias in the differential preservation of ancient land surfaces along fossil washes and in the center of dry lake basins has also been recognized (Basgall and Hall 1991; Waters 1988, 1991).

Middle Holocene – Pinto Period

Archaeological assemblages dating to this period are typified by Pinto points, projectiles bearing weak shoulders and indented or split-stem bases. Associated flaked stone assemblages include leaf-shaped bifaces, formal unifaces, flake tools, and consistent quantities of core-cobble implements (Basgall 1993, 2000a; Campbell and Campbell 1935; Hunt 1960; Rogers 1939). Lithic selection evidently favored fine-grained igneous stones such as basalt and rhyolite for points and bifaces, the latter being particularly important at Edwards AFB. Milling stones are a major part of Pinto Period assemblages, reflecting the importance of seed processing. The timing of the Pinto Period coincides with Antevs' (1953) "Altithermal," an extended interval when climate was supposedly very hot and dry. Archaeologists once believed a scarcity of Pinto sites in the Mojave Desert signaled a near-total abandonment of the region due to the oppressive climate, but recent studies suggest that the middle Holocene in the Antelope Valley was punctuated by wetter episodes (Grayson 1993; Mehringer 1987) and that the effects of the Altithermal were variable in different parts of the desert.

Early Late Holocene – Gypsum Period

Diagnostic artifacts at Gypsum Period sites include Gypsum contracting-stem projectile points, Elko Eared and Corner-notched points, and Humboldt Basal-notched points. Lithic assemblages are typified by bifaces, scrapers, and a variety of other flake-based tools, but also contain mortars and pestles as evidence of expanded plant processing (including mesquite, pine nuts, yucca, and agave). Large villages or village complexes appear during Gypsum times that may reflect a transition from seasonal transhumance to year-round sedentary occupation within the Antelope Valley (Sutton 1988a, 1996). The presence of marine shell artifacts at Gypsum period sites within Edwards AFB indicates economic ties between the Antelope Valley and the California coast (Warren 1984). Gardner

(2006) analyzed data from a slew of sites in the western Mojave to assess the socioeconomic impact of the MCA and in so doing, suggested a revision in the terminus of the Gypsum period to about 2000 BP. Gardner (2006) based this revision on the early appearance of the bow and arrow within the Rose Spring Complex in conjunction with an increase in effective moisture at 2000 BP.

Middle Late Holocene – Saratoga Springs Period

By at least 1500 BP (or 2000 BP using Gardner's 2006 chronological scheme), the aboriginal people of the Mojave Desert had replaced the atlatl (or spear-thrower) with the bow and arrow (Yohe 1992). This change brought about a shift toward the use of smaller projectile points, including various corner-notched and side-notched Saratoga Springs types and the corner-notched Rose Spring and Eastgate types. Ancestral Puebloan (also called "Anasazi") ceramics also appear in the southern Mojave around 1200 to 1100 BP, coinciding with the westward spread of the Virgin Anasazi into southern Nevada. Influence from the cultures of the Colorado River eventually grew stronger than those from the east, allowing for an influx of buffware ceramics and other goods that persisted until the historic present. The intensification of plant use initiated during the Gypsum period continued in the Saratoga Springs period, as diet breadth was expanded to include a wide range of plant foods that required high cost/high return procurement and processing strategies. This is indicated by a general increase in milling equipment from Gypsum times through the Saratoga Springs period (see Gardner 2006).

Recent Late Holocene – Post-Saratoga Springs/Late Period

Social and economic adaptations during this final prehistoric interval were largely an extension of patterns that developed during the Saratoga Springs period. Trade along the Mojave River continued to provide the people of Central and Eastern Mojave Desert with a variety of exotic goods and materials, although it appears that relationships with groups in coastal California eventually grew stronger than those with groups inhabiting the arid interior. Projectile points also shifted in form, with unnotched Cottonwood Triangular and Desert Side-notched points being even smaller than their predecessors. Mortars and pestles also appear in significant quantities, probably an indication of increased emphasis on high-cost/high-yield processing.

Ethnohistoric Context

The Project location covers territory associated with multiple Native American ethnic groups. Ethnic territorial claims by the different groups who occupied the Mojave Desert and Soledad Pass could be fluid in response to environmental pressure and sometimes resulted in conflict that would end in the movement of a group of people out of an area which would then be occupied by a competing group. Ethnographic sources, compiled for the most part by non-Native American anthropologists, suggest varying and sometimes overlapping territorial boundaries. Evidence suggests boundaries would shift over time and groups would sometimes share territory or resources and would invite neighbors to share resources when abundant. The Project lies primarily within the traditional cultural territory of the Serrano, though borders the traditional cultural territory of the Tataviam to the southwest.

Serrano

During ethnohistoric times (i.e., following the establishment of Spanish Missions, after approximately A.D. 1769), the broader desert region containing Lucerne Valley, Johnson Valley, and extending east to Twentynine Palms (near to Twentynine Palms Marine Corps Air-Ground Combat Training Center) was evidently inhabited by groups of Serrano

people. Bean and Smith (1978) show a division between the Vanyume to the north (Barstow-Mojave River area) and the Serrano to the south that appears to parallel the alignment of the Ord and Rodman, Lava Bed, and Bullion mountains, from west to east. Benedict (1924) and Strong (1929) both placed a Serrano group (Atü'aviatum or Aturavīatum) at "The Pipes," which is located in the eastern San Bernardino Mountains about 12 miles south of Melville Lake in Johnson Valley. Strong (1929:Table 1), however, also placed another group, the mōhīatniyum, at an unspecified location "northwest of The Pipes." The location is plotted by Strong (1929:Map 1) at the north end of the San Bernardino Mountains, roughly 10 miles northwest of where he plots The Pipes; it appears to lie in the vicinity of Old Woman Springs, at the south end of Johnson Valley. Kroeber's (1925:Plate 57) map also plots a Serrano village labeled Atan-pa-t at the approximate location of Old Woman Springs, or at least in the northern foothills of the San Bernardino Mountains but he did not discuss the village in his text.

Strong (1929:Map 1 and Table 1) also placed two Serrano clans at Twentynine Palms during the mid to late nineteenth century, the tamīanūtcem of the "wildcat" moiety and the mamaītum of the "coyote" moiety; Gifford (1918) refers to the wildcat clan as tamwionotz, while Benedict (1924) and Johnston (1965) call the coyote clan mamaintum and manraitum, respectively. During a war between the Mojave and Chemehuevi people between 1864 and 1867 (Kroeber and Kroeber 1973), a group of Chemehuevi apparently moved to the Oasis of Mara and remained there even after the battles were over (Baksh and Hilliard 2005; Johnston 1965; Miller and Miller 1967). Bean and Smith (1978) and Steward (1938) have suggested that Serrano peoples occupied the nearby oasis at Surprise Spring and that Serrano and Chemehuevi groups shared the use of surrounding desert tracts.

Although contact between the Serrano and Euroamericans may have occurred as early as 1771 (when Mission San Gabriel was established) or 1772 (the date of Pedro Fages' trip into Serrano territory), most historical sources mark the first encounter in 1776 when Francisco Garcés visited a community of about 40 people near present-day Victorville. Kroeber (1925) estimates the Serrano population before contact to be about 1,500 people, while Bean and Smith (1978) suggest a total of about 2,500. Spanish influence on the Serrano was limited until about 1819, when an asistencia was built near Redlands, but by 1834 most of the western Serrano had been moved to southern California missions like San Gabriel (Bean and Smith 1978; Cook 1943). Strong (1929:5) noted that the 1910 federal census identified only 119 Serrano, 89 of whom were "full-blooded".

First-hand accounts of the Serrano settlement-subsistence system comes from the observations of William McHaney, a Euroamerican prospector who spent time hunting and gathering in the 1880s with the Serrano in the desert north of Twentynine Palms (cited in Walker 1931). McHaney calls attention to the seasonal movements of Serrano for different kinds of plants and animals, but also water, and for raw materials to make tools; Strong (1929) states that the central home of the Serrano was in the San Bernardino Mountains. On the basis of both ethnographic and archaeological information, Sutton (2017) argues that both the Serrano who preferred the uplands and highlands of the San Bernardino Mountains (i.e. the "mountain" Serrano) and the Serrano who occupied the Mojave River (i.e. the Vanyume) shared a large desert region as a "common pool resource" area north of the mountains and east of the river called te'mtak; this region was described by Santos Manuel (see Harrington, cited by Bean et al., 1981 and NEA & CRS 2004). Comprehensive discussions of clan- or moiety-based territories derived from ethnographic studies include Sutton and Earle (2017), Earle (2005), and Earle (1990).

Prior to contact, the desert-dwelling Serrano maintained a hunting and gathering economy. Staple plant foods included acorns, pinyon nuts, yucca (flowers, stalks, and roots), mesquite, screwbeans, and cactus fruit, these often supplemented with various roots, bulbs, shoots, and seeds like chia (Salvia columbariae) and ricegrass (Oryzopsis spp.). Principal game included deer, mountain sheep, rabbits and larger rodents, and many birds (Bean and Smith

1978). Various basketry tools were used to gather, winnow, and cook plant foods (Bean and Vane 2002), many of which were stored in large, elevated basketry granaries at village locations. Pottery was also used for food storage, particularly to hold mesquite and pinyon flour (Benedict 1924). Hunting was accomplished with throwing sticks, various types of traps, nets and snares, sinew-backed bows and arrows (Bean and Smith 1978; Drucker 1937). Principal trading partners were the Mohave people to the east and the Gabrielino to the west, but they also traded often with their closer neighbors, the Chemehuevi and Cahuilla.

Families traditionally lived in single-family dwellings that were circular, domed or conical structures with central firepits. The walls were constructed of willow frames with exterior tule thatching secured with yucca withes (Bean and Smith 1978; Drucker 1937). Each house generally had a small "ramada" attached to it, an unwalled shade structure consisting of a willow-framed roof covered with thatching and supported by poles (Benedict 1924; Drucker 1937; Kroeber 1925). The homes of several families were generally clustered in small groups, each of which usually had shared facilities such as granaries, a sweathouse, and a larger ceremonial house where the lineage leader resided (Bean and Smith 1978; Strong 1929). Serrano houses of more recent times (e.g. 1920s) were rectangular, with sloped tule-thatched roofs supported by forked posts, a central cross-beam, and horizontal wall beams set about 4 ft from the ground (Benedict 1924; Drucker 1937).

Basic items of material culture included baskets, pottery, rabbit skin blankets, awls, arrow straighteners, bows and arrows, mortars and pestles, stone pipes, musical instruments, bags and pouches, mats, and cordage (Bean and Smith 1978). Baskets were fabricated from yucca fiber, willow, and other reeds and grasses found in the area, while pots were made by coiling, smoothed with a paddle and anvil, and left undecorated (Benedict 1924; Stickel et al. 1980). Arrows were made of hardwood and tipped with stone points (Drucker 1937), and food-grinding tools featured basketry hoppers with portable stone mortars (attached with adhesive), deep wooden mortars, and bedrock mortars (Benedict 1924; Drucker 1937). Fibers of yucca, agave, and other plants were used to make clothing and other textiles, mats, and cordage.

Tataviam

The Project area falls within the ethnographic boundary of the Tataviam (King and Blackburn 1978; Johnson and Earle 1990; Kroeber 1925). Tataviam territories included the upper reaches of the Santa Clara River drainage east of Piru Creek, but also encompassed the Sawmill Mountains to the north and the southwestern portion of the Antelope Valley (King and Blackburn 1978). Tataviam territory is bound by various branches of Chumash to the north and west (including the Ventureño to the west, and Castac and Emigdiano to the northwest), Kitanemuk to the northeast, Serrano to the east, and Gabrielino to the south(King and Blackburn 1978).

Ethnographic data (i.e., data acquired by means of observation and/or direct communication) on the Tataviam and their traditional lifeways are limited. Most of what is known today about the Tataviam comes in the form of ethnohistory (i.e., historical accounts developed through examination of historical records and oral histories) as presented by anthropologists Alfred L. Kroeber (1925, 1915) and John P. Harrington (1935). Their accounts are based largely on interviews conducted in the early 1900s with a Native American consultant named Juan José Fustero, a man who spoke Kitanemuk and claimed that his grandparents were born near the town of Newhall and spoke a language that is no longer extant (Bright 1975). Most of the subsequent works published on the Tatatviam (King and Blackburn 1978; Bright 1975; Hudson 1982), including discussions of their cultural and geographic affiliations, were based on the Kroeber and Harrington interviews with Fustero and several other Kitanemuk consultants. Other studies have analyzed Spanish mission baptismal, marriage, and burial registers in an attempt to

better understand the distribution of historic village settlements and kinship ties between settlements (NEA and King 2004; Johnson 1978, 1997).

Early ethnologies referred to the Tataviam as Ataplili'ish (Kroeber 1915), but Kroeber found this name to be too general since it had already been used to describe other indigenous groups (namely the Gabrielino). Kroeber (1925) changed the term to Alliklik which was noted to be a Ventureño Chumash name for the group (although it is believed to be a derogatory term for the sound of the language) but offered almost no information concerning their traditional lifeways. One account of the Tatavium, provides a narrative that they held the river up from a point between Sespe and Piru, most of Piru Creek, Castac Creek, and probably Pastoria Creek across the mountains in the San Joaquin Valley drainage and adjacent to the Yokuts (Kroeber 1925: 613-614).

The Tataviam language is grouped in the Takic branch of the Uto-Aztecan language family along with neighboring languages and dialects such as Kitanemuk, Serrano (including Vanyume), Tongva, and the Cupan group of Luiseño, Juaneño (Ajachemem), Cahuilla, and Cupeño (Golla 2011; Sutton 1980). William Bright has suggested that Tataviam was actually a separate language with Takic affinities, or perhaps a "remnant, influenced by Takic, of a language family otherwise unknown in southern California" (Bright 1975: 230). However, the current and most widely accepted view is that Tataviam is in fact a Takic language (King and Blackburn 1978; Johnson and Earle 1990; Golla 2011; Sutton et al. 2007).

King and Blackburn (1978: 536) noted several Tataviam settlements based on information provided by Harrington and other sources, including mission registers. Among these is the putative village of tsawayung (also referred to as Chaguayabit, Chaguayanga, takuyama'm), which some believe was located near Castaic Junction at the site of Rancho San Francisco. However, there is little consensus as to its exact location. Harrington's own notes reflect this uncertainty: "Jose Juan Olivas thinks it is over by San Francisquito [Rancho San Francisco] but does not know and never did know just where" (NEA and King 2004: 119). Based on diary entries from the Portolá Expedition (Perkins 1957), some have hypothesized that Estancia San Francisco de Xavier (often incorrectly referred to as an asistencia) was placed at the location of the village of tsawayang, but this is based on descriptive diary entries and has never been confirmed by archaeological or other historic evidence. In fact, no physical evidence of the village has ever been found. Other Tataviam villages mapped outside of the Project area include tikatsing located on upper Castaic Creek, and pi'ing located where Castaic Creek meets Elizabeth Lake Canyon. The village of Tochonaga, was recorded on an 1843 land grant map. This site appears to be located to the southeast of Newhall, but it's precise location has also never been confirmed: "Tochononga was located in the mountains northwest of San Fernando…over by Los Alamos somewhere here in the Tejon Ranch" (NEA and King 2004: 117). Other villages and seasonal camp sites identified by Harrington include akure'eng, which was located at the original Newhall town site; apatsitsing, located on upper Castaic Creek; and naqava'atang, located east of Townsend Peak. Piru Creek also contained several village and rancheria sites, located on the northern edge of Tataviam territory (Johnson and Earle 1990).

Pedro Fage's account of the 1769 Portola expedition indicates that the first Chumash settlement encountered upon leaving Tataviam territory was located west of the mouth of Piru Creek. The village of kamulus (Camulos), located east of Piru Canyon, bears a Chumash name (Johnson and Earle 1990), leading to speculation that this village consisted of a mixed Chumash-Tataviam population. There has been much discussion regarding Chumash ties to areas generally accepted as Tataviam territory (Beeler and Klar 1977).

More recent studies have examined additional Tataviam investigations conducted by Harrington with neighboring groups (Johnson and Earle 1990). These studies support the original Kroeber and Harrington findings that the Tataviam were a distinct group:

The correspondence between (1) ancestral villages traced using genealogical evidence and (2) independently elicited information regarding Tataviam territoriality builds confidence in the reliability of the ethnographic record compiled by Kroeber and Harrington. The distinctiveness of the Tataviam as an ethnic entity, separate from the Kitanemuk and Fernandeño, is supported by our research (Johnson and Earle 1990: 209).

In 1996, as the result of a Caltrans District 7 highway widening project for SR-126, archaeologists discovered and excavated 45 burials from CA-LAN-2233, a prehistoric village site dating from approximately 2000 to 1640 years before present (BP) and located within Tataviam territory. Examination of mitochondrial DNA (mtDNA) from five burials at CA-LAN-2233 found that these individuals were genetically linked to modern Uto-Aztecan speaking groups, such as the Tataviam (Miller, Lopez, and Walker 2003).

Historic Context

Post-Contact history for the State of California is generally divided into three periods: the Spanish Period (AD 1769–1821), Mexican Period (AD 1821–1848), and American Period (AD 1846–present). Although Spanish, Russian, and British explorers visited the area for brief periods between 1529 and 1769, the Spanish Period in California begins with the establishment in 1769 of a settlement at San Diego and the founding of Mission San Diego de Alcalá, the first of 21 missions constructed between 1769 and 1823. Independence from Spain in 1821 marks the beginning of the Mexican Period, and the signing of the Treaty of Guadalupe Hidalgo in 1848, ending the Mexican–American War, signals the beginning of the American Period when California became a territory of the United States.

Spanish Period (AD 1769–1821)

Spanish explorers made sailing expeditions along the coast of southern California between the mid-1500s and mid-1700s. In search of the legendary Northwest Passage, Juan Rodríquez Cabríllo stopped in 1542 at present-day San Diego Bay. With his crew, Cabríllo explored the shorelines of present Catalina Island as well as San Pedro and Santa Monica Bays. Much of the present California and Oregon coastline was mapped and recorded in the next half-century by Spanish naval officer Sebastián Vizcaíno. Vizcaíno's crew also landed on Santa Catalina Island and at San Pedro and Santa Monica Bays, giving each location its long-standing name. The Spanish crown laid claim to California based on the surveys conducted by Cabríllo and Vizcaíno (Bancroft 1885; Gumprecht 1999).

More than 200 years passed before Spain began the colonization and inland exploration of Alta California. The 1769 overland expedition by Captain Gaspar de Portolá marks the beginning of California's Historic period, occurring just after the King of Spain installed the Franciscan Order to direct religious and colonization matters in assigned territories of the Americas. With a band of 64 soldiers, missionaries, Baja (lower) California Native Americans, and Mexican civilians, Portolá established the Presidio of San Diego, a fortified military outpost, as the first Spanish settlement in Alta California. In July of 1769, while Portolá was exploring southern California, Franciscan Fr. Junípero Serra founded Mission San Diego de Alcalá at Presidio Hill, the first of the 21 missions that would be established in Alta California by the Spanish and the Franciscan Order between 1769 and 1823.

The Portolá expedition first reached the present-day boundaries of Los Angeles in August 1769, thereby becoming the first Europeans to visit the area. Father Crespi named "the campsite by the river Nuestra Señora la Reina de los Angeles de la Porciúncula" or "Our Lady the Queen of the Angeles of the Porciúncula." Two years later, Friar Junípero Serra returned to the valley to establish a Catholic mission, the Mission San Gabriel Arcángel, on September 8, 1771 (Kyle 2002). Mission San Fernando Rey de España, the mission that served the proposed Project area, was established nearly 30 years later on September 8, 1797.

Mexican Period (AD 1821–1846)

A major emphasis during the Spanish Period in California was the construction of missions and associated presidios to integrate the Native American population into Christianity and communal enterprise. Incentives were also provided to bring settlers to pueblos or towns, but just three pueblos were established during the Spanish Period, only two of which were successful and remain as California cities (San José and Los Angeles). Several factors kept growth within Alta California to a minimum, including the threat of foreign invasion, political dissatisfaction, and unrest among the indigenous population. After more than a decade of intermittent rebellion and warfare, New Spain (Mexico and the California territory) won independence from Spain in 1821. In 1822, the Mexican legislative body in California ended isolationist policies designed to protect the Spanish monopoly on trade, and decreed California ports open to foreign merchants (Dallas 1955).

Extensive land grants were established in the interior during the Mexican Period, in part to increase the population inland from the more settled coastal areas where the Spanish had first concentrated their colonization efforts. Nine ranchos were granted between 1837 and 1846 in the future Orange County (Middlebrook 2005). Among the first ranchos deeded within the future Orange County were Manuel Nieto's Rancho Las Bolsas (partially in future Los Angeles County), granted by Spanish Governor Pedro Fages in 1784, and the Rancho Santiago de Santa Ana, granted by Governor José Joaquín Arrillaga to José Antonio Yorba and Juan Pablo Peralta in 1810 (Hallan-Gibson 1986). The secularization of the missions (enacted 1833) following Mexico's independence from Spain resulted in the subdivision of former mission lands and establishment of many additional ranchos.

During the supremacy of the ranchos (1834–1848), landowners largely focused on the cattle industry and devoted large tracts to grazing. Cattle hides became a primary southern California export, providing a commodity to trade for goods from the east and other areas in the United States and Mexico. The number of nonnative inhabitants increased during this period because of the influx of explorers, trappers, and ranchers associated with the land grants. The rising California population contributed to the introduction and rise of diseases foreign to the Native American population, who had no associated immunities.

American Period (AD 1846–Present)

War in 1846 between Mexico and the United States precipitated the Battle of Chino, a clash between resident Californios and Americans in the San Bernardino area. The Mexican-American War ended with the Treaty of Guadalupe Hidalgo in 1848, ushering California into its American Period.

California officially became a state with the Compromise of 1850, which also designated Utah and New Mexico (with present-day Arizona) as U.S. Territories (J.C. Waugh 2003). Horticulture and livestock, based primarily on cattle as the currency and staple of the rancho system, continued to dominate the southern California economy through 1850s. The Gold Rush began in 1848, and with the influx of people seeking gold, cattle were no longer desired

mainly for their hides but also as a source of meat and other goods. During the 1850s cattle boom, rancho vaqueros drove large herds from southern to northern California to feed that region's burgeoning mining and commercial boom. Cattle were at first driven along major trails or roads such as the Gila Trail or Southern Overland Trail, then were transported by trains when available. The cattle boom ended for southern California as neighboring states and territories drove herds to northern California at reduced prices. Operation of the huge ranchos became increasingly difficult, and droughts severely reduced their productivity (Cleland 2005).

Results

Records Search

Dudek archaeologist Makayla Murillo completed a records search of the Project area and a 0.5-mile radius on March 4, 2024, at the South Central Coastal Information Center (SCCIC), located on the campus of the California State University, Fullerton. An update to this original records search to incorporate changes to the Project footprint was completed by Dudek archaeologist Brenda Rogers at the SCCIC on April 17, 2025. The SCCIC records search included their collection of mapped prehistoric, historical and built-environment resources, Department of Parks and Recreation (DPR) site records, technical reports, archival resources, and ethnographic references. Additional consulted sources included the NRHP, California Inventory of Historical Resources/CRHR and listed Office of Historic Preservation Archaeological Determinations of Eligibility, California Points of Historical Interest, California Historical Landmarks, and California Department of Transportation Bridge Survey information.

Previously Conducted Cultural Resources Studies

The SCCIC records search identified eight previous cultural resources studies that have been performed within a 0.5-mile radius of the Project area. Of these studies, one intersects with the Gen-Tie Corridor/Collector Line (Table 1; Confidential Attachment A). This study is characterized as a cultural resources inventory and is summarized below Table 1.

Table 1. Previous Cultural Resources Studies within 0.5 Miles of Project Area

Report ID	Year	Author	Title
Intersects with Project area			
LA-08427	2007	Cooley, Theodore G.	Archaeological Survey Report for Southern California Edison Company 66kv Antelope Bus Split Project Los Angeles County, California.
Outside Project area			
LA-02546	1992	Norwood, Richard H	Phase I Cultural Resource Investigation for Tentative Parcel Map No. 23211 Lancaster, Los Angeles County California.
LA-06803	2001	Duke, Curt	Archaeological Letter Report: Roosevelt, Forage, Sun Village, and Assembly 12kV Distribution Circuits Deteriorated Pole Replacement Project, Los Angeles County, CA
LA-09995	2009	Schmidt, James	Archaeological Survey for the Southern California Edison Company: Nineteen deteriorated power poles on the Petan 12kv, Forage 12kv, Hangar 12kv, Lupine 12kv Assembly 12kv, Force 12kv, Moonglow 12kv, and Highes Lake 12kv circuits in Los Angeles County, CA

Table 1. Previous Cultural Resources Studies within 0.5 Miles of Project Area

Report ID	Year	Author	Title
LA-11453	2011	Orfila, Rebecca	LB TMO Colo SCE Piute/LA5677A, 44490 90th Street East Lancaster, Los Angeles County, California
LA-11496	2011	Perez, Don	Cultural Resources Records Search and Site Visit Results for AT&T Mobility, LLC Candidate LA0204, USID 24313 (E Avenue J & 90th Ste), 9021 East Avenue J, Lancaster, Los Angeles County, California
LA-11608	2011	Bonner, Wayne H. and Sarah A. Williams	Phase I Cultural Resources Assessment Desert Sun Ranch (CUP 11-06) Project
LA-12569	2011	Drover, Christopher and Patrick Maxon	Archaeological Letter Report: Roosevelt, Forage, Sun Village, and Assembly 12kV Distribution Circuits Deteriorated Pole Replacement Project, Los Angeles County, CA

LA-08427

A cultural resources inventory was conducted by Jones & Stokes for approximately 1,200 acres of private land along 50 miles of SCE easements in Los Angeles County, California (Cooley 2007). The study included a SCCIC records search, archival research, and a pedestrian survey of the project area of potential effects (APE). Overall, inventory efforts identified six previously recorded cultural resources within the APE, and an additional 21 newly recorded resources within the APE. Of these, P-19-003696, a historic-era refuse scatter, was recorded as intersecting the currently proposed Project area along the Gen-Tie Corridor/Collector Line. No significance evaluations were conducted for this resource, or any of the other cultural resources identified as intersecting the APE. Ultimately, the study recommended avoidance of P-19-003696, as well as the additional cultural resources identified during inventory efforts for the project (Cooley 2007). Approximately 100% of the currently proposed Gen-Tie Corridor/Collector Line intersects with this study.

Previously Recorded Cultural Resources

The SCCIC records search identified one previously recorded cultural resource that intersects with the Gen-Tie Corridor/Collector Line: P-19-003696 (historic-era refuse scatter) (Table 2; Confidential Attachment A). No other cultural resources were identified within the 0.5-mile radius of the Project area. P-19-003696 is described in further detail below Table 2.

Table 2. Previously Recorded Cultural Resources within 0.5 Miles of Project Area

Primary Number	Trinomial	Age	Type	Description	Attributes
Intersects with Project Area					
P-19-003696	-	Historic-era	Site	Refuse scatter	Privies/dumps/trash scatters

P-19-003696

P-19-003696 is characterized as a historic-era refuse scatter consisting of metal cans and bottle class. This resource was first recorded in 2007 by Soraya L. Mustain of Jones & Stokes in support of the SCE 66kV Antelope

Bus Split Project. The scatter was recorded as spanning approximately 8 feet (ft) by 14 ft. No artifact counts, artifact photos, sketch maps or other information were documented in the DPR site record prepared for this resource (Mustain 2007).

Archival Review

Dudek consulted historic aerial photographs (historic aerials) and historic topographic maps (historic topos) to better understand development of the Project area and surrounding properties over time. Historic aerials are available from 1948-2022 and historic topos are available from 1930-2020 (NETR 2025). This review references the Project components as delineated in Figure 2, Project Area.

Historic aerials dating back to 1948 show little to no development within the Solar Facility and Pronghorn BESS, while historic topos from 1930 show several wells located within the Solar Facility, likely associated with the Project area's past use as an agricultural operation. Overall, this review indicates no substantial development within the subject areas, side from consistent agricultural use during the latter half of the twentieth century (NETR 2025).

The first available historic aerial from 1948 and the first available historic topo from 1930 depict 90th Street East directly to the west of the Gen-Tie Corridor/Collector Line and a transmission line located within the Gen-Tie Corridor/Collector Line. There are no major changes to the subject area as evidenced by this archival review throughout the remainder of the twentieth century (NETR 2025).

The first available historic aerial depicts the Project Substation as undeveloped. By 1955, the SCE Piute Substation appears directly to the south of the Project Substation, while the Project Substation remains undeveloped. There is little change to the subject area as evidenced by the historic aerials until 1974, when a single structure is depicted within the Project Substation. By 1984, there is an additional structure located within the Project Substation. Overall, the historic topos reveal little additional information regarding the timing and development of the Project Substation. There are no major changes to the subject area as evidenced by this archival review throughout the remainder of the twentieth century (NETR 2025).

NAHC Sacred Lands File Search

Dudek requested a NAHC search of the Sacred Lands File (SLF) for the Project area and a half-mile radius on March 10, 2024, and May 2, 2025. The SLF consists of a database of known Native American resources. These resources may not be included in the SCCIC database. The NAHC replied via email on March 14, 2024, and May 13, 2025, respectively, stating that the SLF search was completed with negative results. Along with the results of the SLF search, the NAHC provided a list of Native American tribes and individuals/organizations with traditional geographic associations that might have knowledge of cultural resources in the area.

It is anticipated that this project is subject to compliance with Assembly Bill 52, which is a government-to-government process of project notification and, if requested, consultation, that occurs between the CEQA lead agency (County) and traditionally culturally affiliated California Native American Tribes. In order to ensure that this process is not disrupted, Dudek has not directly contacted any Native American tribes. Further tribal engagement and/or assessment of impacts to Tribal Cultural Resources should be documented within the environmental document prepared for the Project.

Pedestrian Survey

Dudek archaeologists David Faith, Mark Abelon, and Shane McDonnell conducted an intensive-level pedestrian survey of the Solar Facility and Gen-Tie Corridor/Collector Line from March 20-22, 2024, and Dudek archaeologist David Alexander conducted an intensive-level pedestrian survey of the Project Substation and Pronghorn BESS on March 8, 2025. The pedestrian survey employed standard archaeological procedures and techniques consistent with the Secretary of the Interior's Standards for archaeology. 10-meter interval survey transects were conducted, oriented in north-south cardinal directions. Where visible, the ground surface was examined for prehistoric artifacts (e.g., flaked stone tools, tool-making debris, stone milling tools, ceramics, fire-affected rock), soil discoloration that might indicate the presence of a cultural midden, soil depressions, features indicative of the current or former presence of structures or buildings (e.g., standing exterior walls, post holes, foundations), and historic artifacts (e.g., metal, glass, ceramics, building materials). Ground disturbances such as rodent/reptile burrows, cut banks, and drainages were also visually inspected for exposed subsurface materials. All fieldwork was documented using field notes and an Apple iPad equipped with ESRI Field Maps. Location-specific photographs were taken using an eighth-generation Apple iPad equipped with an eight (8) mega-pixel (MP) 1080p resolution camera and georeferenced PDF maps of the Project area. All field notes, photographs, and records related to the current study are on file at Dudek's Mission Viejo, California office. This summary references the Project components as delineated in Figure 2, Project Area.

The Solar Facility is comprised of farmland separated into two parcels. Vegetation, which was only present on the edges of the parcels where there was no cultivated soil, consisted of tumbleweed, mallow, Tamarisk trees, and native grasses. Ground surface visibility throughout the majority of the Solar Facility was excellent (100 percent), while ground surface visibility around the edges of Solar Facility was good (50-75 percent due to the vegetation cover). The soils within the Solar Facility consisted of dry, loose brown silt loam. The majority of the subject area consisted of disked soil, with numerous north-south trending rows present. There were a few overhead, long center pivot irrigation systems within the Solar Facility, as well as irrigation via ground laid pipes. Modern debris (e.g., refuse, plastic fragments, glass fragments) was noticeable around the perimeter of the Solar Facility. The Solar Facility also had several noncontiguous, tall, earthen berms around both parcels associated with its modern use as farmland. Additionally, in the northwestern section of the northern parcel, near the 90th Street East and East Avenue K intersection, there is a large, rectangular dug out pit, measuring approximately 140 ft long, 40 ft wide, and 12 ft deep. The pit was not recorded because it was assumed to be likely associated with the adjacent farmland and not a historic in age. Overall, the intensive-level pedestrian survey of the Solar Facility did not identify any archaeological resources within the subject area.

The Project area also consists of an approximately 1.25-mile long north-south trending Gen-Tie Corridor/Collector Line that runs parallel to 90th Street East along the western boundary of the Solar Facility parcels north to the Project Substation. Crews in 2024 and 2025 both attempted to and failed to relocate P-19-003696 as existing within this area of the Project. Because ground visibility along the proposed Gen-Tie Corridor/Collector Line was good (50-75%), it is assumed that P-10-003696 was either mis-mapped as existing within the Project area during original recordation in 2007, or was subject to grading, clearing, or cleanup efforts post-2007. A transmission line, likely dated pre-1948 as evidenced by Dudek's archival review, exists within this portion of the Project area. Overall, the intensive-level pedestrian survey of the Gen-Tie Corridor/Collector Line did not identify any archaeological resources within the subject area.

The Pronghorn BESS was surveyed in 2025. The subject area consisted of vacant land and included evidence of modern dumping and vehicle overland travel. Ground visibility was good throughout (50-75 percent). Vegetation and soils were consistent with the proposed Solar Facility. The intensive-level pedestrian survey of the Pronghorn BESS did not identify any archaeological resources within the subject area.

Due to access issues, an intensive-level pedestrian survey was not conducted for the proposed Project Substation. Instead, crews conducted a reconnaissance-level pedestrian survey of the subject area from the public right-of-way. During the survey, two extant structures were observed as existing within the Project area. These are likely the structures first identified in Dudek's article review dated circa 1974 and 1984, respectively. The reconnaissance-level pedestrian survey of the Project Substation did not identify any archaeological resources within the subject area.

Management Recommendations

Dudek's archaeological resources inventory of the Project indicates that there is a low potential for the inadvertent discovery of subsurface archaeological deposits during Project implementation. While the SCCIC records search identified one historic-era refuse scatter (P-19-003696) with the Project area, attempts to relocate the resource failed. Because of this, it is assumed that P-10-003696 was either mis-mapped as existing within the Project area during original recordation in 2007, or was subject to grading, clearing, or cleanup efforts post-2007. Additionally, the pedestrian survey of the remainder of the Project area did not identify any new archaeological resources. Overall, soils within the Project area are highly disturbed due to agricultural use and development. Based on these considerations, Dudek recommends no further archaeological efforts, including archaeological monitoring, to be necessary in support of the Project. However, there is a possibility that undisturbed strata below the plow zone could support the presence of previously unknown intact archaeological deposits. Management recommendations to reduce potential impacts to unanticipated archaeological resources and human remains during construction activities are provided below.

Unanticipated Archaeological Resources

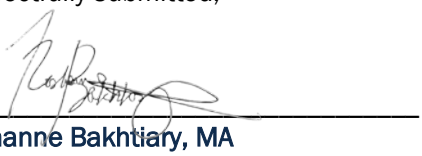
In the event that archaeological resources (sites, features, or artifacts) are exposed during construction activities for the Project, all construction work occurring within 50 feet of the find shall immediately stop until a qualified archaeologist meeting the Secretary of the Interior's Professional Qualification Standards can evaluate the significance of the find. Construction activities may continue in other areas, or use existing paths of travel, but should be redirected a safe distance from the find. Avoidance and/or preservation in place should be considered the preferred management approach wherever possible. Prehistoric archaeological deposits may be indicated by the presence of discolored or dark soil, fire-affected material, concentrations of fragmented or whole shell, burned or complete bone, non-local lithic materials, or the characteristic observed to be atypical of the surrounding area. Common prehistoric artifacts may include modified or battered lithic materials; lithic or bone tools that appeared to have been used for chopping, drilling, or grinding; projectile points; fired clay ceramics or non-functional items; and other items. Historic-age deposits are often indicated by the presence of glass bottles and shards, ceramic material, building or domestic refuse, ferrous metal, or old features such as concrete foundations or privies. Depending upon the significance of the find under CEQA (14 CCR 15064.5(f); PRC Section 21082), the archaeologist may simply record the find and allow work to continue. If the discovery proves significant under CEQA, additional work, such as preparation of an archaeological treatment plan, testing, or data recovery may be warranted.

Unanticipated Human Remains

In accordance with Section 7050.5 of the California Health and Safety Code, if human remains are found, the Los Angeles County Coroner (County Coroner) shall be immediately notified of the discovery. No further excavation or disturbance of the site or any nearby area reasonably suspected to overlie adjacent remains shall occur until the County Coroner has determined the appropriate treatment and disposition of the human. If the County Coroner determines that the remains are, or are believed to be, Native American, he or she shall notify the NAHC in Sacramento within 24 hours. In accordance with California Public Resources Code Section 5097.98, the NAHC must immediately notify those persons it believes to be the most likely descendant (MLD) from the deceased Native American. Upon completing his/her inspection, the MLD may make recommendations for the treatment and disposition, in consultation with the property owner, of the human remains.

Should you have any questions relating to this report and its findings, please do not hesitate to contact me at 760.557.0998 or rbakhtiary@dudek.com.

Respectfully submitted,



Roshanne Bakhtiary, MA
Archaeologist

Att.: *Figure 1 – Project Location Map*
Figure 2 – Project Area Map
Appendix A – SCCIC Records Search Results
Appendix B – NAHC Sacred Lands File Search Results

cc: William Burns, MA, RPA, Dudek; *Erin Phillips, Dudek*

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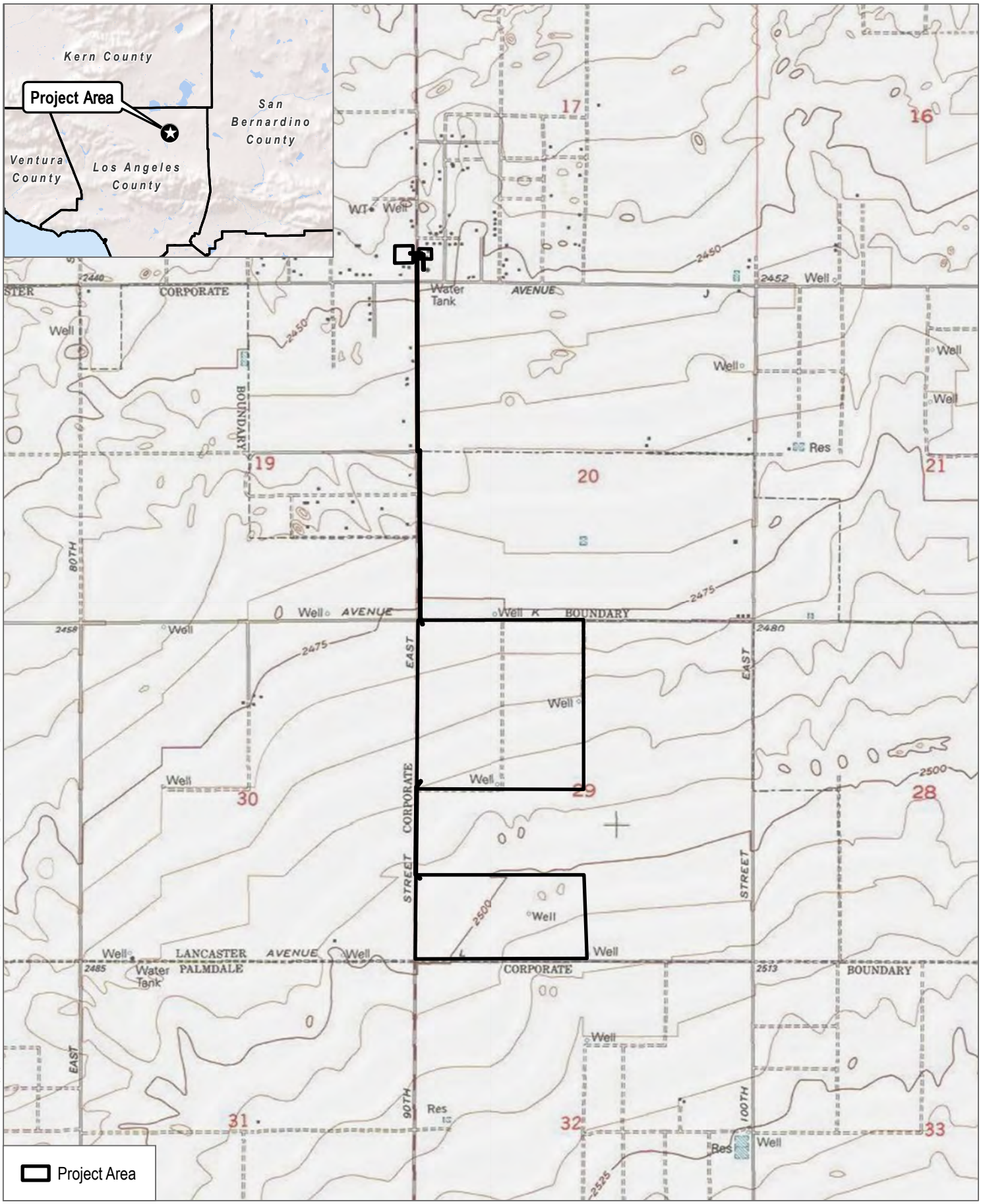


FIGURE 1

Project Location

Pronghorn Solar and Storage Project



SOURCE: Bing Maps

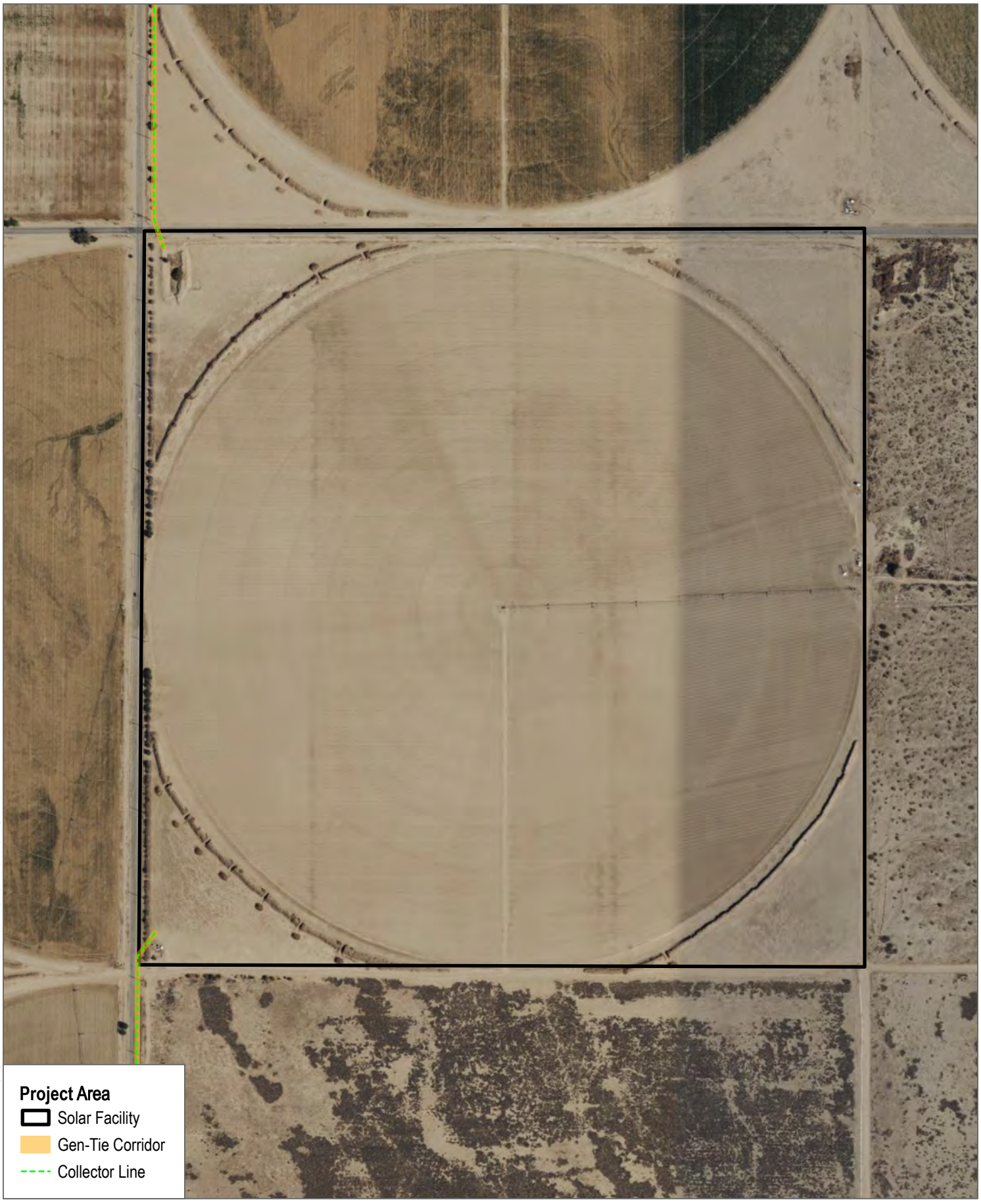
DUDEK

0 230 460 Feet

FIGURE 2a

Project Area

Pronghorn Solar and Storage Project



SOURCE: Bing Maps

DUDEK

0 230 460 Feet

FIGURE 2b

Project Area

Pronghorn Solar and Storage Project



SOURCE: Bing Maps

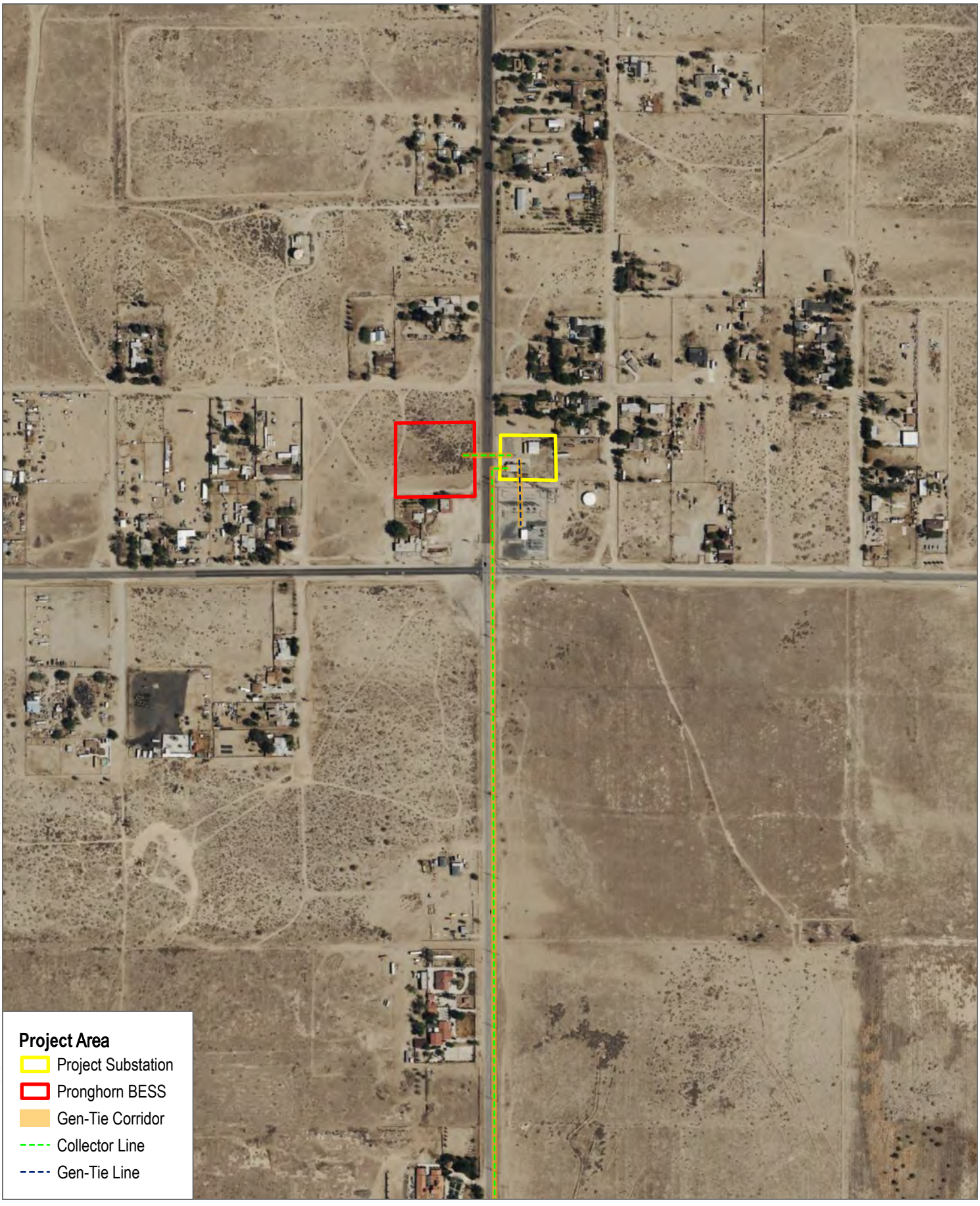
DUDEK

0 230 460 Feet

FIGURE 2c

Project Area

Pronghorn Solar and Storage Project



SOURCE: Bing Maps

DUDEK

0 230 460 Feet

FIGURE 2d

Project Area

Pronghorn Solar and Storage Project

Appendix A

SCCIC Records Search Results

Appendix B

NAHC Sacred Lands File Search Results

Roshanne Bakhtiary

From: Roshanne Bakhtiary
Sent: Thursday, February 29, 2024 11:49 AM
To: NAHC@NAHC
Subject: NAHC SLF Request - DUDEK Pronghorn 14482.04
Attachments: NAHC_SLF_Request_PN 14482.04.pdf

Dear NAHC,

Please find attached to this email the NAHC Sacred Lands File Search request with project location map for the Pronghorn Solar and Battery Energy Storage System Project (Dudek #11438.85) located in unincorporated Antelope Valley, Los Angeles County, California. Dudek is requesting an NAHC Sacred Lands File Search for any sacred sites, tribal cultural resources, and other places of Native American community value that may fall within a half-mile radius of the proposed project location.

Please let me know if you have any questions regarding this project. You can email the results to me at: rbakhtiary@dudek.com.

Thank you,

Roshanne Bakhtiary
Archaeologist
DUDEK

O: 949 373 8307 **C:** 760 557 0998
dudek.com



Sacred Lands File & Native American Contacts List Request

Native American Heritage Commission
1550 Harbor Blvd, Suite 100
West Sacramento, CA 95691
916-373-3710
916-373-5471 – Fax
nahc@nahc.ca.gov

Information Below is Required for a Sacred Lands File Search

Project: Pronghorn Solar and BESS Project PN 14482.04

County: Los Angeles

USGS Quadrangle Name: Alpine Butte

Township: 7N **Range:** 10W **Section(s):** 19, 20, 21, 28, 29, 30, 31 and 32

Company/Firm/Agency: DUDEK

Street Address: 605 3rd Street

City: Encinitas, CA **Zip:** 92024

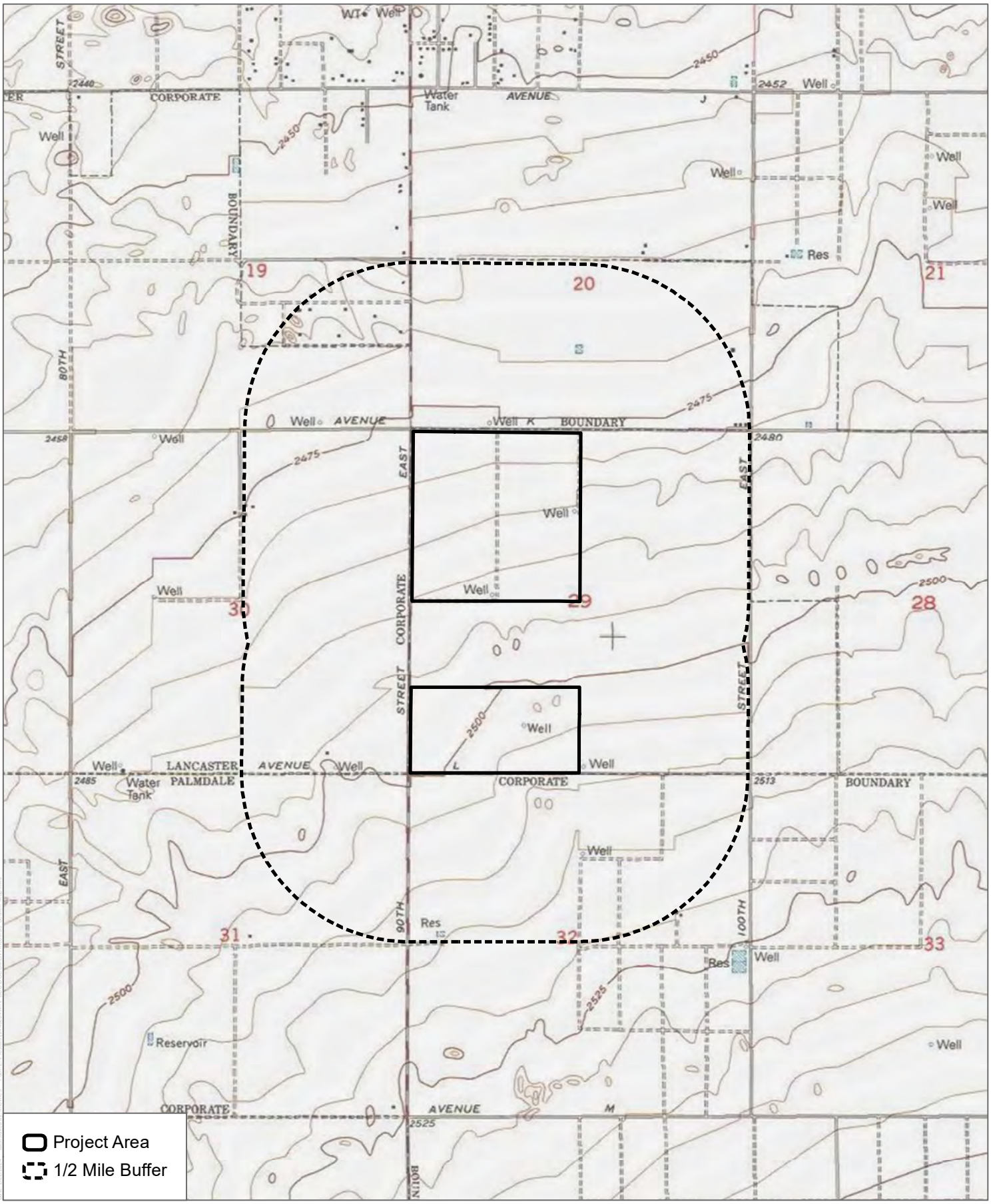
Phone: (760) 557-0998

Fax:

Email: rbakhtiary@dudek.com

Project Description:

The project involves the development of a solar and battery energy storage sysytem on approximately 240 acres located on two parcels in unincorporated Antelope Valley, California.



SOURCE: USGS 7.5-Minute Series Alpine Butte Quadrangle
Township 7N; Range 10W; Sections 19, 20, 21, 28, 29, 30, 31, 32

DUDEK

0 1,000 2,000 Feet
0 285 570 Meters
1:24,000

Records Search

Pronghorn Solar BESS Project

Roshanne Bakhtiary

From: Green, Andrew@NAHC <Andrew.Green@nahc.ca.gov>
Sent: Thursday, March 14, 2024 3:39 PM
To: Roshanne Bakhtiary
Subject: Pronghorn Solar and BESS Project
Attachments: SLF No Pronghorn Solar and BESS Project 3.14.2024.pdf; Pronghorn Solar and BESS Project 3.14.2024.xlsx

Follow Up Flag: Follow up
Flag Status: Flagged

Good Afternoon,

Attached is the response to the project referenced above. If you have any additional questions, please feel free to contact our office email at nahc@nahc.ca.gov.

In our ongoing effort to enhance your user experience and increase functionality, we have transitioned from distributing data in PDF Format to Excel Format. This change allows you to take full advantage of features such as searching, filtering, and mail-merging, making it easier for you to handle and utilize the data provided. If you encounter any technical difficulties, or if you have any questions regarding this new format, please do not hesitate to reach out to me directly.

Regards,

Andrew Green
Native American Heritage Commission
1550 Harbor Blvd., Suite 100
West Sacramento, CA 95691
Andrew.Green@nahc.ca.gov
Direct Line: (916) 573-1072
Office: (916) 373-3710

NATIVE AMERICAN HERITAGE COMMISSION

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Reginald Pagaling
Chumash

VICE-CHAIRPERSON
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Kumeyaay

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Serrano

COMMISSIONER
Reid Milanovich
Cahuilla

COMMISSIONER
Vacant

EXECUTIVE SECRETARY
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Miwok, Nisenan

NAHC HEADQUARTERS
1550 Harbor Boulevard
Suite 100
West Sacramento,
California 95691
(916) 373-3710
nahc@nahc.ca.gov
NAHC.ca.gov

March 14, 2024

Roshanne Bakhtiary
DUDEK

Via Email to: rbakhtiary@dudek.com

Re: Pronghorn Solar and BESS Project, Los Angeles County

To Whom It May Concern:

A record search of the Native American Heritage Commission (NAHC) Sacred Lands File (SLF) was completed for the information you have submitted for the above referenced project. The results were negative. However, the absence of specific site information in the SLF does not indicate the absence of cultural resources in any project area. Other sources of cultural resources should also be contacted for information regarding known and recorded sites.

Attached is a list of Native American tribes who may also have knowledge of cultural resources in the project area. This list should provide a starting place in locating areas of potential adverse impact within the proposed project area. I suggest you contact all of those indicated; if they cannot supply information, they might recommend others with specific knowledge. By contacting all those listed, your organization will be better able to respond to claims of failure to consult with the appropriate tribe. If a response has not been received within two weeks of notification, the Commission requests that you follow-up with a telephone call or email to ensure that the project information has been received.

If you receive notification of change of addresses and phone numbers from tribes, please notify me. With your assistance, we can assure that our lists contain current information.

If you have any questions or need additional information, please contact me at my email address: Andrew.Green@nahc.ca.gov.

Sincerely,

Andrew Green

Andrew Green
Cultural Resources Analyst

Attachment

Native American Heritage Commission
Native American Contact List
Los Angeles County
3/14/2024

Tribe Name	F/N	Contact Person	Contact Address	Phone #	Email Address	Cultural Affiliation	Counties	Last Updated
Fernandeno Tataviam Band of Mission Indians	N	Sarah Brunzell, CRM Manager	1019 Second Street San Fernando, CA, 91340	(818) 837-0794	CRM@tataviam-nsn.us	Tataviam	Kern, Los Angeles, Ventura	5/25/2023
Kern Valley Indian Community	N	Robert Robinson, Chairperson	P.O. Box 1010 Lake Isabella, CA, 93240	(760) 378-2915	bbutterbredt@gmail.com	Kawaiisu Tubatulabal	Inyo, Kern, Los Angeles, San Bernardino, Tulare	1/29/2024
Kern Valley Indian Community	N	Brandy Kendricks, Tribal Member Monitor	30741 Foxridge Court Tehachapi, CA, 93561	(661) 821-1733	krazykendricks@hotmail.com	Kawaiisu Tubatulabal	Inyo, Kern, Los Angeles, San Bernardino, Tulare	1/29/2024
Morongo Band of Mission Indians	F	Ann Brierty, THPO	12700 Pumarra Road Banning, CA, 92220	(951) 755-5259	abrierty@morongo-nsn.gov	Cahuilla Serrano	Imperial, Kern, Los Angeles, Riverside, San Bernardino, San Diego	
Morongo Band of Mission Indians	F	Robert Martin, Chairperson	12700 Pumarra Road Banning, CA, 92220	(951) 755-5110	abrierty@morongo-nsn.gov	Cahuilla Serrano	Imperial, Kern, Los Angeles, Riverside, San Bernardino, San Diego	
Quechan Tribe of the Fort Yuma Reservation	F	Jordan Joaquin, President, Quechan Tribal Council	P.O.Box 1899 Yuma, AZ, 85366	(760) 919-3600	executivesecretary@quechantribe.com	Quechan	Imperial, Kern, Los Angeles, Riverside, San Bernardino, San Diego	5/16/2023
Quechan Tribe of the Fort Yuma Reservation	F	Manfred Scott, Acting Chairman - Kw'ts'an	P.O. Box 1899 Yuma, AZ, 85366	(928) 210-8739	culturalcommittee@quechantribe.com	Quechan	Imperial, Kern, Los Angeles, Riverside, San Bernardino, San Diego	5/16/2023

Tribe Name	F/N	Contact Person	Contact Address	Phone #	Email Address	Cultural Affiliation	Counties	Last Updated
		Cultural Committee						
Quechan Tribe of the Fort Yuma Reservation	F	Jill McCormick, Historic Preservation Officer	P.O. Box 1899 Yuma, AZ, 85366	(928) 261-0254	historicpreservation@quechantribe.com	Quechan	Imperial, Kern, Los Angeles, Riverside, San Bernardino, San Diego	5/16/2023
San Fernando Band of Mission Indians	N	Donna Yocum, Chairperson	P.O. Box 221838 Newhall, CA, 91322	(503) 539-0933	dyocum@sfbmi.org	Kitanemuk Vanyume Tataviam	Kern, Los Angeles, San Bernardino, Ventura	5/8/2023
San Manuel Band of Mission Indians	F	Alexandra McCleary, Senior Manager of Cultural Resources Management	26569 Community Center Drive Highland, CA, 92346	(909) 633-0054	alexandra.mccleary@sanmanuel-nsn.gov	Serrano	Kern, Los Angeles, Riverside, San Bernardino	1/16/2024
Serrano Nation of Mission Indians	N	Mark Cochrane, Co-Chairperson	P. O. Box 343 Patton, CA, 92369	(909) 578-2598	serranonation1@gmail.com	Serrano	Kern, Los Angeles, Riverside, San Bernardino	10/10/2023
Serrano Nation of Mission Indians	N	Wayne Walker, Co-Chairperson	P. O. Box 343 Patton, CA, 92369	(253) 370-0167	serranonation1@gmail.com	Serrano	Kern, Los Angeles, Riverside, San Bernardino	10/10/2023

This list is current only as of the date of this document. Distribution of this list does not relieve any person of statutory responsibility as defined in Section 7050.5 of the Health and Safety Code, Section 5097.94 of the Public Resource Section 5097.98 of the Public Resources Code.

This list is only applicable for contacting local Native Americans with regard to cultural resources assessment for the proposed Pronghorn Solar and BESS Project, Los Angeles County.

Roshanne Bakhtiary

From: Roshanne Bakhtiary
Sent: Friday, May 2, 2025 8:05 AM
To: NAHC@NAHC
Subject: DUDEK PN 14482.04 NAHC SLF Search Request
Attachments: DUDEK_14482.04_NAHC_SLF_Request.pdf

Dear NAHC,

Please find attached to this email the NAHC Sacred Lands File search request with project location map for DUDEK PN 14482.04, located in Los Angeles County, California. Dudek is requesting an NAHC Sacred Lands File Search for any sacred sites, tribal cultural resources, and other places of Native American community value that may fall within a half-mile radius of the proposed project location.

Please let me know if you have any questions regarding this project. You can email the results to me at: rbakhtiary@dudek.com.

Thanks in advance,

Roshanne Bakhtiary
Archaeologist
DUDEK 45 Years of Impactful Projects

O: 949 373 8307 **C:** 760 557 0998
dudek.com

Sacred Lands File & Native American Contacts List Request

Native American Heritage Commission
1550 Harbor Blvd, Suite 100
West Sacramento, CA 95691
916-373-3710
916-373-5471 – Fax
nahc@nahc.ca.gov

Information Below is Required for a Sacred Lands File Search

Project: Dudek PN 14482.04

County: Los Angeles

USGS Quadrangle Name: Alpine Butte

Township: 7N **Range:** 10W **Section(s):** 16-21 and 28-33

Company/Firm/Agency: Dudek

Street Address: 605 3rd Street

City: Encinitas, CA **Zip:** 92024

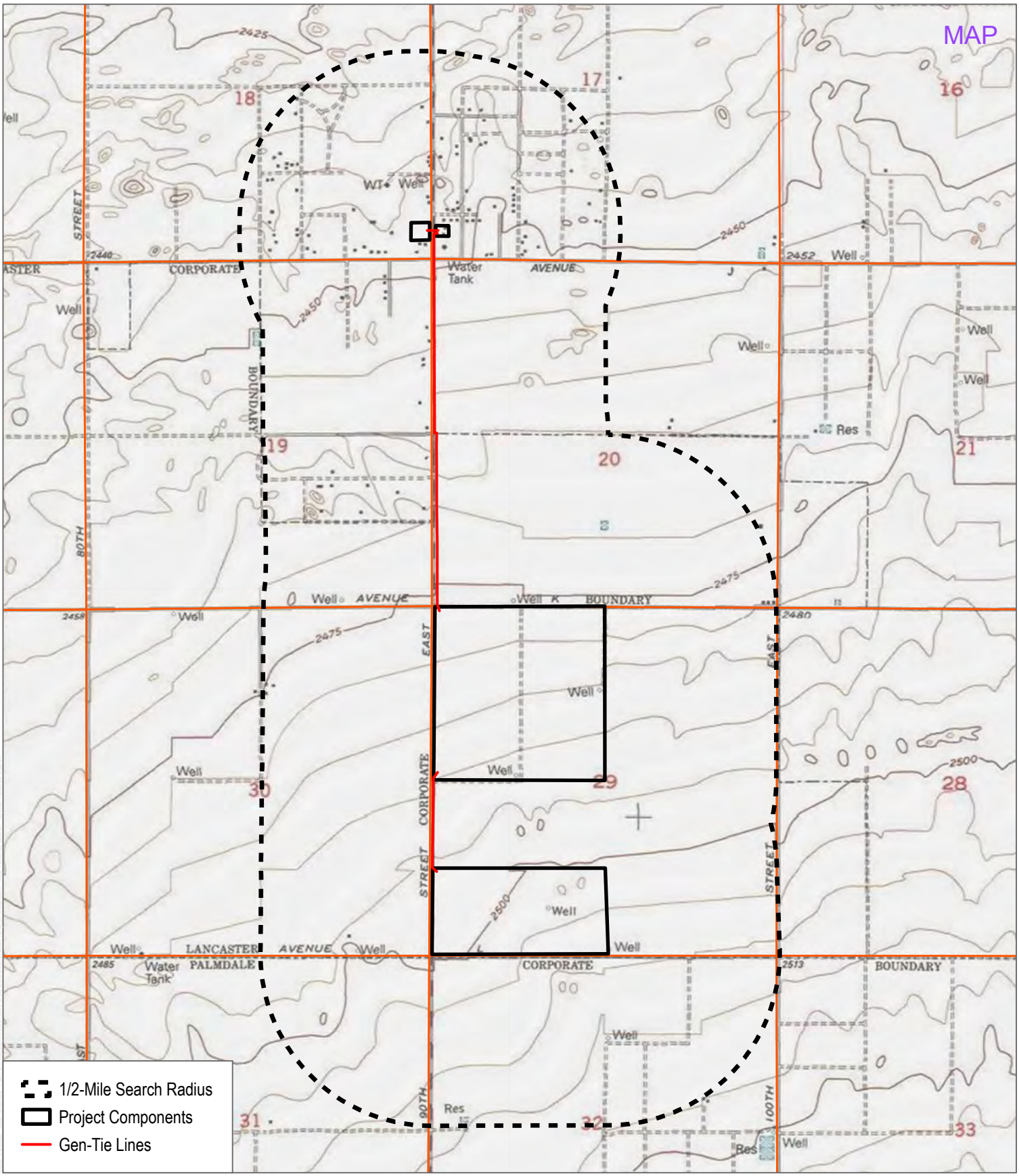
Phone: (760) 557-0998

Fax:

Email: rbakhtiary@dudek.com

Project Description:

Solar and battery energy storage



SOURCE: USGS 7.5-Minute Series 1:24,000

Alpine Butte Quadrangle - T7N | R10W | S16-21 & 28-33

DUDEK

0 1,000 2,000 Feet

0 300 600 Meters

Records Search

Pronghorn Solar and Storage Project

Roshanne Bakhtiary

From: Green, Andrew@NAHC <Andrew.Green@nahc.ca.gov>
Sent: Tuesday, May 13, 2025 11:20 AM
To: Roshanne Bakhtiary
Subject: Dudek PN 14482.04 Project
Attachments: SLF No Dudek PN 14482.04 Project 5.13.2025.pdf; Dudek PN 14482.04 Project 5.13.2025.xlsx

Follow Up Flag: Follow up
Flag Status: Flagged

Good Morning,

Attached is the response to the project referenced above. If you have any additional questions, please feel free to contact our office email at nahc@nahc.ca.gov.

Regards,

Andrew Green
Native American Heritage Commission
1550 Harbor Blvd., Suite 100
West Sacramento, CA 95691
Andrew.Green@nahc.ca.gov
Direct Line: (916) 573-1072
Office: (916) 373-3710

NATIVE AMERICAN HERITAGE COMMISSION

CHAIRPERSON
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Stanley Rodriguez
Kumeyaay

COMMISSIONER
Reid Milanovich
Cahuilla

COMMISSIONER
Bennae Calac
Pauma-Yuima Band of Luiseño Indians

COMMISSIONER
Vacant

ACTING EXECUTIVE SECRETARY
Steven Quinn

NAHC HEADQUARTERS
1550 Harbor Boulevard
Suite 100
West Sacramento,
California 95691
(916) 373-3710
nahc@nahc.ca.gov

May 13, 2025

Roshanne Bakhtiary
Dudek

Via Email to: rbakhtiary@dudek.com

Re: Dudek PN 14482.04 Project, Los Angeles County

To Whom It May Concern:

As requested, a record search of the Native American Heritage Commission (NAHC) Sacred Lands File (SLF) was completed based on information submitted for the above referenced project. The results were negative. Please note that tribes do not always record their sacred sites in the SLF, nor are they required to do so. As such, a SLF search is not a substitute for consultation with all tribes that are traditionally and culturally affiliated with a project's geographic area.

Attached is a list of Native American tribes who may also have knowledge of cultural resources in the project area. This list should provide a starting place in locating areas of potential adverse impact within the proposed project area. Please contact all of those listed; if they cannot supply information, they may recommend others with specific knowledge. If within two weeks of notification, a response has not been received, the Commission requests that you follow-up with a telephone call or email to ensure that the project information was received.

If you receive notification of a change of address or phone number from a tribe, please notify the NAHC so that we can assure that our lists contain current information.

In addition to engaging in tribal consultation, you should consult the appropriate regional California Historical Research Information System (CHRIS) archaeological Information Center to determine whether it has information regarding the presence of recorded archaeological sites within the project area.

If you have any questions or need additional information, please contact me at Andrew.Green@nahc.ca.gov.

Sincerely,

Andrew Green

Andrew Green
Cultural Resources Analyst

Attachment

Native American Heritage Commission
Native American Contact List
Los Angeles County
5/13/2025

Tribe Name	F/N	Contact Person	Contact Address	Phone #	Email Address	Cultural Affiliation	Counties	Last Updated
Fernandeno Tataviam Band of Mission Indians	N	Sarah Brunzell, CRM Manager	1019 Second Street San Fernando, CA, 91340	(818) 837-0794	CRM@tataviam-nsn.us	Tataviam	Kern, Los Angeles, Ventura	5/25/2023
Kern Valley Indian Community	N	Robert Robinson, Chairperson	P.O. Box 1010 Lake Isabella, CA, 93240	(760) 378-2915	bbutterbredt@gmail.com	Kawaiisu Tubatulabal	Inyo, Kern, Los Angeles, San Bernardino, Tulare	1/29/2024
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Quechan Indian Tribe of the Fort Yuma Reservation	F	Jordan Joaquin, President, Quechan Tribal Council	P.O.Box 1899 Yuma, AZ, 85366-1899	(760) 919-3600	executivesecretary@quechantribe.com	Quechan	Imperial, Kern, Los Angeles, Riverside, San Bernardino, San Diego	1/31/2025
Quechan Indian Tribe of the Fort Yuma Reservation	F	Jill McCormick, Historic Preservation Officer	P.O. Box 1899 Yuma, AZ, 85366-1899	(928) 261-0254	historicpreservation@quechantribe.com	Quechan	Imperial, Kern, Los Angeles, Riverside, San Bernardino, San Diego	1/31/2025

Tribe Name	F/N	Contact Person	Contact Address	Phone #	Email Address	Cultural Affiliation	Counties	Last Updated
San Fernando Band of Mission Indians	N	Donna Yocum, Chairperson	P.O. Box 221838 Newhall, CA, 91322	(503) 539-0933	dyocum@sfbmi.org	Kitanemuk Vanyume Tataviam	Kern, Los Angeles, San Bernardino, Ventura	5/8/2023
San Manuel Band of Mission Indians	F	Alexandra McCleary, Senior Manager of Cultural Resources Management	26569 Community Center Drive Highland, CA, 92346	(909) 633-0054	alexandra.mccleary@sanmanuel-nsn.gov	Serrano	Kern, Los Angeles, Riverside, San Bernardino	1/16/2024
Serrano Nation of Mission Indians	N	Mark Cochrane, Co-Chairperson	P. O. Box 343 Patton, CA, 92369	(909) 578-2598	serranonation1@gmail.com	Serrano	Kern, Los Angeles, Riverside, San Bernardino	10/10/2023
Serrano Nation of Mission Indians	N	Wayne Walker, Co-Chairperson	P. O. Box 343 Patton, CA, 92369	(253) 370-0167	serranonation1@gmail.com	Serrano	Kern, Los Angeles, Riverside, San Bernardino	10/10/2023

This list is current only as of the date of this document. Distribution of this list does not relieve any person of statutory responsibility as defined in Section 7050.5 of the Health and Safety Code, Section 5097.94 of the Public Resources Code and Section 5097.98 of the Public Resources Code.

This list is only applicable for contacting local Native Americans with regard to cultural resources assessment for the proposed Dudek PN 14482.04 Project, Los Angeles County.

Appendix E

Preliminary Geotechnical Engineering Report

DRAFT

PRELIMINARY

GEOTECHNICAL ENGINEERING REPORT

Proposed Pronghorn Solar and Storage Project
APNs 3376-006-012, 3376-011-035, 3378-003-001, and 3378-004-008
Vicinity of East Avenue J and 90th Street East
Vicinity of Lancaster, Los Angeles County, California
File No.: LA-02201-01
Project No.: 307256-001

Prepared For

UPSTREAM RENEWABLE DEV I LLC

August 8, 2025

Prepared By

Earth Systems Pacific
2122 East Walnut Street, Suite 200
Pasadena, California 91107

(626) 356-0955

EARTH SYSTEMS
2122 E. Walnut Street, Suite 200 | Pasadena, CA 91107 | (626) 356-0955 | www.earthsystems.com

August 8, 2025

File No.: LA-02201-01
Project No.: 307256-001

Upstream Renewable Dev.I LLC
7650 Girard Avenue, Suite 300
La Jolla, CA 92037

Attention: Mr. Max Margolin

Subject: **Preliminary Geotechnical Engineering Report**
Proposed Pronghorn Solar and Storage Project
APN 3376-006-012, 3376-011-035, 3378-003-001, and 3378-004-008
Vicinity of East Avenue J and 90th Street East
Lancaster, Los Angeles County, California

Presented herewith is the Preliminary Geotechnical Engineering Report prepared, as authorized, for the site of a proposed solar and storage facility in the Lancaster area of Los Angeles County, California. The conclusions and recommendations contained in this report are based upon Earth Systems' understanding of the proposed solar storage facility and on analyses of the data obtained from the field and laboratory testing programs.

The recommendations provided in this report generally pertain to criteria for site grading and foundation design. Earth Systems strives to provide analyses and recommendations in accordance with the applicable standards of care for the geotechnical engineering profession at the time the study is conducted. The submittal of this report marks the completion of the scope of geotechnical engineering services described in Earth Systems' proposal dated March 26, 2025, and authorized on June 3, 2025. Other services which may be required, such as grading observation and construction testing, are additional services that will be billed according to the Fee Schedule in effect at the time such services are provided. Budgets for these services, which are dependent upon design and construction schedules, can be provided when requested. Earth Systems appreciates this opportunity to provide professional geotechnical engineering services for this project. If you need clarification of the information contained in this report, or if Earth Systems can be of additional service, please contact the undersigned.

Respectfully submitted,
Earth Systems Pacific

Christopher F. Allen, E.G.
Project Engineering Geologist

Distribution: Addressee, Max Margolin (Max@Upstream.energy)

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August 8, 2025

File No.: LA-02201-01
Project No.: 307256-001

PRELIMINARY GEOTECHNICAL ENGINEERING REPORT
PROPOSED PRONGHORN SOLAR AND STORAGE PROJECT
APNS 3376-006-012, 3376-011-035, 3378-003-001, AND 3378-004-008
VICINITY OF EAST AVENUE J AND 90TH STREET EAST
LANCASTER, LOS ANGELES COUNTY, CALIFORNIA

INTRODUCTION

This Preliminary Geotechnical Engineering Report has been prepared for the site of a proposed solar battery energy storage system (BESS). The purpose of this study was to evaluate the geotechnical engineering characteristics of the on-site subsurface soils relative to the anticipated development.

This report includes:

1. Descriptions of the field exploration and laboratory tests performed.

2. Evaluation of hydroconsolidation potential for soils beneath the site.

3. Conclusions and recommendations relating to construction of the proposed solar energy and storage facility based upon analyses of data obtained from the exploration and testing programs, and on knowledge of the general and site-specific characteristics of the subsurface soils.

SITE DESCRIPTION

The project consists of four separate parcels totaling approximate 235-acre site located along 90th Street East partially in the City of Lancaster and partially in unincorporated land in Los Angeles County, California. The site is approximately 11 miles west of the Antelope Valley (Highway 14) Freeway and approximately 11 miles north of the 138 Highway (see Plates I and II). Access to each of the lots is available from 90th Street East. The project will occupy the following four parcels:

1. **Proposed Substation Location.** Parcel 3376-011-035, east side of 90th Street East approximately 400 feet north of East Avenue J. The rectangular-shaped parcel encompasses approximately three quarters of an acre. The ground slopes gently to the north at an elevation of approximately 2443 feet above mean sea level (msl). Currently, this parcel contains remnants of an abandoned pump station including two single-story buildings. One structure is constructed with a steel frame, while the other utilizes a wood-frame system. Both buildings are constructed on slab-on-grade foundations. The entire site is enclosed by

a fence, and the surface is primarily covered with asphalt concrete and a concrete driveway. See Site Exploration Map – BESS and Substation, Plate III.

2. **Proposed BESS location.** Parcel 3376-006-012, west side of 90th Street East approximately 400 feet north of East Avenue J. The rectangular-shaped parcel encompasses approximately 1.8 acres. The ground slopes gently to the north at an elevation of approximately 2440 feet msl. It is currently unoccupied and covered in native desert vegetation. See Site Exploration Map – BESS and Substation, Plate III.

3. **Proposed North Solar Farm**. Parcel 3378-003-001, east side of 90th Street East at the southeast corner of East Avenue K and 90th Street East. The nearly square-shaped parcel encompasses approximately 156 acres. The ground slopes gently to the north at elevations ranging from 2495 feet to 2477 feet msl. It is currently unoccupied but has been cultivated for agriculture in the past. See Site Exploration Map – North Solar Farm, Plate IV.

4. **Proposed South Solar Farm**. Parcel 3378-004-008, east side of 90th Street East at the northeast corner of East Avenue L and 90th Street East. The rectangular-shaped parcel encompasses approximately 79 acres. The ground slopes gently to the north at elevations ranging from 2508 feet to 2500 feet msl. It is currently being irrigated and cultivated for agriculture. See Site Exploration Map – South Solar Farm, Plate V.

PROJECT DESCRIPTION

Based on discussions with the project design engineer (Flowers & Associates, Inc.), and review of the preliminary plans provided, Earth Systems understands that the proposed project will consist of:

1. A new electrical substation at parcel 3376-011-035, including electrical transformers, monopole power transmission towers from 25 to 48 feet tall, multi-column electrical tower-type structures 18 to 29 feet tall, various other electrical equipment, and a gravel driveway. A one-story metal building, identified as a “control enclosure” is indicated on the plans and is assumed to be the only structure for human occupancy on the project.

2. A battery energy storage system (BESS) at parcel 3376-006-012 including four rows of nine pairs of battery enclosure units, three 10,000-gallon above-ground water storage tanks (assumed to be about 12 feet in diameter by 12 feet tall), and a gravel driveway. The battery enclosures will be 5.5 feet wide by 29 feet long and each pair of enclosures will be joined to another pair by a medium voltage transformer.

3. A new solar farm at parcel 3378-003-001 (“North Solar Farm”), including many rows of ground-mounted photovoltaic solar panels, at least two power conversion stations, and several gravel roads.

4. A new solar farm at parcel 3378-004-008 ("South Solar Farm"), including many rows of ground-mounted photovoltaic solar panels, at least two power conversion stations, and several gravel roads.

Metal fences up to nine feet tall are indicated as well as a concrete block wall up to 10 feet tall. Gravel-filled stormwater infiltration trenches, five feet deep by two or more feet wide, will be situated at selected locations within the solar farms and potentially at the substation and BESS parcels. Based on the plans, the project will not include parking lots, walkways, or landscaping.

Earth Systems has not received structural foundation plans for the proposed control enclosure building, electrical equipment, water storage tanks, BESS units, or PV solar panels as of this writing. Based on experience with similar projects, transmission towers and other structures to support electrical equipment in the proposed electrical substation are assumed to impose axial compression and tension loads up to 20 kips and 15 kips, respectively, on their foundations. Other structural loads, for the substation control enclosure building or other small building structures, are not expected to exceed 2,000 pounds per linear foot (plf) for bearing walls. The water storage tanks will exert a ground pressure of about 750 psf based on 12 feet of water. Based on experience with similar projects, the fully loaded individual battery storage compartments will weigh approximately 84,000 pounds each.

Because of the relatively flat site topography, Earth Systems has assumed that conventional cut and fill methods will be used to grade the site, with permanent slope heights of no more than five feet. These assumptions were used as the basis for the exploration, testing, and analyses programs, and for the recommendations contained in this report. If the anticipated foundation loads or other site conditions vary significantly from the values stated herein, the recommendations should be reconfirmed prior to completing project plans.

PURPOSE AND SCOPE OF SERVICES

The purpose of Earth Systems' services was to evaluate the project site soil conditions, and to provide preliminary geotechnical engineering conclusions and recommendations relative to the project site and the proposed solar energy and storage project. Earth Systems' scope of services included the following:

A. A general reconnaissance of the site.

B. Shallow subsurface exploration of the project site by drilling twelve hollow-stem auger test borings at the proposed substation parcel, proposed north solar farm parcel, and proposed south solar farm parcel. Access to the proposed BESS parcel was not available at the time of the recent exploration and should be investigated later.

C. Geotechnical laboratory testing of selected soil samples obtained from the exploration program conducted for this project.

D. Geotechnical engineering analysis of the data obtained from the exploration and testing programs.

E. A summary of findings and recommendations in this written report.

Contained in this report are:

A. Discussions on local and site-specific soil conditions.

B. Results of laboratory tests and field data.

C. Evaluation of susceptibility of site soils to hydroconsolidation (hydrocollapse).

D. Recommendations relating to the proposed solar energy and storage project, including allowable foundation bearing capacity, recommendations for foundation design, estimated total and differential foundation settlements, site grading criteria, lateral earth pressures, soil expansion characteristics, and soil corrosion characteristics.

SITE HISTORY

Based on Google Earth, the two proposed solar farm parcels have been cultivated for agriculture since at least 2003 but were unused in 1985. The proposed Substation site has been occupied since at least 2003 and the proposed BESS site appears to have remained unoccupied since 1985.

The County of Los Angeles Department of Public Works archives were reviewed for available geotechnical reports for the subject site and contiguous properties. A geotechnical engineering report was found for the parcel at the northwest corner of 90th Street East and Avenue J East adjacent to the south side of the proposed BESS site. That report (Bruin, 2023) indicates that two exploratory borings were drilled to depths of 30 and 50 feet below grade. Alluvial soils consisting of silty sands and silts were encountered. Free groundwater was not encountered. Copies of those boring logs are included along with Earth Systems' boring logs in Appendix A.

FIELD EXPLORATION

The field exploration for this study was conducted on June 16, 2025. Field exploration included drilling and sampling eleven exploratory hollow-stem auger test borings to depths of approximately 5 to 20 feet below the existing ground surface. The approximate locations of the exploratory test borings, as indicated on the attached Site Exploration Maps (Plates III, IV and V), were determined by sighting and tape measuring from existing surrounding improvements. The locations of the borings should be considered accurate only to the degree implied by the measurement method used.

Bulk (disturbed) samples of the subsurface soils were obtained from tailings generated during drilling at selected borings. These samples were secured for classification and testing purposes and represent mixtures of soils within the noted depths.

Additional soil samples ("ring samples") were secured from within the test borings using a three-inch outside diameter ring sampler (ASTM D 3550). A 140-pound hammer falling approximately 30 inches (ASTM D 1586) drove the sampler. The hammer was operated by an automatic trip mechanism. The number of blows required to drive the sampler 18 inches was recorded in 6-inch increments and recorded on the boring logs. Recovered ring samples were sealed in plastic containers and transported to the Earth Systems laboratory for further classification and testing.

Further sampling and collection of disturbed soil samples was accomplished using the Standard Penetration Test (SPT) sampler in accordance with ASTM D 1586. The SPT sampler is a split barrel sampler with a 1-3/8 inch inside diameter. This sampler is also driven by a 140-pound hammer falling approximately 30 inches. The number of blows required to drive the sampler 18 inches was recorded in six-inch increments and recorded on the boring logs. Soil samples recovered by this method were sealed in plastic bags. Recovered soil samples were transported to the Earth Systems laboratory for further classification and testing.

The logs of test borings for this report, included in Appendix A, represent Earth Systems' interpretation of the field logs prepared for each test boring by Earth Systems' staff, along with their interpretation of soil conditions between samples and results of laboratory tests. While the noted stratification lines represent approximate boundaries between soil types, the actual transitions may be gradual.

No subsurface exploration has yet been conducted on the proposed BESS parcel. The proposed BESS energy storage units and proposed water tanks will have foundations requiring grading and ground support. Drilling or other suitable subsurface investigation of that parcel will be necessary before geotechnical recommendations can be confirmed for that area.

LABORATORY TESTING

After visual and tactile classification in the field, the soil samples were brought to Earth Systems' laboratory. Soil samples were classified visually in accordance with the Unified Soil Classification System and the following tests were conducted:

A. Moisture content and dry unit weight for soil ring samples were evaluated (ASTM D 2937 and ASTM D 2216).

B. Soil grain size was evaluated using Particle Size Analysis: Mechanical Method (ASTM D 422).

C. The relative strength characteristics of selected ring samples of the near-surface soils were estimated from the results of direct shear tests (ASTM D 3080). The specimens were placed

in contact with water for at least 24 hours before testing and then sheared under normal loads ranging from approximately 1 to 4 kips per square foot (ksf). Samples were sheared to sufficient strains so that both peak and ultimate values were evaluated.

D. Consolidation tests (ASTM D 2435) were conducted on selected soil ring samples. The maximum stress during testing was 12.8 ksf. The samples were saturated at 0.8 ksf to check the hydroconsolidation potential and unloaded to 0.8 ksf to check the rebound characteristics.

E. Expansion potential was evaluated using the Expansion Index (EI) test (ASTM D 4829).

F. Compaction characteristics were evaluated using the "modified Proctor" (Maximum Density-Optimum Moisture) test (ASTM D 1557).

G. Thermal resistivity was tested on a selected soil sample (ASTM D5334/IEEE 422).

H. Soil chemistry tests consisted of pH, resistivity, conductivity, and a variety of cations and anions including soluble sulfate. Soil chemistry tests were performed by HDR-Schiff on a soil sample provided by Earth Systems.

Refer to Appendix B for the laboratory test results. Presentation of the test results provides only that information considered pertinent. References to ASTM and other test standards refer to the standard currently in effect.

GEOLOGIC SETTING

The project site is in the Antelope Valley near the southwestern limits of the Mojave Valley geomorphic province. The active San Andreas fault zone is one of the most significant geologic features of the area and is located approximately 10 miles southwest of the site. Other active or potentially active faults in the immediate vicinity of the site include the San Gabriel fault located approximately 30 miles to the southwest and the Clamshell-Sawpit fault located approximately 32 miles to the south.

The site does not fall within a currently designated California Geological Survey (CGS) Earthquake Fault Rupture Hazard ("Alquist-Priolo") Zone (Hart and Bryant, 1999), nor within a liquefaction hazard zone or slope hazard zone as currently identified by CDMG on the Seismic Hazard Zones Map for the Alpine Butte Quadrangle dated 2005.

SUBSURFACE CONDITIONS

Artificial fill (af) soils were encountered in the borings on the proposed substation parcel but not at the two proposed solar farm parcels. The depth of fill observed ranged from approximately four to

five feet and were found to consist predominantly of loose to medium dense silty sand (SM and SP-SM soil types based upon the Unified Soil Classification System).

Native soils comprised of alluvium (Qa) were found to consist predominantly of stiff to hard sandy silt and silty clay, and loose to dense to silty sand, clayey sand, and poorly graded fine sand (ML, CL, SM, SC, SP, SP-SM, and SW-SM soil types). The logs of the test borings in Appendix A contain more detailed descriptions of the soils encountered.

Based upon results of the consolidation tests (ASTM D 2435) conducted for this investigation, the site soils are considered to have low potential for hydroconsolidation. (Percent hydroconsolidation from the lab tests ranged from 0.2 to 1.1 percent).

Based upon results of the expansion index (EI) tests (ASTM D 4829) conducted for this investigation, the upper on-site soils are considered to have a very low expansion potential. Refer to the Expansive Soil section in the Recommendations for explanations and recommendations for dealing with expansive soils.

Per ASCE 7-16 Table 20.3-1, the site should be classified as a stiff soil profile (Site Class D).

No free groundwater was encountered to the maximum depth explored of 20 feet on the subject properties. Nor was groundwater encountered in a 50-foot deep boring at the northwest corner of 90th Street East and Avenue J East (Bruin, 2023).

The nearest well monitored by the Los Angeles County Department of Public Works (LACDPW) is well #10120 (located approximately three quarters of a mile northwest of the proposed BESS and substation parcels, approximately one and a half mile northwest of the proposed north solar farm and two and a half miles northwest of the proposed south solar farm at a ground elevation of 2,435 feet above mean sea level). Groundwater was most recently measured in that well at a depth of 280 feet (February 6, 2025). The highest groundwater level was measured in this well at a depth of 248 feet (November 4, 1997). Fluctuations in groundwater levels may occur due to variations in rainfall, regional climate, and other factors.

DISCUSSION AND CONCLUSIONS

Seismic Design Parameters

The 2023 Los Angeles County Building Code (LACBC) or 2023 Los Angeles County Building Code (LACBC) will be applicable to the proposed project. The building code includes several seismic design parameters that are influenced by the geographic site location with respect to active and potentially active faults, and with respect to subsurface soil or rock conditions. The seismic design parameters presented herein were calculated by determining the jobsite coordinates and entering them into the Structural Engineers Association of California (SEAOC), Seismic Design Maps Calculator. The current ground motion calculator determines ground motions in accordance with procedures outlined in the

2022 CBC and ASCE 7-16. These parameters are appropriate for a 2 percent probability of exceedance in 50 years, are included in Appendix C and summarized in the table below.

Summary of Seismic Parameters

	Substation and BESS	**North Solar Farm**	**South Solar Farm**
Site Class (ASCE 7-16 – Table 20.3-1)	D	D	D
Risk Category (CBC 2022 – Table 1604.5)	II	II	II
Maximum Considered Earthquake (MCE) Ground Motion			
Site Modified Peak Ground Acceleration - PGA_M	0.55g	0.55g	0.55g
Spectral Response Acceleration, Short Period – S_s	1.308g	1.374g	1.421g
Spectral Response Acceleration at 1 sec. – S_1	0.529g	0.556g	0.575g
Site Coefficient – F_a	1.0	1.0	1.0
Site Coefficient – F_v	1.7	1.7	1.7
Site-Modified Spectral Response Acceleration, Short Period – S_{MS}	1.308g	1.374g	1.421
Site-Modified Spectral Response Acceleration at 1 sec. – S_{M1}	0.899g	0.945g	0.978g
Design Earthquake Ground Motion			
Short Period Spectral Response – S_{DS}	0.872g	0.916g	0.947g
One Second Spectral Response – S_{D1}	0.600g	0.630g	0.652g

Reference: SEAOC, 2025,
Substation & Bess - Latitude: 34.69088077 degrees, Longitude: -117.96897818 degrees
North Solar Farm - Latitude: 34.67362171 degrees, Longitude: -117.96544148 degrees
South Solar Farm - Latitude: 34.66260930 degrees, Longitude: -117.96569897 degrees

The seismic factor S_1 is greater than 0.2g and the Site Class is D. Therefore, a site-specific ground motion hazard analysis may be required. Per ASCE 7-16, Table 11.4-2, 1.7 has been used for F_v in the summary above since S_1 is greater than 0.6. The project structural engineer shall determine if an exemption can be applied in accordance with ASCE 7-16 Section 11.4.8. If it is determined that a site-specific ground motion hazard analysis is necessary, Earth Systems can provide that analysis under a separate cover.

Hydroconsolidation

Hydroconsolidation, also sometimes known as hydrocollapse, soil collapse or hydrocompaction, is common in some loose, dry, sometime lightly cemented, sandy desert soils. It occurs when the loose dry soil becomes saturated for any reason (heavy rain, leaking pipes, waterline breaks, or similar reasons) which causes the loose soil to settle or compact rapidly.

Selected soil samples from all three of the project parcels investigated, were tested for hydroconsolidation as part of the laboratory consolidation tests. Hydroconsolidation ranged from 0.2% to 1.1%. Hydroconsolidation potential less than 2 percent is commonly accepted and mitigation only required for cases where it exceeds 2 percent. The potential for hydroconsolidation is considered low at this site. However, as a conservative measure, saturation and proof-rolling of subgrade prior to placing fill is recommended.

Electrical Resistivity On-Site Testing

Earth Systems subcontracted UCORR to complete soil electrical resistivity testing on the sites using the Wenner four-pin method (ASTM G57). Four sets of two roughly perpendicular transects were completed: one set at the BESS parcel, one set at the Substation parcel, one set at the North Solar farm parcel, and one set at the South Solar Farm parcel. The length of each transect was limited by the existing site topography and vegetation. The test report with detailed test results is included in Appendix D. The in-place resistivities ranged as summarized below.

Area	APN	Average In-Place Resistivity (ohm-cm)
Substation Parcel	3376-011-035	2,873 – 62,337
BESS Parcel	3376-006-012	6,128 – 94,779
North Solar Farm	3378-003-001	1,532 – 11,299
South Solar Farm	3378-004-008	1,724 – 12,496

Corrosion and Chemical Lab Testing

Earth Systems subcontracted HDR to conduct laboratory chemical testing related to corrosion and degradation of concrete. A suite of tests was conducted on a soil sample from each of the twelve borings. A summary report of the test results are included in Appendix B. The primary concerns are typically electrical resistivity for corrosion of buried ferrous materials and sulfate content for sulfate attack on concrete foundations and slabs. Resistivity and sulfate test results are summarized in the following table:

Area	Borings	Saturated Resistivity (ohm-cm)	Corrosion Potential	Sulfate Content (mg/kg)	Sulfate Exposure Category
Substation Parcel	B1 – B4	2,440 – 30,000	Moderate to Mild	6 - 27	S0 (<0.1%)
North Solar Farm	B5 – B8	3,560 – 16,000	Moderate to Mild	9 - 72	S0 (<0.1%)
South Solar Farm	B9 – B12	2,800 – 12,400	Moderate to Mild	13 - 99	S0 (<0.1%)

Corrosion potential criteria from County of Los Angeles
Sulfate exposure class from Table 19.3.1.1 of American Concrete Institute (ACI) 318

Liquefaction

Liquefaction is defined as a loss of strength of saturated cohesionless soil caused by seismic shaking. Soil types most susceptible to liquefaction are loose, saturated silty to clean fine sands. The project

sites are not located within a defined liquefaction hazard zone as shown on the Alpine Butte Quadrangle (CDMG, 2005).

Based on the soil borings and the regional groundwater data provided by the LACDPW, groundwater beneath these sites is more than 50 feet below the existing ground surface. It is generally accepted that liquefaction of soils more than 50 feet below grade has a minimal impact on structures at the surface. Therefore, because of the lack of near-surface groundwater beneath the sites, the potential for liquefaction-induced damage to structures at these sites is considered negligible.

Slope Stability

Slope stability calculations were not performed because of anticipated minimal slope heights. If slope heights exceed 5 feet or exceed a gradient of two horizontal to one vertical (2H:1V), engineering calculations should be performed to substantiate the stability of cut or fill slopes. Fill slopes should be constructed to a gradient not exceeding 2H:1V and should be overfilled and trimmed back to compacted material.

Los Angeles County Section 111 Statement

Based on the findings summarized in this report and provided the recommendations in this report are incorporated into the project, it is Earth Systems' opinion that the proposed solar energy generation and storage facility on the subject properties will not be subject to a geologic hazard from landslides, settlement, or slippage beyond that described herein. It is also Earth Systems' opinion that the proposed structure and associated grading will not adversely affect the geologic stability of the site or adjacent properties provided our recommendations are followed. Test findings and statements of professional opinions do not constitute a guarantee or warranty, expressed or implied.

Site Grading

Substation Parcel and BESS Parcel. As mentioned in the Subsurface Conditions Section, undocumented artificial fill soils are present within the proposed substation parcel to depths of approximately two to three feet below existing grade. Artificial fill may also be present within the proposed BESS parcel, but that must be checked by future subsurface investigations. To provide more firm uniform bearing for the proposed structure foundations and slab-on-grade construction in the substation parcel and BESS parcel, it is recommended that the upper three feet of near surface soils with a minimum of one-foot below proposed foundations be removed and recompacted in those areas. All existing fill should be removed and the bottom of all remedial excavation bottoms should expose firm native soil. As discussed above, the subgrade should be saturated and proof-rolled prior to placing any fill or shallow foundations as a conservative measure to reduce potential for hydroconsolidation. Refer to Section A of the Recommendations of this report for more detailed discussions and recommendations regarding site preparation.

North and South Solar Farm Parcels. Some grading of the solar farm parcels will be necessary to control and direct drainage, but remedial grading (soil removal and recompaction) is only

recommended if the proposed PV solar panels will be supported by conventional shallow footings. If the PV solar panels will be supported on conventional shallow footings, the upper three feet of near surface soils with a minimum of one-foot below proposed foundations should be removed and recompacted in those areas. A minimum of one foot of soil should be removed and recompacted beneath the proposed gravel roads. If the PV panels are supported by short driven piles or some other deep foundation method, remedial grading will only be necessary for the proposed gravel roads in those areas. As discussed above, the subgrade should be saturated and proof-rolled prior to placing any fill or shallow foundations as a conservative measure to reduce potential for hydroconsolidation. Refer to Section A of the Recommendations of this report for more detailed discussions and recommendations regarding site preparation.

Soil Compaction

Consideration should be given to the type of equipment to be used for compaction at the sites. Different types of equipment are more effective with some soil types than with others. Failure to provide the most appropriate equipment could result in an inability to achieve the required degree of relative compaction, disturbance or displacement of subsequent and adjacent layers of fill, and/or the potential cost of removal of inadequately compacted fill that has been placed and subsequent delay in the grading progress.

Conventional compaction equipment (bulldozers, self-propelled or static or dynamic sheepsfoot compaction rollers, heavy rubber-tired construction equipment, etc.) has a limited ability to consolidate layers of fill to the required density. Typically, loose layer thickness should not exceed 6-8 inches for heavy construction equipment and 2-4 inches for light manual equipment. Thicker layers of fill may be consolidated by utilizing specialized deep dynamic compaction; however, this requires detailed geotechnical evaluation prior to being used.

Cohesionless, non-plastic soils (such as the sands and silty sands that predominate at the subject site) typically are best compacted using a wide, smooth, heavy static device (roller, wheels, tires etc.) or with the addition of vibration to these types of equipment. Narrow profile wheels, tires, etc., and high point load equipment typically will not perform as efficiently and will cause displacement and loosening of the adjacent soil.

Fine grained soils (such as the sandy silts found at some parts of the site) typically should not be subjected to vibration or heavy widely distributed loads (such as smooth rollers or wide rubber-tired construction equipment) during the compaction process, as this will cause an increase in the soil pore pressure resulting in ‘pumping’ or failure to consolidate the soil particles by expelling water and air. These soil types are best compacted by using a ‘kneading’ action (such as a ‘sheepsfoot’ compactor) or impact from a sharp blow on a small area (such as a dynamic or high-speed tamping foot).

Foundation Design

Conventional Shallow Footings. If the preliminary recommendations herein for site preparation and grading are followed, conventional shallow continuous foundations (strip footings) or shallow isolated pad foundations may be used to support the various proposed electrical substation structures, the proposed BESS battery units, and the proposed PV solar panels at the solar farms. Conventional spread footings at should bear in compacted soil prepared as recommended herein. Refer to Recommendations Section C of this report for more detailed discussions and recommendations regarding conventional foundation design.

Any retaining walls may be supported on conventional continuous spread footings bearing in either recompacted fill or firm native soil.

Deep Foundations. Deep foundations will likely be necessary for electrical power transmission towers or other tall structures associated with the electrical substations. Also, it is understood that foundations other than conventional shallow strip footings are sometimes used to support BESS battery units and may be standard practice for some designers. Short driven steel piles, mats, and simple skids have been used to support BESS battery units.

Deep foundations may consist of either driven steel or concrete piles or cast-in-place reinforced concrete piers also sometimes referred to as “caissons” or cast-in-drilled-hole (CDIH) piles. Refer to Sections D through F of the Recommendations section of this report for more detailed discussions and recommendations regarding pier or pile foundation design and construction.

Mat Foundations. Mat foundations may be considered as a shallow foundation alternative to conventional strip footings for the BESS battery units or for various electrical equipment as appropriate. Refer to Section G of the Recommendations section of this report for more detailed discussions and recommendations regarding mat foundation design and construction.

Settlements

If the preliminary recommendations for foundation design and construction are followed, settlement of the proposed BESS battery units and electrical substation structures should not exceed approximately three quarters of an inch (3/4”). Differential settlement of BESS battery units approximately 30 feet long may experience differential settlement of about half the total settlement from end to end. Differential settlement of the water tanks and other heavy structures at this is likely to be approximately half of the total settlement. Differential settlement of a half inch (1/2”) between neighboring footings of varying loads, depths or sizes for other site structures may be expected. Settlements should be reevaluated once the foundation depths, configurations, and loads are more firmly established.

Stormwater Infiltration

On June 16, 2025, the percolation rate of near-surface soil was evaluated in one selected boring on each of the three subject parcels. The percolation testing was conducted in general conformance with the Small Diameter Boring Infiltration Test Procedure (LACDPW-GMED, 2021).

After drilling, logging, and sampling were complete, the three borings selected for percolation testing were backfilled with tailings to a depth of 5 feet below existing grade. A perforated plastic pipe wrapped in filter sock was installed, and the annular space around the pipe was backfilled with clean gravel. The holes were then filled with clean water to pre-soak the holes prior to testing.

The holes were later refilled to the specified depth ("cap depth" of one foot below grade) with clean water to begin the test. During the percolation test, successive readings of percolation flow were made over regular time intervals. The water level in the holes were first recorded and then the water level was raised back up to the initial depth. Readings continued until a stabilized flow was recorded. The results of the percolation testing and calculated design infiltration rates are summarized in the following table. Tabular results and plots of the percolation rate variation over time are presented in Appendix E.

The County of Los Angeles guidelines for Low Impact Development Stormwater Infiltration (LACDPW-GMED, 2021) require the following reduction factors be applied to the rate measured in the field:

Test method reduction factor, RFt, of 1 to 3. Use Rt = 2.0
Site variability reduction factor, RFv, of 1 to 3. Use Rv = 1.0
Long term siltation reduction factor, RFs, of 1 to 3. Use Rs = 1.0

The sum of the three factors (RF = 4.0) is applied as a safety factor to the rate measured in the field test to get the design infiltration rate.

Parcel	Test Boring	Test Depth (feet)	Measured Rate from Test (inches per hour)	Design Infiltration Rate (inches per hour)
Substation	B3	2.5 to 5.0	2.6	0.6
N. Solar Farm	B5	2.5 to 5.0	2.2	0.6
S. Solar Farm	B9	2.5 to 5.0	1.3	0.3

Each of these exceed the County requirement of an infiltration rate of at least 0.3 in/hr.

Response to LACDPW-GMED Review Letter

The Los Angeles Department of Public Works – Geotechnical and Materials Engineering Division (LACDPW-GMED) reviewed a concept design for the proposed project and issued a review letter dated June 4, 2024 (see Appendix F). The review comments are itemized below along with responses for each.

Comment S1: *A search of our records indicates a potential for soils subject to hydroconsolidation at the subject site. Therefore, provide a report with sufficient subsurface exploration data, pertinent test results, and analyses that address and evaluate the site and the proposed development. The report must comply with the provisions of the County of*

Los Angeles Department of Public Works Manual for Preparation of Geotechnical Reports.
The manual is available at:
Http://dpw.lacounth.gov/gmed/permits/docs/manual.pdf.

Response: Laboratory consolidation tests on intact samples indicate hydroconsolidation potential of 0.2% to 1.1%, which is well below commonly accepted limit of 2%. Nevertheless, as a conservative measure to reduced hydroconsolidation potential, subgrades should be saturated and proof-rolled prior to placing any fill or foundation.

Comment S2: *Provide chemical test results (sulfate, resistivity, etc.) for the on-site soils to address the presence of chemicals deleterious to construction materials and utility lines. The chemical tests must be in accordance with California Test Methods, Department of Transportation, or equivalent (aqueous solution tests, such as EPA Tests or similar methods are not acceptable for determination or resistivity). Resistivity tests must be performed on soils in a saturated condition. Recommend mitigation as necessary.*

Response: Sulfate content of near-surface site soils was found to be low, falling in the "S0" exposure category per ACI. electrical resistivity lab testing A summary of chemical laboratory test results and electrical resistivity laboratory tests are included in Section L and the full laboratory test results are included in Attachment B in accordance with California Test Methods.

Comment S3: *Provide consolidation/hydrocollapse test results to evaluate the potential of hydrocollapse with the development site. Per County standards, consolidation test results measuring at or over 2 percent will require remedial grading recommendations and/or mitigation measures to address potential hydroconsolidation settlement.*

Response: Consolodiation/hydrocollapse tests were performed in select soil samples and the test results are included in Attachment B. The hydroconsolidation results do not exceed 2%, therefore remedial grading for hydrocollapse is not considered necessary although saturation and proof-rolling of subgrades is recommended.

Comment S4: *In accordance with Section 111 of the County of Los Angeles Building Code, the geotechnical consultant(s) must make a finding regarding the safety of the site of the proposed work against hazard from landslide, settlement or slippage and a finding regarding the effect that the proposed work will have on the geotechnical stability of the area outside of the proposed work. The finding must be substantiated by appropriate data and analyses and be included in the geotechnical report.*

Response: The Los Angeles County Section 111 Statement is included above under Discussion and Conclusions.

Comment S5: *Please submit documents in response to the review using the EPIC-LA system at the following URL: https://epicla.lacounty.gov/SelfService/#/home. The documents must be submitted to the EPIC-LA plan case number shown at the upper left corner of the first page of this review sheet. Please contact GMED staff at (626) 458-4925 if documents cannot be uploaded to the plan case.*

Response: The project owner will submit this geotechnical report.

Comment S6: *Include a copy of this review sheet with your response.*

Response: A copy of the review sheet can be found in Appendix F.

RECOMMENDATIONS

Based upon field exploration, laboratory testing, interpretation of the data, and experience, the following recommendations should be incorporated into site preparation, design, and construction of the proposed solar energy and storage project.

A. Site Preparation

1. All vegetation, uncompacted fill, pavements, abandoned underground utilities, and other debris should be removed from the proposed grading areas. Underground utilities (water, sewer, storm drain, electric, gas, cable, etc.) are anticipated within or adjacent to the proposed construction area. These utilities should be identified and relocated as required prior to performing excavations for any site grading or foundation excavations. All strippings and debris should be removed from the site to preclude their incorporation in site fill or remedial excavation backfill. Depressions resulting from such removals should have debris and loose soils removed and filled with suitable soils placed as recommended below.

2. Any seepage pits (i.e. cesspools), underground tanks, or other similar substructures should be removed in their entirety including any liquids or sediment remaining at the bottom of the pits or tanks. Any brick, concrete or steel lining should be completely removed. The void resulting from removal of the pits or tanks should be backfilled with suitable soils placed as recommended below. This may require ramping and/or laying back side slopes to an angle to allow safe entry of personnel and equipment. Alternatively, deep shaft seepage pit excavations may be backfilled with a low-cement concrete slurry mix to within 5 feet of proposed final grade or proposed footing elevations. The final 5 feet should consist of compacted engineered fill as described below.

3. To minimize potential settlement problems associated with structures supported on a non-uniform thickness of compacted fill, the geotechnical engineers should be consulted for site grading recommendations relative to backfilling large and/or deep depressions resulting from removals under Item 1.

4. To provide more firm uniform bearing conditions for the proposed structures to be supported by shallow foundations and for slab-on-grade construction, Earth Systems recommends the following:

   a. Native soils and existing artificial fill beneath the proposed construction areas, should be excavated a minimum of 1 foot below the bottom of proposed footings, 3 feet below existing grade, or 3 feet below pad elevation, or through the existing fill, **whichever is deeper**. Remedial excavations should extend laterally, beyond the footings, to a minimum distance equal to the depth of fill below the bottom of footings, or a minimum of 3 feet, whichever is greater. The base of the remedial excavation across the building pad should be a level elevation. Foundation plans and details should be checked carefully during grading to establish the actual bottom of footing elevations in the field.

   b. All exposed ground surfaces (subgrades) at the base of the remedial excavations should be firm, unyielding, and not excessively wet or excessively dry. If any of these conditions are not acceptable at the minimum recommended over-excavation depth, additional excavation will be required until suitable subgrade conditions are found. The density of the exposed ground may be tested and the "in-place dry density" ("IPD") of either 100 pounds per cubic foot (pcf) or 85% relative compaction may be used as criteria for acceptable subgrade.

   c. The bottom of the remedial excavation should then be scarified (ripped) 6 inches, saturated to reduce hydroconsolidation, and proof-rolled.

   d. The excavated soils may be reused to backfill the remedial excavations provided they are processed to remove any deleterious materials, debris, particles greater than 6 inches maximum dimension, and are properly moisture conditioned and compacted. During replacement of the excavated soils in the remedial excavations, and recompaction of the scarified soils, the soils should be moisture conditioned to near optimum moisture content and be uniformly compacted to at least 90% of the maximum dry density as determined by ASTM D 1557 test procedures using mechanical compaction equipment. To aid in the compaction operation, fill should be placed in lifts not exceeding 6 inches compacted thickness**. Compaction should be verified by testing.**

   e. The geotechnical consultant's representative should review the site grading prior to scarification of the bottom of the remedial excavation. Local variations in soil conditions may warrant increasing the depth of remedial excavation. Any deeper areas of loose soils should be removed and be replaced as compacted, engineered fill.

5. Soils beneath the proposed gravel roads, including a minimum lateral distance of at least 1 foot beyond road edges, should be excavated a minimum of 12 inches below the existing grade or finished subgrade, or through the existing fill**, whichever is deeper**. The bottom of the remedial excavation should then be scarified (ripped) 6 inches. The scarified and excavated soils should be moisture conditioned to near optimum moisture content and be uniformly compacted to at least 90% of the maximum dry density using mechanical compaction equipment. **Compaction should be verified by testing.**

6. Import soils should be equal to, or better than, the on-site soils in strength, expansion, compressibility, and soil chemistry characteristics. In general, import material should be free of organic matter and deleterious substances, have 100% passing a 2-inch sieve and an Expansion Index less than 20. Import soils can be evaluated prior to their use but will not be prequalified by the geotechnical consultant. Approval of import soils will be given only after the material is on the project, either in-place, or stockpiled in adequate quantity to complete the project.

7. Suitable imported fill soils should be moisture conditioned to near optimum moisture content and be uniformly compacted to at least 90% of the maximum dry density as determined by ASTM D 1557 test procedures using mechanical compaction equipment. To aid in the compaction operation, fill should be placed in lifts not exceeding six inches compacted thickness.

8. Backfill around or adjacent to confined areas (i.e. interior utility trench excavations, etc.) may be performed with a lean sand/cement slurry (aka "flowable fill" or “controlled low strength material -CLSM”). The fluidity and lift placement thickness of any such material should be controlled to prevent "floating" of any "submerged" structure.

9. Shrinkage because of excavation and compaction of the upper site soils is expected to range between approximately 8% and 20% of any excavated or scarified site soils. This estimate is based upon compactive effort needed to produce an average degree of relative compaction of approximately 92 percent and may vary depending on contractor methods. Losses from site clearing and grubbing operations may affect quantity calculations and should also be considered. The grading contractor should verify shrinkage and earthwork yardage estimates.

10. Final site grades should be designed and constructed so that all water is diverted away from all structures and not allowed to pond. Drainage devices should be constructed to divert drainage from the project site.

11. It is recommended that Earth Systems be retained to provide geotechnical engineering services during the grading, excavation, and foundation phases of the project. This continuity of services will allow for the geotechnical review of the design concepts and specifications

relative to the recommendations of this report and will more readily allow for design changes if subsurface conditions differ from those currently anticipated.

B. Excavations

1. Standard construction techniques should be sufficient for temporary site excavations. All excavations should be made in accordance with applicable regulations (including CAL/OSHA). Project safety is the responsibility of the contractor and the owner. Earth Systems will not be responsible for project safety.

2. Unshored, unsurcharged, temporary excavations may be cut vertically to a maximum height of no more than 5 feet. Excavations extending higher than 5 vertical feet should be sloped back above the 5-foot vertical cut to at least a one and a half horizontal to one vertical (1.5H:1V) slope or flatter. If excavations dry out, sloughing will occur. No excavation should be made within a 1H:1V (45-degree) line projected outward from the toe of any existing footing or structure.

3. During the time excavations are open, no heavy grading equipment or other surcharge loads (i.e. excavation spoils) should be allowed within a horizontal distance from the top of any slope equal to the depth of the excavation (both distances measured from the top of the excavation slope).

4. Adequate measures should be taken to protect any structural foundations, existing street pavements, or utilities adjacent to any excavations.

C. Conventional Shallow Foundations

Any building or structure constructed on this site should be designed to at least the minimum standards of the 2023 edition of the LACBC. Relevant seismic design parameters are presented above.

1. Foundations for the proposed structures should be supported by a minimum 1-foot thickness of compacted soils prepared as recommended in Section A of this report.

2. Conventional shallow continuous (strip) foundations or isolated pad (column) foundations may be used to support the various proposed structures provided the foundations are embedded into compacted fill prepared as recommended in this report. Strip footings should be stepped to maintain horizontal bottoms along sloping ground.

3. Excavations for foundations should be cleaned of all loose or unsuitable soils and debris prior to placement of concrete. Soil generated from the foundation excavations should not be placed below the floor slab unless properly moisture conditioned and compacted, and only after the area to receive fill has been properly prepared and approved.

4. Continuous (wall or strip) foundations for the proposed structures founded in the recommended compacted soil pad may be proportioned for the following values:

    a. Design Values: An allowable "net" bearing capacity of 3,000 pounds per square foot (psf) can be utilized for dead and sustained live loads. This value includes a minimum safety factor of 3.0 and may be increased by 1/3 when transient loads (such as wind and seismic forces) are included.

    b. Continuous foundations should be embedded a minimum of 18 inches below adjacent grade and be a minimum of 18 inches in width. Actual depth, width, and reinforcement requirements for continuous foundations depend on the Expansion Index of the bearing material, applicable sections of the governing building code, and requirements of the structural engineer.

    c. The allowable bearing capacity for continuous foundations may be increased by 400 psf for each additional 6 inches of foundation depth, and by 100 psf for each additional 6 inches of foundation width. The allowable bearing capacity should not exceed 5,000 psf to keep estimated settlements within allowable limits. Also, the edge pressure of any eccentrically loaded footing should not exceed this bearing value for either permanent or temporary loads.

5. Isolated pad (column) foundations for the proposed structures founded in the recommended compacted soil pad may be proportioned for the following values:

    a. Design Values: An allowable "net" bearing capacity of 3,500 psf can be utilized for dead and sustained live loads. This value includes a minimum safety factor of 3.0 and may be increased by 1/3 when transient loads (such as wind and seismic forces) are included.

    b. Isolated pad foundations should be embedded a minimum of 18 inches below adjacent grade and be a minimum of 2 feet in width. Actual depth, width, and reinforcement requirements will be dependent on the Expansion Index of the bearing material, applicable sections of the governing building code, and requirements of the structural engineer.

    c. The allowable bearing capacity for isolated pad foundations may be increased by 400 psf for each additional 6 inches of foundation depth, and by 100 psf for each additional 6 inches of foundation width. The allowable bearing capacity should not exceed 6,000 psf for isolated pad (column) foundations to keep estimated settlements within allowable limits. Also, the edge pressure of any eccentrically loaded footing should not exceed this bearing value for either permanent or temporary loads.

6. Resistance to lateral loading may be provided by friction acting along the foundation base. A coefficient of friction of 0.5 may be used for concrete foundations bearing in site soils

recompacted to at least 90% of the maximum dry density as determined by ASTM D 1557 test methods and may be used with dead loads. This value does not include a factor of safety.

7. Additional resistance to lateral loading may be provided by passive earth pressure acting against the sides of foundations or grade beams. Passive pressure may be taken as 400 Z psf, where Z = Depth (in feet) below the finished ground elevation. In passive pressure calculations, the upper one-foot of soil should be subtracted from the depth, Z, unless confined by pavement or slab. The maximum passive pressure used for design should not exceed 6,000 psf. These values does not include a factor of safety.

8. A minimum factor of safety of 1.5 should be applied to the coefficient of friction and the passive earth pressure when designing for sliding or overturning.

D. Pier/ CIDH Pile Design

A pier and grade-beam foundation system may be used to support electrical transmission towers, various other electrical equipment at the substation, or to support the proposed BESS energy storage units.

1. As a minimum, the new piers should be at least eighteen inches (18") in diameter and embedded a minimum of 10 feet into firm native soil. The geotechnical engineer should be consulted during pier installation to determine compliance with the geotechnical recommendations.

2. Piers may consist of drilled, reinforced cast-in-place concrete caissons (cast-in-drilled-hole "CIDH" piles). Piers may be drilled or hand-dug. Steel reinforcing may consist of "rebar cages" or structural steel sections.

3. Foundation piers should be designed as friction piles with no end bearing.

4. For vertical capacity, the piers may be proportioned using a skin friction (adhesion) value of 40+14Z pounds per square foot (psf) where Z = Depth (in feet) below the surface of the lowest adjacent final ground. For axial uplift loads, a skin friction (adhesion) value of 30+10Z psf may be used. The load capacities should be based upon skin friction with no end bearing. These allowable capacities include a safety factor of 3.0 and may be increased by one-third when considering transient loads such as wind or seismic forces.

5. Reduction in axial capacity due to group effects should be considered for piers spaced at 3 diameters on-center or closer.

6. These allowable skin friction values provided above are based upon available subsurface field data and on Earth Systems' experience on similar projects. The compressive and tensile strength of new pier designs should be checked to verify the structural capacity of the piers. Reinforcement of piers should be specified by the structural engineer. The specific method

of pier installation will affect the performance of the piers. Earth Systems recommends a meeting with the design team and contractor to verify that the specific method of pier installation can provide the anticipated load supporting capacity.

7. Lateral (horizontal) loads may be resisted by passive resistance of the native soil against the piers. An equivalent fluid weight (EFW) of 400 psf per foot of penetration in firm native soil may be used for lateral load design. The resisting pressure provided is an ultimate value. The maximum passive pressure used for design should not exceed 6,000 psf.

8. For piers spaced at least three diameters apart, an effective width of three times the actual pier diameter may be used for passive pressure calculations (e.g. "flagpole" design).

9. Assuming 24-inch diameter piers of reinforced concrete that are fixed against rotation at the head, the "point of fixity" was estimated to be located at least 8 feet below the [final ground elevation] based on commonly accepted engineering procedures (Lee, 1968).

10. It is the structural engineer's responsibility to design the reinforcement for the piers to sustain the imposed axial and lateral loading.

11. All piers should be tied together laterally (in both directions) at the top with grade beams. The size, spacing, and reinforcing of grade beams should be determined by the structural engineer.

E. Pier/ CIDH Pile Installation

The following recommendations are based upon Earth Systems' analyses of the geotechnical conditions at the project sites and Earth Systems' understanding of the project. The project civil and structural engineers may require additional installation criteria based on other factors (type of pile, structural design, method of construction, etc.).

1. The geotechnical engineers, or their representatives, should be present during excavation and installation of all piers to observe subsurface conditions, and to document penetration into load supporting materials (i.e. firm native soil).

2. Since the piers are designed to rely on intimate frictional contact with the soil, any casing (if used) should be removed during placement of concrete. Slick or smeared zones on the side-walls of the bore-holes should be removed and, bentonite slurry and similar stabilizing fluids should not be used in bore holes without allowing for a reduction in pile load capacity.

3. The design mix for the concrete to be used in the pier construction should be established and approved by the structural engineer prior to the time of construction. Compression tests should be performed on samples of the concrete in accordance with applicable codes or requirements of the structural engineer. Inspection by qualified personnel should be provided during the concrete batching and during placement of pier steel and concrete.

4. Piers located within three pier diameters of each other should be drilled and filled alternately so that concrete is permitted to set before drilling an adjacent pier. The time for initial set of the concrete will depend on the design mix and should be determined in the field at the time of construction. No fewer than 4 hours should be allowed for the concrete to set before drilling for an adjacent pier. No pier hole should be left open overnight. Since the exact pier installation process is not known at this time, it is important for Earth Systems to be consulted relative to recommendations for placement criteria to aid in maintaining the integrity of the piers during placement.

5. The bottoms of pier excavations should be relatively clean of loose soils and debris prior to placement of concrete. Any water encountered should be pumped from the boreholes prior to the placement of concrete, or placement of concrete should be by use of a tremie or pump line such that the water is displaced during the concrete placement. The volume of concrete placed should be measured to compare with the design volume.

6. Installed piers should not be more than two percent (2%) from the plumb position.

F. Driven Piles

1. Driven piles may consist of structural steel sections or precast reinforced concrete piles.

2. Driven piles designed as friction piles should be embedded a minimum of 8 feet into firm native soil unless field load testing (axial and lateral) justify a lesser depth. The actual total pile length and embedment may vary depending upon the requirements of the structural engineer and the results of the pile driving analysis (i.e. evaluation of pile driving blow counts).

3. The design load capacities for driven pile foundations should be based on skin friction only with no end (tip) bearing.

4. In general, the pile driving criteria provided by the Engineering News Record (ENR) formula (Public Works, 2006) should be satisfied for the last one foot of pile driving. If the required driving resistance is not achieved at the design depth, the pile may be allowed to "set" overnight and then driven an additional foot. If the required driving resistance is still not achieved, additional piles may be installed in accordance with the recommendations of the geotechnical and structural engineers.

5. For vertical (axial compression) capacity of driven piles designed as friction piles, the piles may be proportioned using a skin friction (adhesion) value of 40+24Z pounds per square foot (psf) where Z = Depth (in feet) below the surface of the lowest adjacent final ground. For axial uplift loads, a skin friction (adhesion) value of 30+18Z psf may be used. The load capacities should be based upon skin friction with no end bearing. These allowable capacities

include a safety factor of 3.0 and may be increased by one-third when considering transient loads such as wind or seismic forces.

6. Reduction in axial capacity due to group effects should be considered for piles spaced at 3 diameters on-center or closer.

7. Lateral (horizontal) loads may be resisted by passive pressure of the soil against the sides of the driven piles. An equivalent fluid weight (EFW) of 400 psf per foot of penetration in firm native soil may be used for lateral load design. The resisting pressure provided is an ultimate value; an appropriate safety factor should be used for design (minimum of 1.5 recommended). The maximum passive pressure used for design should not exceed 6,000 psf.

8. For driven piles spaced at least three diameters apart, an effective width of three times the actual pile diameter may be used for passive pressure calculations.

9. Assuming 12-inch diameter driven steel piles that are fixed against rotation at the head, the "point of fixity" was estimated to be located at least 4 feet below the final ground elevation based on commonly accepted engineering procedures (Lee, 1968).

10. These allowable load-carrying values provided above are based upon available subsurface field data and on Earth Systems' experience on similar projects. The compressive and tensile strength of new pier designs should be checked to verify the structural capacity of the piles. Reinforcement of piers should be specified by the structural engineer. The specific method of pile installation will affect the performance of the piles.

11. A select number of the piles may be required to be subjected to field load testing to verify the pile capacity and degree of settlement for the assigned capacity. The number of piles to be tested would need to be representative of the total of piles for the project.

12. Earth Systems recommends a meeting with the design team and contractor to verify that the specific method of pile installation can provide the anticipated load supporting capacity.

13. It is important that the project structural engineer be experienced in pile design and be familiar with seismic issues and structural issues related to pile driving. A meeting between the project structural engineer and Earth Systems is recommended to support understanding of the various geotechnical, structural and seismic issues.

14. The geotechnical engineers, or their representatives, should be present during the installation of all pile foundations. This is to observe pile driving conditions and help identify variations in soil conditions that may require additional evaluation of the foundation criteria in this report.

15. Driven piles in groups or rows should be driven alternately before driving an adjacent pile.

16. Driven piles should not be more than two percent (2%) from the plumb position.

G. Mat Foundations

Structural mat foundations may be considered for support of the BESS units or certain electrical equipment or the small buildings. Mat foundations for the proposed BESS battery units may be conventionally reinforced or may be post-tensioned slabs. Specific criteria for post-tensioned slab design can be provided if a post-tensioned system is selected.

1. Mat foundations for the various proposed structures should be supported by a minimum 1-foot thickness of compacted soils prepared as recommended in Section A of this report

2. An allowable "net" bearing capacity of 2,000 pounds per square foot (psf), for loads distributed over the full footprint of the foundation, may be utilized for dead and sustained live loads for design of the mat foundation. An allowable "net" bearing capacity of 5,000 psf may be used for thickened edges or other concentrated load areas. These values include a safety factor of at least 3.0 may be increased by 1/3 when considering transient loads such as earthquake or wind forces.

3. A modulus of subgrade reaction ("k_p" value) of 200 pounds per square inch per inch (psi/in for standard 30-inch square bearing plate) may be used provided the foundation subgrade soils are prepared/ compacted as recommended in Section A of this report. The subgrade reaction value may be scaled for the specific mat foundation size using the relationship ks = k_p $((B + 1)/2B)^2$ where B = the minimum width of the mat (smallest dimension) in feet.

4. Resistance to lateral loading may be provided by friction acting along the mat foundation base. A coefficient of friction of 0.5 may be used for concrete foundations on site soils recompacted to at least 90% of the maximum dry density as determined by ASTM D 1557 test methods and may be used with dead loads. This value does not include a factor of safety. An appropriate factor of safety should be used for design calculations (minimum of 1.5 recommended).

5. Additional resistance to lateral loading may be provided by passive earth pressure acting against the sides of foundations or grade beams. An equivalent fluid weight (EFW) of 400 Z psf may be used for passive pressure, where Z = Depth (in feet) below the finished ground elevation. In passive pressure calculations, the upper one-foot of soil should be subtracted from the depth, Z, unless confined by pavement or slab. The resisting pressure provided is an ultimate value. An appropriate factor of safety should be used for design calculations (minimum of 1.5 recommended).

6. The excavation for the mat foundation should be cleaned of all loose or unsuitable soils and debris prior to placement of concrete. Soil generated from the foundation excavations should not be placed below the mat slab unless properly moisture conditioned and compacted.

H. Slab-on-Grade Construction

1. Interior and exterior building concrete slab-on-grade construction should be supported by compacted soils prepared as recommended in Section A of this report.

2. A minimum of three inches (3") of compacted granular material (sand or gravel) should be placed over the finished compacted subgrade prior to placing concrete. This granular material should be moisture conditioned to near optimum moisture content and uniformly compacted using mechanical compaction equipment.

3. Reinforcement of slab-on-grade construction is contingent upon the structural engineer's recommendations and the Expansion Index of the supporting soils. Since the mixing of fill soils with native soils could change the Expansion Index, additional tests should be conducted during rough grading to determine the expansion characteristics of the new subgrade soils. It is recommended that all interior and exterior concrete slab-on-grade construction be reinforced with at least #4 bars on 16-inch centers, each way. **Reinforcement should be placed at mid-depth of the slab.** Additional reinforcement may be required once the final expansion potential of the subgrade soils is known. Actual reinforcement requirements will be dependent on the Expansion Index of the bearing soils (Refer to the Expansive Soil Section of the Recommendations), applicable sections of the governing building code, and requirements of the structural engineer.

4. Cracks that develop in concrete slab-on-grade should be filled and sealed prior to placing floor coverings. Frequent control joints should be incorporated into the slab construction, particularly in the areas of re-entrant corners, to help control cracking.

5. Special considerations are necessary in areas where moisture-sensitive floor coverings (e.g. carpet, linoleum tile, etc.) will be applied to the top of the slab. The design of the slab and underlying capillary water barrier and vapor retarder should be designed by a qualified waterproofing expert in accordance with ACI 302.2R-06.

6. A minimum 10-mil vapor retarder which conforms to ASTM E 1745 should be installed to minimize vapor transmission from the subgrade soil to interior slabs. The vapor retarder should be evaluated for holes and/or punctures, and the edges overlapped and taped, prior to placement of sand. Any holes or punctures observed should be properly repaired. The vapor retarder may be underlain and/or overlain by a minimum 2 inches of sand if recommended by the waterproofing expert per the criteria in ACI 302.2R-06. If sand is used, it should be lightly moistened and densified just prior to placing the concrete.

7. Relatively impervious floor coverings (i.e. vinyl, linoleum, etc.) that cover concrete slab-on-grade may block the passage of moisture vapor through the concrete slab, which could result in damage to the floor covering. It is suggested that after the concrete slab has sufficiently cured, the concrete slab surface be sealed with a commercial sealant prior to placing the floor covering. The compatibility, and recommendations for placing of the concrete sealer, mastic,

and floor covering should be verified by the floor covering manufacturer prior to sealing the concrete or placing of the floor covering.

8. It is recommended that the proposed exterior perimeter slabs (sidewalks, patios, walkways, etc.) be designed to be relatively independent of foundation stems (free-floating) to help mitigate cracking due to foundation settlement and/or expansion.

9. Subgrade soils for all concrete flatwork should be moisture conditioned to above optimum moisture content within 24 hours prior to placement of concrete. Measures should be taken to maintain optimum moisture until concrete is placed. Actual depths of pre-moistening will be dependent upon the actual Expansion Index of the subgrade soils.

I. Retaining Walls

1. The following static lateral earth pressures may be used in the design of any proposed retaining walls or similar structures on the subject sites:

	Equivalent Fluid Weight (pcf)	
	Driving Earth Pressure*	Resisting Earth Pressure*
Active, Well-drained level backfill soil	40	400***
Active, Well-drained soil, 2H:1V slope backfill	50	-
At-rest (restrained) wall, Level backfill soil	62**	-

* Equivalent fluid pressure (psf) per foot of soil height = equiv. fluid weight (pcf).

** For purposes of design, a wall is considered restrained if it is prevented from movement greater than 0.002H (H = height of wall in feet) at the top of the wall. According to the 2022 California Building Code foundation/retaining walls not more than 8 feet high laterally supported by flexible diaphragms (such as wood frame floors) need not be considered restrained walls.

*** Passive pressure. The upper 1-foot of soil should be neglected for passive pressure calculations unless confined by pavement or slab.

NOTE: The pressures recommended above were based on the assumption that the on-site soils will be used for wall backfill and will be compacted to approximately 90% of the maximum dry density. The use of select granular fill may reduce the recommended driving earth pressure.

2. According to the 2023 LACBC (1803.5.12) lateral earth pressures due to earthquakes must be considered for walls that retain more than 6 feet of earth on projects of Seismic Design Categories D, E and F. It is Earth Systems' understanding that any proposed retaining walls at the project will be less than 6 feet in height so design for lateral seismic earth loads should not be necessary.

3. Retaining walls should be supported by either conventional strip footings bearing in the recommended compacted soil pad per Section C above, or by piers embedded in firm native soil per Sections D and E, above.

4. The lateral earth pressure to be resisted by retaining should be increased to allow for surcharge loads. The surcharge considered should include the loads from any structures or vehicle traffic within a distance approximately equal to the height of the retaining wall.

5. Backfill immediately behind any retaining structure should be a free-draining granular material. Comments on the characteristics of import soils will be given by the geotechnical consultant after the material is on the project, either in place, or stockpiled in adequate quantities to complete the project.

6. Backfill behind retaining walls should be with soils that have been properly moisture conditioned to approximately optimum moisture content and uniformly compacted to at least 90% of the maximum dry density as determined by ASTM D 1557 test procedures using mechanical compaction equipment. To aid in the compaction operation, retaining wall backfill should be placed in lifts not exceeding 6 inches compacted thickness.

7. Compaction within the area of a 1H:1V slope from the bottom of wall excavations should be performed by hand operated compaction equipment. This is intended to reduce potential "locked-in" lateral pressures caused by compaction with heavy grading equipment.

8. Weepholes, backdrains, or an equivalent system of backfill drainage should be incorporated into the retaining wall design (see Plate VI for backdrain details). Waterproofing of retaining walls should be provided to help reduce the potential for efflorescent formation.

9. The final grade should be such that all water is diverted away from the retaining wall's foundation or backfill.

J. Expansive Soil

1. The Expansion Index (ASTM D 4829) of the subgrade soils should be considered when designing foundations. As stated in the Subsurface Conditions section, the on-site soils are considered to have a very low (laboratory expansion index (EI) value was 0). The foundation and slab-on-grade design recommendations provided in this report include generally used

guidelines in the Los Angeles County area for foundation design for soils with the indicated degree of expansiveness.

2. The design recommendations included in this report are minimums and comply with normally accepted geotechnical engineering practices. However, actual foundation and slab-on-grade construction reinforcement should be determined by the structural engineer based upon site specific conditions such as foundation loading and engineering characteristics of the subgrade soils.

3. If the site soils are thoroughly mixed and/or additional fill is added during site preparation, the expansion potential may change. The expansion potential of the new subgrade soils should be determined after the site preparation has been completed, and the final foundation design adjusted accordingly.

K. Utility Trenches

Standard construction techniques should be sufficient for site utility trench excavations. The surface of utility trench backfill frequently settles even when backfill is placed under optimum conditions. Any structural units or pavement placed over such backfill should be designed to accommodate such movements. Jetting of utility trench backfill is not recommended.

1. Backfill of utilities within rights-of-way should be placed in strict conformance with the requirements of the governing agency. However, as a minimum it is recommended that utility trench backfill should be moisture conditioned to near optimum moisture content and be uniformly compacted to at least 90% of the maximum dry density using mechanical compaction equipment. To aid in the compaction operation, utility trench backfill should be placed in lifts not exceeding 6 inches compacted thickness.

2. The provisions of this report relative to minimum compaction standards should govern utility trench backfill within the project boundary. In general, service lines extending inside the site should be backfilled with native soils that have been moisture conditioned and uniformly compacted to at least 90% of the maximum dry density using mechanical compaction equipment. To aid in the compaction operation, utility trench backfill should be placed in lifts not exceeding 6 inches in compacted thickness.

3. Utility trenches running parallel to footings should be located at least 5 feet outside the footing line, and above a 1:1 (horizontal to vertical) projection downward from the outside edge of the bottom of the footing.

4. Backfill operations should be reviewed and tested by the geotechnical engineer's representative to verify conformance with these recommendations.

L. Soil Chemical Testing

Selected samples of near-surface soils were tested for pH, resistivity and conductivity, as well as a variety of cations and anions including soluble sulfates. It should be noted that the sulfate contents all fall within the "S0" exposure class of Table 19.3.1.1 of ACI 318-14; therefore, special concrete designs will not be necessary for the measured sulfate contents.

The measured resistivity of the near-surface soil samples in a saturated condition ranged from as low as 2,440 ohm-cm to as high as 30,000 ohm-cm. Based on criteria established by the County of Los Angeles, the near-surface materials are "mildly corrosive" or "moderately corrosive" to ferrous metal (i.e. cast iron, etc.) pipes.

The corrosivity test results provided in Appendix B should be distributed to the design team for their interpretations pertaining to the corrosivity or reactivity of various construction materials (such as concrete and piping) with the soils. Tests should be conducted of the surface soils in the final graded pad to verify these interpretations, especially if the soils are mixed and additional fill is added during site preparation.

CLIENT OPTIONAL SERVICES

This report was based on the assumption that an adequate program of client consultation, construction monitoring, and testing will be performed during the final design and construction phases to check conformance with the recommendations of this report. Maintaining Earth Systems as the geotechnical engineering consultant from beginning to end of this project will help provide continuity of services. The recommended services include, but are not necessarily limited to, the following:

a. Consultation as required during the final design stages of the project.

b. Review of grading and/or building plans.

c. Observation and testing during site preparation, grading, placement of engineered fill, and backfill of utility trenches.

d. Consultation as required during construction.

LIMITATIONS AND UNIFORMITY OF CONDITIONS

The conclusions and recommendations submitted in this report relative to the proposed solar energy and storage facility are based, in part, upon the data obtained from site observations during the field exploration operations, and experience. The nature and extent of variations between the borings may not become evident until construction. If variations then appear evident, it will be necessary to re-evaluate the recommendations of this report.

In the event of any change in the assumed nature or design of the proposed project as planned, the conclusions and recommendations contained in this report shall not be considered valid unless the changes are reviewed, and the conclusions of this report modified or verified in writing. This report is issued with the understanding that it is the responsibility of Upstream Renewable Dev I LLC to ensure that the information and recommendations contained in this report are called to the attention of the architects and engineers for the project and incorporated into the plan. It is also the responsibility of Upstream Renewable Dev I LLC, and its representatives, to ensure that the necessary steps are taken to see that the contractor and subcontractors carry out such recommendations in the field.

As the geotechnical engineers for this project, Earth Systems strives to provide its services in accordance with generally accepted geotechnical engineering practices in this community at this time. No warranty or guarantee is expressed or implied. This report was prepared for the exclusive use of Upstream Renewable Dev I LLC for the purposes stated in this document for the referenced project only. No third party may use or rely on this report without the express written authorization of Earth Systems for such use or reliance.

It is recommended that Earth Systems be provided the opportunity for a general review of final design and specifications in order that earthwork and foundation recommendations may be properly interpreted and implemented in the design specifications. If Earth Systems is not accorded the privilege of making this recommended review, it can assume no responsibility for misinterpretation of the recommendations.

The scope of current services for this report did not include any environmental assessment or investigation for the presence or absence of wetlands, or hazardous or toxic materials in the soil, surface water, groundwater or air, on or below or around the sites.

The statements contained in this report are valid as of the present date. However, changes in the conditions of a property can occur with the passage of time, whether they be due to natural processes or to the works of man, on this or adjacent properties. In addition, changes in applicable or appropriate standards occur, whether they result from legislation or the broadening of knowledge. Accordingly, the conclusions of this report may be invalidated, wholly or partially, by changes outside of Earth Systems' control, and should therefore be reviewed after one year.

CLOSURE

Earth Systems trusts this report is sufficient at this time and meets your current needs. Earth Systems appreciates this opportunity to provide professional geotechnical engineering services for this project. If you have any questions regarding the information contained in this report, or if you require additional geotechnical engineering services, please contact the undersigned.

Respectfully submitted,
Earth Systems Pacific

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END OF TEXT

REFERENCES

PLATES

APPENDICES

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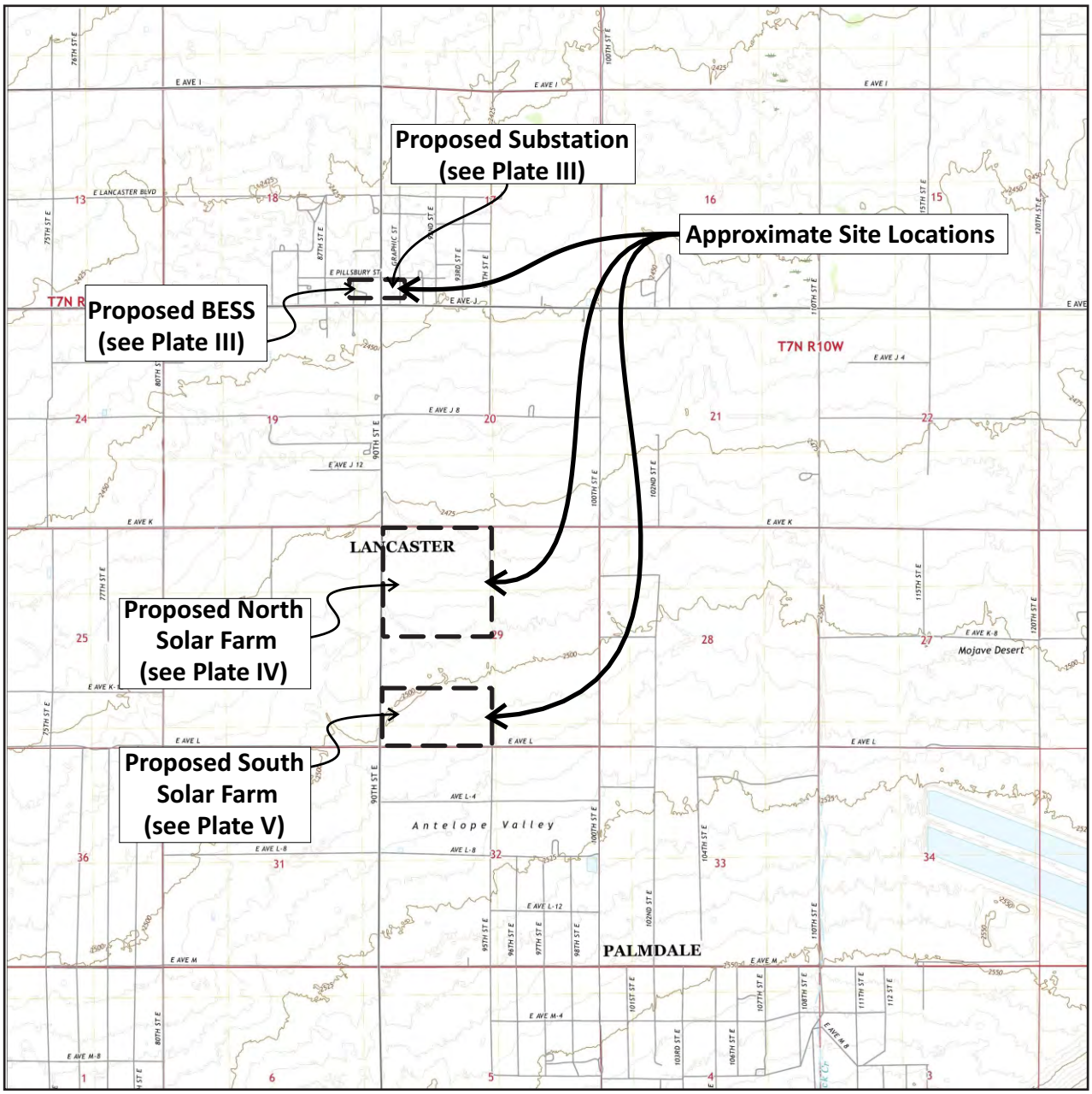
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PLATES

PLATE I - Site Location Map
PLATE II - Regional Geologic Map
PLATE III – Site Exploration – BESS and Substation
PLATE IV - Site Exploration – North Solar Farm
PLATE V - Site Exploration – South Solar Farm
PLATE VI - Retaining Wall Backdrain Details



Source: Alpine Butte 7.5 Minute Quadrangle (USGS, 2021).

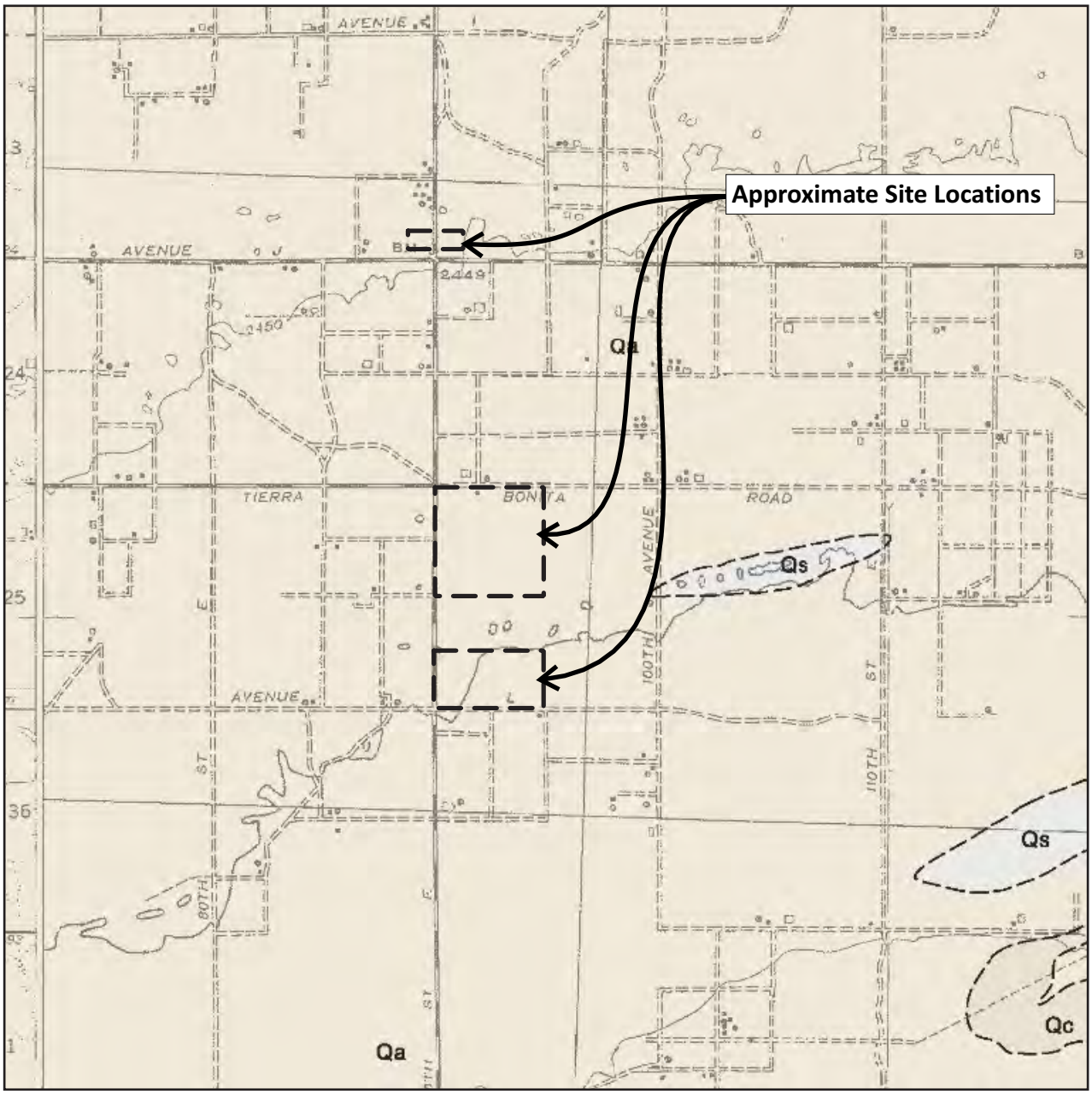
Plate I

SITE LOCATION MAP

PRONGHORN SOLAR & STORAGE
90TH STREET EAST
LANCASTER, CALIFORNIA

Earth Systems

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Source: Geologic Map of the Lancaster and Alpine Butte 15 Minute Quadrangle, DF-386 (Dibblee, 2008)

0 ft. ~ 2,000 ft. ~ 4,000 ft.

N

Plate II

LEGEND

Qa Quaternary Alluvium
Qs Quaternary Windblown Dune Sands
Qc Quaternary Clay and Silt/Mud Flats

Geologic contact

REGIONAL GEOLOGIC MAP

PRONGHORN SOLAR & STORAGE
90TH STREET EAST
LANCASTER, CALIFORNIA

Earth Systems

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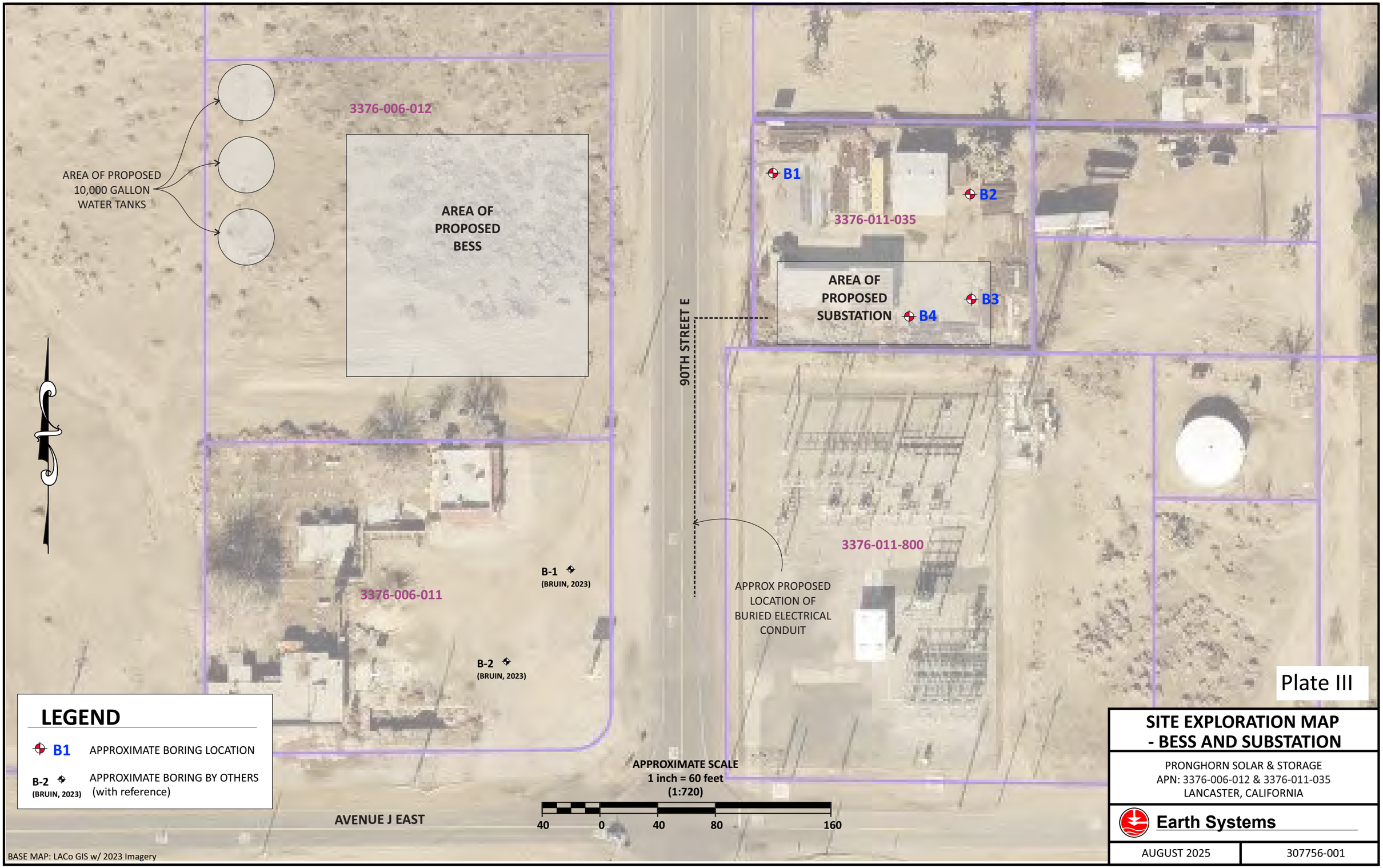


Plate III

SITE EXPLORATION MAP - BESS AND SUBSTATION

PRONGHORN SOLAR & STORAGE
APN: 3376-006-012 & 3376-011-035
LANCASTER, CALIFORNIA

Earth Systems

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E AVENUE K

90TH STREET E

B5

B6

AREA OF
PROPOSED
SOLAR FARM

B7

B8

2500

2500

2500

2500

LEGEND

B8 APPROXIMATE BORING LOCATION

APPROXIMATE SCALE
1 inch = 300 feet
(1:3,600)

200 0 200 400 800

BASE MAP: LACo GIS w/ 2023 Imagery

Plate IV

SITE EXPLORATION MAP - NORTH SOLAR FARM

PRONGHORN SOLAR & STORAGE
APN: 3378-003-001
LANCASTER, CALIFORNIA

Earth Systems

AUGUST 2025	307756-001

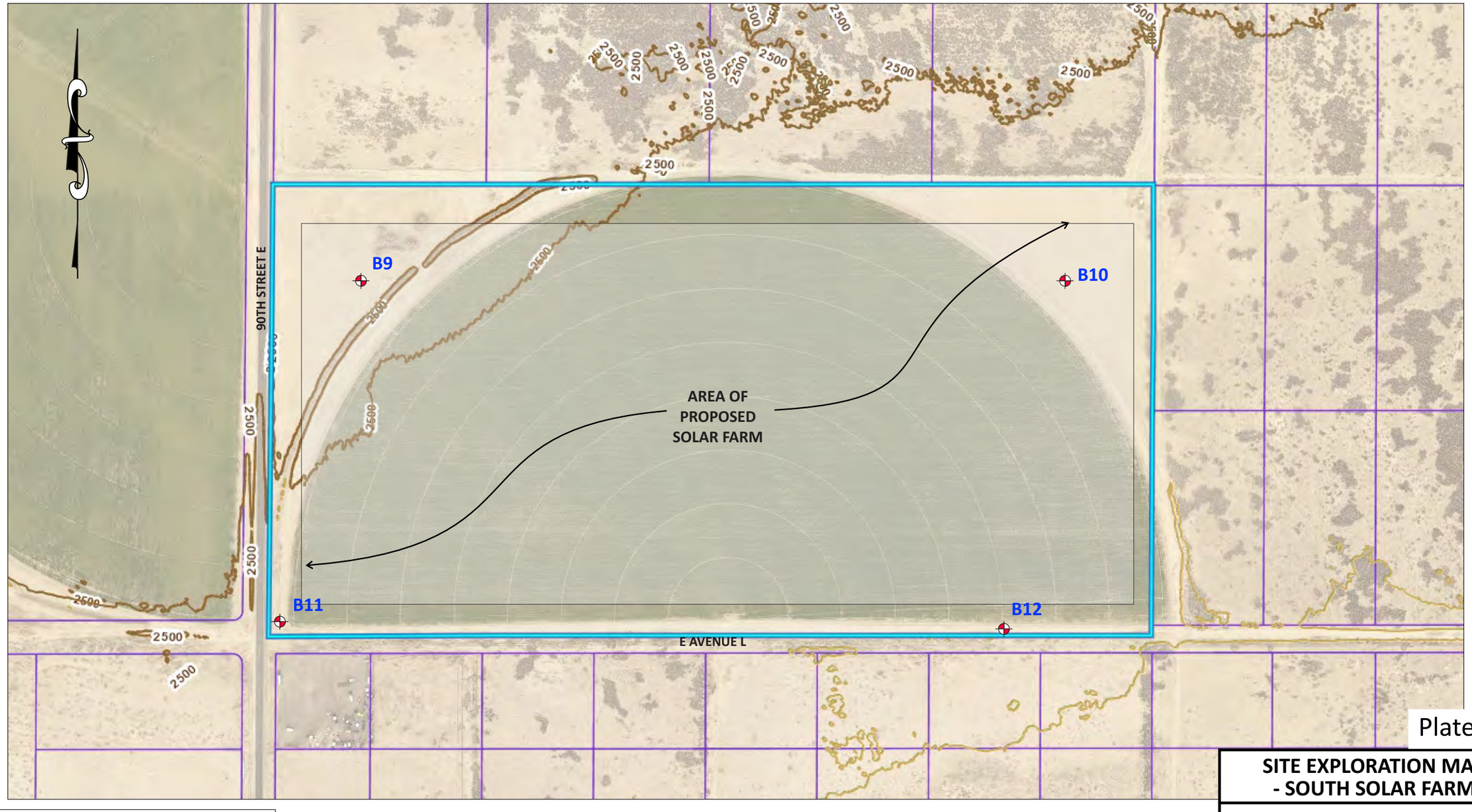


Plate V

SITE EXPLORATION MAP - SOUTH SOLAR FARM

PRONGHORN SOLAR & STORAGE
APN: 3378-004-008
LANCASTER, CALIFORNIA

LEGEND

B12 APPROXIMATE BORING LOCATION

APPROXIMATE SCALE
1 inch = 300 feet
(1:3,600)

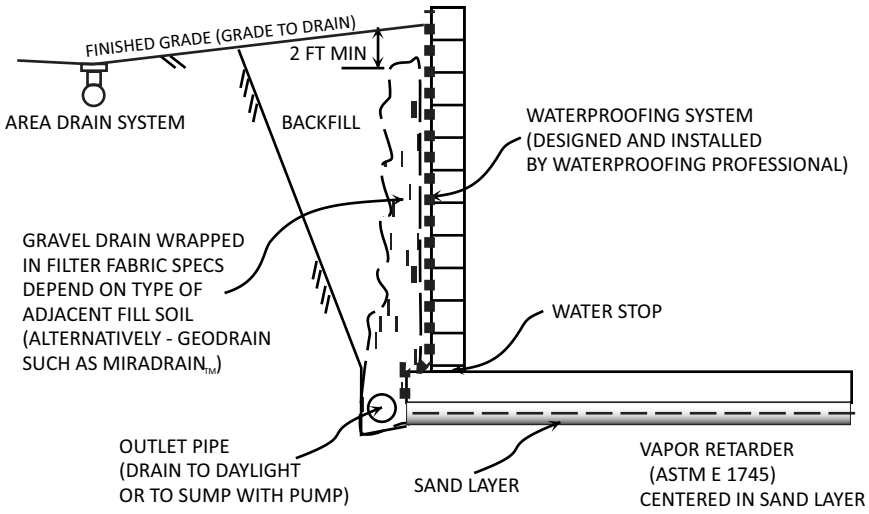
200 0 200 400 800

BASE MAP: LACo GIS w/ 2023 Imagery

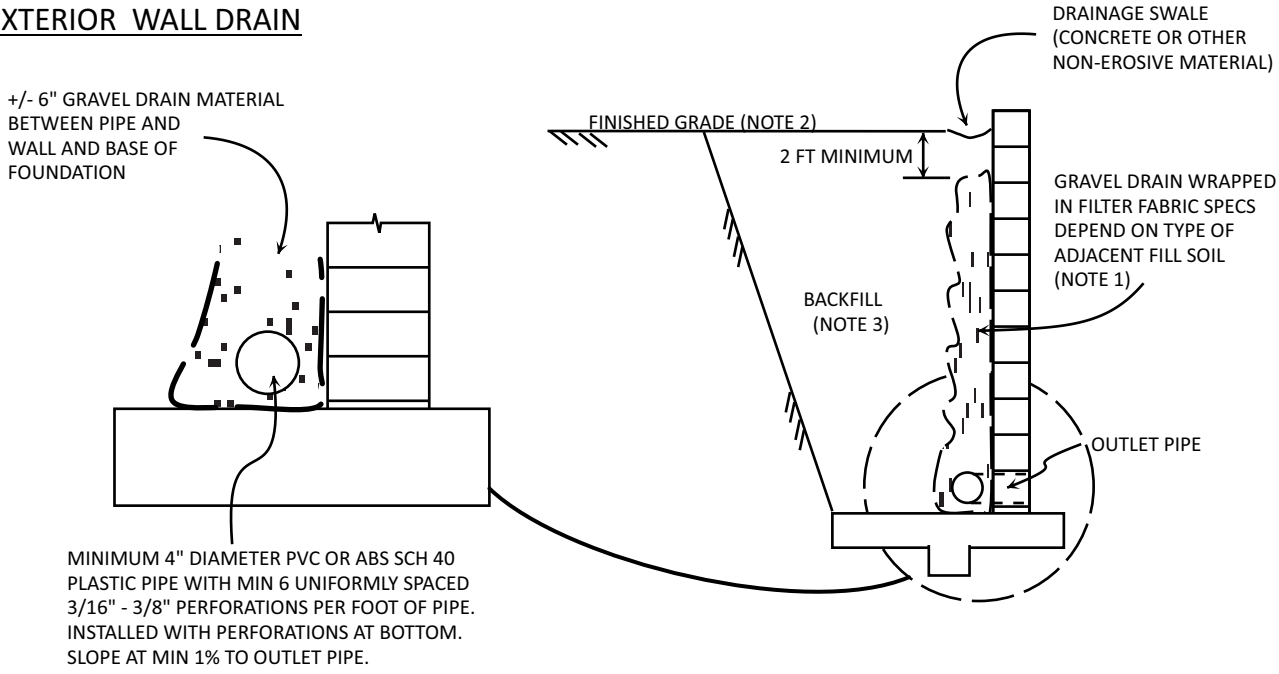
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BASEMENT WALL DRAIN



EXTERIOR WALL DRAIN



NOT TO SCALE

NOTE 1)
GRAVEL DRAIN MATERIAL SHALL CONSIST OF CLEAN PEA GRAVEL OR 3/8" GRAVEL WRAPPED IN APPROPRIATE FILTER FABRIC* OR CALIFORNIA CLASS II PERMEABLE MATERIAL

NOTE 2)
USE DRAINAGE SWALE OR GRADE TO DRAIN AWAY FROM WALL.

NOTE 3)
ENGINEERED BACKFILL COMPACTED AS RECOMMENDED IN GEOTECHNICAL REPORT. SPECIAL PROVISIONS WILL APPLY TO MODERATELY OR HIGHLY EXPANSIVE BACKFILL.

NOTE 4)
WEEP HOLES IN BASE BLOCK COURSE ARE RECOMMENDED. CARE SHOULD BE TAKEN THAT WEEPHOLES ARE NOT COVERED BY EXTERIOR GRADE OR PAVING.

Plate VI

RETAINING WALL BACKDRAIN DETAILS

PRONGHORN SOLAR & STORAGE
90TH STREET EAST
LANCASTER, CALIFORNIA

Earth Systems

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APPENDIX A

Unified Soil Classification System
Soil Consistency Terms
Boring Log Symbols
Logs of Test Borings by Earth Systems
Logs of Test Borings by Bruin (2023) on Adjacent Site

MAJOR DIVISIONS			GRAPH SYMBOL	LETTER SYMBOL	TYPICAL DESCRIPTIONS
COARSE GRAINED SOILS MORE THAN 50% OF MATERIAL IS LARGER THAN NO. 200 SIEVE SIZE	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	CLEAN GRAVELS (LITTLE OR NO FINES)		GW	WELL-GRADED GRAVELS, GRAVEL-SAND MIXTURES, LITTLE OR NO FINES
				GP	POORLY-GRADED GRAVELS, GRAVEL-SAND MIXTURES, LITTLE OR NO FINES
		GRAVELS WITH FINES (APPRECIABLE AMOUNT OF FINES)		GM	SILTY GRAVELS, GRAVEL-SAND-SILT MIXTURES
				GC	CLAYEY GRAVELS, GRAVEL-SAND-CLAY MIXTURES
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING NO. 4 SIEVE	CLEAN SAND (LITTLE OR NO FINES)		SW	WELL-GRADED SANDS, GRAVELLY SANDS, LITTLE OR NO FINES
				SP	POORLY-GRADED SANDS, GRAVELLY SANDS, LITTLE OR NO FINES
		SANDS WITH FINES (APPRECIABLE AMOUNTOF FINES)		SM	SILTY SANDS, SAND-SILT MIXTURES
				SC	CLAYEY SANDS, SAND-CLAY MIXTURES
FINE GRAINED SOILS MORE THAN 50% OF MATERIAL IS SMALLER THAN NO. 200 SIEVE SIZE	SILTS AND CLAYS	LIQUID LIMIT LESS THAN 50		ML	INORGANIC SILTS AND VERY FINE SANDS, ROCK FLOUR, SILTY OR CLAYEY FINE SANDS OR CLAYEY SILTS WITH SLIGHT PLASTICITY
				CL	INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, GRAVELLY CLAYS, SANDY CLAYS, SILTY CLAYS, LEAN CLAYS
				OL	ORGANIC SILTS AND ORGANIC SILTY CLAYS OF LOW PLASTICITY
	SILTS AND CLAYS	LIQUID LIMIT GREATER THAN 50		MH	INORGANIC SILTS, MICACEOUS OR DIATOMACEOUS FINE SAND OR SILTY SOILS
				CH	INORGANIC CLAYS OF HIGH PLASTICITY, FAT CLAYS
				OH	ORGANIC CLAYS OF MEDIUM TO HIGH PLASTICITY, ORGAINC SILTS
HIGHLY ORGANIC SOILS				PT	PEAT, HUMUS, SWAMP SOILS WITH HIGH ORGANIC CONTENT

NOTE: DUAL SYMBOLS ARE USED TO INDICATE BORDERLINE SOIL CLASSIFICATIONS

UNIFIED SOIL CLASSIFICATION SYSTEM

PRONGHORN SOLAR & STORAGE
90TH STREET EAST
LANCASTER, CALIFORNIA

Earth Systems

AUGUST 2025	307256-001

TERMS DESCRIBING CONSISTENCY OR CONDITION

COARSE GRAINED SOILS

(Major Portion Retained on Number 200 Sieve)

Includes clean gravels and sands described as fine, medium or coarse, depending on distribution of grain sizes, and silty or clayey gravels and sands, condition is rated according to laboratory tests or estimated from resistance to sampler penetration.

Penetration Resistance* California Split Spoon (CSS) Blows/Ft		Penetration Resistance* Standard Pentrometer (SPT) Blows/Ft
0-5	Very Loose	0-4
5-15	Loose	4-10
16-40	Medium Dense	11-30
41-70	Dense	31-50
>70	Very Dense	>50

Fine Grained Soils

(Major Portion Passing the Number 200 Sieve)

Includes inorganic and organic silts and clays, gravelly, sandy or silty clays, and clayey silts. Consistency is rated according to laboratory tests or estimated from resistance to sampler penetration.

Penetration Resistance* California Split Spoon (CSS) Blows/Ft		Penetration Resistance* Standard Pentrometer (SPT) Blows/Ft
0-2	Very Soft	0-2
2-5	Soft	2-4
6-10	Medium Stiff	5-8
11-18	Stiff	9-15
19-36	Very Stiff	16-30
>36	Hard	>30

* Penetration resistance based on a 140 pound hammer falling approximately 30 inches.

SOIL CONSISTENCY TERMS

PRONGHORN SOLAR & STORAGE
90TH STREET EAST
LANCASTER, CALIFORNIA

Earth Systems

AUGUST 2025	307256-001

TERMS DESCRIBING CONSISTENCY OR CONDITION

COARSE GRAINED SOILS

(Major Portion Retained on Number 200 Sieve)

Includes clean gravels and sands described as fine, medium or coarse, depending on distribution of grain sizes, and silty or clayey gravels and sands, condition is rated according to laboratory tests or estimated from resistance to sampler penetration.

Penetration Resistance* California Split Spoon (CSS) Blows/Ft		Penetration Resistance* Standard Pentrometer (SPT) Blows/Ft
0-5	Very Loose	0-4
5-15	Loose	4-10
16-40	Medium Dense	11-30
41-70	Dense	31-50
>70	Very Dense	>50

Fine Grained Soils

(Major Portion Passing the Number 200 Sieve)

Includes inorganic and organic silts and clays, gravelly, sandy or silty clays, and clayey silts. Consistency is rated according to laboratory tests or estimated from resistance to sampler penetration.

Penetration Resistance* California Split Spoon (CSS) Blows/Ft		Penetration Resistance* Standard Pentrometer (SPT) Blows/Ft
0-2	Very Soft	0-2
2-5	Soft	2-4
6-10	Medium Stiff	5-8
11-18	Stiff	9-15
19-36	Very Stiff	16-30
>36	Hard	>30

* Penetration resistance based on a 140 pound hammer falling approximately 30 inches.

SOIL CONSISTENCY TERMS

PRONGHORN SOLAR & STORAGE
90TH STREET EAST
LANCASTER, CALIFORNIA

Earth Systems

AUGUST 2025	307256-001

SYMBOLS COMMONLY USED ON BORING LOGS


Modified California Split Barrel Sampler


Modified California Split Barrel Sampler - No Recovery


Standard Penetration Test (SPT) Sampler


Standard Penetration Test (SPT) Sampler - No Recovery


Perched Water Level


Water Level First Encountered


Water Level After Drilling


Pocket Penetrometer (tsf)


Vane Shear (ksf)

1. The location of borings were approximately determined by pacing and/or siting from visible features. Elevations of borings are approximately determined by interpolating between plan contours. The location and elevation of the borings should be considered accurate only to the degree implied by the method used.

2. The stratification lines represent the approximate boundary between soil types and the transition may be gradual.

3. Water level readings have been made in the drill holes at times and under conditions stated on the boring logs. This data has been reviewed and interpretations made in the text of this report. However, it must be noted that fluctuations in the level of the groundwater may occur due to variations in rainfall, tides, temperature, and other factors at the time measurements were made.

BORING LOG SYMBOLS

PRONGHORN SOLAR & STORAGE
90TH STREET EAST
LANCASTER, CALIFORNIA

Earth Systems

AUGUST 2025	307256-001

Earth Systems

2122 East Walnut Street, Suite 200, Pasadena 91107
Phone: (626) 356-0955

PROJECT NAME:	Pronghorn Solar and Storage	BORING NO:	**B1**
PROJECT NUMBER:	307256-001	DRILL RIG:	B-61
DRILLING DATE:	6/16/2025	DRILLING METHOD:	8-inch hollow-stem auger
BORING LOCATION:	See Plate IV	LOGGED BY:	Saleh Jumah

Vertical Depth	Sample Type: Bulk	Sample Type: SPT	Sample Type: Mod. Calif.	Penetration Resistance (Blows/6-inches)	Symbol	USCS Classification	Unit Dry Weight (pcf)	Moisture Content (%)	DESCRIPTION OF UNITS
0									3-inches Asphalt Concrete Over No Base.
						SP-SM			**Artificial Fill (af):** Poorly graded slightly silty fine SAND, light brownish gray, slightly moist, loose.
			■	4, 7, 8		SP-SM	105.4	2.5	**Alluvium (Qa):** Poorly graded fine SAND, light brownish gray, slightly moist, loose.
5			■	4, 6, 10		ML	94.2	17.7	Sandy SILT, light brownish gray, moist, stiff, fine grained sand.
			■	9, 16, 20		SM	121.8	12.9	Silty SAND, brown, moist, medium dense, fine to medium grained sand.
10		■		4, 4, 8		SC		15.6	Clayey SAND, brown, moist, loose, fine to medium grained sand.
15			■	12, 18, 24		SM	126.2	10.2	SILTY SAND, light brownish gray, moist, dense, fine to medium grained sand, some gravel up to 0.5 inches.
20			■	11, 19, 25			124.1	13.1	Gravel up to 1 inch.
25									Total depth 21.5 feet. Groundwater was not encountered. Backfilled with soil cuttings. Note: The stratification lines shown represent the approximate boundaries between soil and/or rock and may be gradational.
30									
35									

Earth Systems

2122 East Walnut Street, Suite 200, Pasadena 91107
Phone: (626) 356-0955

PROJECT NAME:	Pronghorn Solar and Storage	BORING NO:	**B2**
PROJECT NUMBER:	307256-001	DRILL RIG:	B-61
DRILLING DATE:	6/16/2025	DRILLING METHOD:	8-inch hollow-stem auger
BORING LOCATION:	See Plate IV	LOGGED BY:	Saleh Jumah

Vertical Depth	Sample Type: Bulk	Sample Type: SPT	Sample Type: Mod. Calif.	Penetration Resistance (Blows/6-inches)	Symbol	USCS Classification	Unit Dry Weight (pcf)	Moisture Content (%)	DESCRIPTION OF UNITS
0									2.5 inches of Asphalt Concrete Over 4 inches of Base.
						SP-SM			**Artificial Fill (af):** Poorly graded slightly silty fine SAND, light brownish gray, slightly moist, medium dense.
				5, 8, 9		SP-SM	108.2	4.1	**Alluvium (Qa):** Slightly silty fine SAND, light brownish gray, slightly moist, medium dense.
5				8, 9, 10		SW	103.3	3.3	Well-graded SAND, light brownish gray, slightly moist, medium dense, fine to medium grained sand.
				13, 23, 28		CL	115.4	7.9	Silty, Sandy CLAY, olive, moist, hard, fine to medium grained sand.
10				13, 19, 25		SM	125.2	6.9	Silty SAND, brown, moist, dense, fine to medium grained sand.
15				6, 6, 10		ML		8.7	Sandy SILT, brown, moist, very stiff, fine to medium grained sand.
20				8, 15, 20			121.4	13.4	Sandy SILT with clay trace gravel, brown, moist, very stiff, fine grained sand, trace gravel up to 1 inch.
25									Total depth 21.5 feet. Groundwater was not encountered. Backfilled with soil cuttings. Note: The stratification lines shown represent the approximate boundaries between soil and/or rock and may be gradational.
30									
35									

Earth Systems

2122 East Walnut Street, Suite 200, Pasadena 91107
Phone: (626) 356-0955

PROJECT NAME:	Pronghorn Solar and Storage	BORING NO:	**B3**
PROJECT NUMBER:	307256-001	DRILL RIG:	B-61
DRILLING DATE:	6/16/2025	DRILLING METHOD:	8-inch hollow-stem auger
BORING LOCATION:	See Plate IV	LOGGED BY:	Saleh Jumah

Vertical Depth	Sample Type: Bulk	Sample Type: SPT	Sample Type: Mod. Calif.	Penetration Resistance (Blows/6-inches)	Symbol	USCS Classification	Unit Dry Weight (pcf)	Moisture Content (%)	DESCRIPTION OF UNITS
0									2.5 inches of Asphalt Concrete Over 4.5 inches of Base.
						SM			**Artificial Fill (af):** Silty SAND, brown, dry, medium dense, fine to medium grained sand.
			■	5 ,9, 10		SM	112.5	1.8	**Alluvium (Qa):** Silty SAND, brown, dry, medium dense, fine to medium grained sand.
5			■	6, 9, 9		ML	99.3	2.2	Sandy SILT, brown, dry, medium dense.
			■	5, 15, 22			124.9	2.2	Sandy SILT, brown, dry, medium dense.
10			■	11, 16, 24			124.9	5.8	Slightly moist, dense.
						ML			
15		■		7, 8, 9				9.5	Moist, medium dense.
20			■	8, 8, 15		CL	103.3	23.0	Silty CLAY, olive, saturated, very stiff.
25									Total depth 21.5 feet. Groundwater was not encountered. Backfilled with soil cuttings. Note: The stratification lines shown represent the approximate boundaries between soil and/or rock and may be gradational.
30									
35									

Earth Systems

2122 East Walnut Street, Suite 200, Pasadena 91107
Phone: (626) 356-0955

PROJECT NAME:	Pronghorn Solar and Storage	BORING NO:	**B4**
PROJECT NUMBER:	307256-001	DRILL RIG:	B-61
DRILLING DATE:	6/16/2025	DRILLING METHOD:	8-inch hollow-stem auger
BORING LOCATION:	See Plate IV	LOGGED BY:	Saleh Jumah

Vertical Depth	Sample Type: Bulk	Sample Type: SPT	Sample Type: Mod. Calif.	Penetration Resistance (Blows/6-inches)	Symbol	USCS Classification	Unit Dry Weight (pcf)	Moisture Content (%)	DESCRIPTION OF UNITS
0									2.5 inches of Asphalt Concrete Over 4 inches of Base.
	X					SM			**Artificial Fill (af)**: Silty SAND trace gravel, light brownish gray, dry, medium dense, fine to med grained sand, trace gravel up to 1.5 inches.
5	X		■	6, 8, 10		SM	99.6	2.0	**Alluvium (Qa)**: Silty SAND trace gravel, light brownish gray, dry, medium dense, fine to medium grained sand.
									Total depth 5 feet.
									Groundwater was not encountered.
									Backfilled with soil cuttings.
10									Note: The stratification lines shown represent the approximate boundaries between soil and/or rock and may be gradational.
15									
20									
25									
30									
35									

Earth Systems

2122 East Walnut Street, Suite 200, Pasadena 91107
Phone: (626) 356-0955

PROJECT NAME:	Pronghorn Solar and Storage	BORING NO:	**B5**
PROJECT NUMBER:	307256-001	DRILL RIG:	B-61
DRILLING DATE:	6/16/2025	DRILLING METHOD:	8-inch hollow-stem auger
BORING LOCATION:	See Plate IV	LOGGED BY:	Saleh Jumah

Vertical Depth	Sample Type: Bulk	Sample Type: SPT	Sample Type: Mod. Calif.	Penetration Resistance (Blows/6-inches)	Symbol	USCS Classification	Unit Dry Weight (pcf)	Moisture Content (%)	DESCRIPTION OF UNITS
0									
				6, 9, 9		SP-SM	109.5	1.7	**Alluvium (Qa):** Slightly silty poorly graded fine SAND, light brownish gray, dry, medium dense.
5									Total depth 5 feet. Groundwater was not encountered. Backfilled with soil cuttings. Note: The stratification lines shown represent the approximate boundaries between soil and/or rock and may be gradational.
10									
15									
20									
25									
30									
35									

Earth Systems

2122 East Walnut Street, Suite 200, Pasadena 91107
Phone: (626) 356-0955

PROJECT NAME:	Pronghorn Solar and Storage	BORING NO:	**B6**
PROJECT NUMBER:	307256-001	DRILL RIG:	B-61
DRILLING DATE:	6/16/2025	DRILLING METHOD:	8-inch hollow-stem auger
BORING LOCATION:	See Plate IV	LOGGED BY:	Saleh Jumah

Vertical Depth	Sample Type: Bulk	Sample Type: SPT	Sample Type: Mod. Calif.	Penetration Resistance (Blows/6-inches)	Symbol	USCS Classification	Unit Dry Weight (pcf)	Moisture Content (%)	DESCRIPTION OF UNITS
0									
			■	3, 4, 8		SM	117.1	12.8	**Alluvium (Qa)**: Silty Clayey SAND, brown, moist, loose, fine grained sand.
5			■	6, 12, 16			116.2	6.1	**Alluvium (Qa):** Silty SAND, brown, slightly moist, medium dense, fine to medium grained sand.
			■	7, 11, 14		SM	108.7	13.3	Silty Clayey SAND, light brownish gray, moist, meduim dense, fine to medium grained sand.
10		■		4, 5, 6		SP-SM		5.4	Slightly silty fine SAND, light brownish gray, slightly moist, loose.
15			■	8, 9, 13		ML	119.2	12.8	Sandy SILT, brown, moist, very stiff, fine to medium grained sand.
20			■	12, 15, 20		SP	121.7	5.1	Poorly graded fine SAND trace gravel, light brownish gray, slightly moist, medium dense, trace gravel up to 1 inch.
25									Total depth 21.5 feet. Groundwater was not encountered. Backfilled with soil cuttings. Note: The stratification lines shown represent the approximate boundaries between soil and/or rock and may be gradational.
30									
35									

Earth Systems

2122 East Walnut Street, Suite 200, Pasadena 91107
Phone: (626) 356-0955

PROJECT NAME:	Pronghorn Solar and Storage	BORING NO:	**B7**
PROJECT NUMBER:	307256-001	DRILL RIG:	B-61
DRILLING DATE:	6/16/2025	DRILLING METHOD:	8-inch hollow-stem auger
BORING LOCATION:	See Plate IV	LOGGED BY:	Saleh Jumah

Vertical Depth	Sample Type: Bulk	Sample Type: SPT	Sample Type: Mod. Calif.	Penetration Resistance (Blows/6-inches)	Symbol	USCS Classification	Unit Dry Weight (pcf)	Moisture Content (%)	DESCRIPTION OF UNITS
0	X								
	X		■	4, 6, 6	▒	SP-SM	109.6	4.1	**Alluvium (Qa):** Slightly silty poorly graded SAND, light brownish gray, moist, medium dense, fine to medium grained- sand.
5									Total depth 5 feet. Groundwater was not encountered. Backfilled with soil cuttings. Note: The stratification lines shown represent the approximate boundaries between soil and/or rock and may be gradational.
10									
15									
20									
25									
30									
35									

Earth Systems

2122 East Walnut Street, Suite 200, Pasadena 91107
Phone: (626) 356-0955

PROJECT NAME:	Pronghorn Solar and Storage	BORING NO:	**B8**
PROJECT NUMBER:	307256-001	DRILL RIG:	B-61
DRILLING DATE:	6/16/2025	DRILLING METHOD:	8-inch hollow-stem auger
BORING LOCATION:	See Plate IV	LOGGED BY:	Saleh Jumah

Vertical Depth	Sample Type: Bulk	Sample Type: SPT	Sample Type: Mod. Calif.	Penetration Resistance (Blows/6-inches)	Symbol	USCS Classification	Unit Dry Weight (pcf)	Moisture Content (%)	DESCRIPTION OF UNITS
0									
			■	4, 5, 6		SP-SM	110.7	2.1	**Alluvium (Qa):** Slightly silty fine SAND, light brownish gray, dry, loose.
5			■	5, 6, 8		SM	110.4	3.5	Silty SAND, brown, dry, medium dense, fine to medium grained sand.
			■	4, 7, 11		SP-SM	107.7	6.4	Slightly silty fine SAND, light brownish gray, moist, medium dense.
10			■	10, 12, 15		SM	117.3	4.3	Silty SAND, brown, moist, medium dense, fine to medium grained sand.
15		■		4, 5, 7		SP-SM		7.2	Silty fine SAND, pale olive, moist, loose.
20			■	23, 30, 40			128.4	10.4	Dense.
									Total depth 21.5 feet.
25									Groundwater was not encountered.
									Backfilled with soil cuttings.
									Note: The stratification lines shown represent the approximate boundaries between soil and/or rock and may be gradational.
30									
35									

Earth Systems

2122 East Walnut Street, Suite 200, Pasadena 91107
Phone: (626) 356-0955

PROJECT NAME:	Pronghorn Solar and Storage	BORING NO:	**B9**
PROJECT NUMBER:	307256-001	DRILL RIG:	B-61
DRILLING DATE:	6/16/2025	DRILLING METHOD:	8-inch hollow-stem auger
BORING LOCATION:	See Plate IV	LOGGED BY:	Saleh Jumah

Vertical Depth	Sample Type: Bulk	Sample Type: SPT	Sample Type: Mod. Calif.	Penetration Resistance (Blows/6-inches)	Symbol	USCS Classification	Unit Dry Weight (pcf)	Moisture Content (%)	DESCRIPTION OF UNITS
0									
			■	7, 9, 11		SP	103.2	2.2	**Alluvium (Qa):** Poorly graded fine SAND, light brownish gray, dry, medium dense.
5			▨	8, 10, 13					
			■	5, 12, 23			117.1	5.7	Silty fine SAND, light brownish gray, slightly moist, medium dense.
10			■	5, 11, 20			118.1	11.0	Silty fine SAND with clay, brown, moist, medium dense.
						SP-SM			
15		■		5, 6, 5				1.6	
20			■	12, 22, 22		ML	132.3	6.2	Sandy SILT trace gravel, brown, moist, hard, fine to medium grained sand, trace gravel up to 1 inch.
25									Total depth 21.5 feet. Groundwater was not encountered. Backfilled with soil cuttings. Note: The stratification lines shown represent the approximate boundaries between soil and/or rock and may be gradational.
30									
35									

Earth Systems

2122 East Walnut Street, Suite 200, Pasadena 91107
Phone: (626) 356-0955

PROJECT NAME:	Pronghorn Solar and Storage	BORING NO:	**B10**
PROJECT NUMBER:	307256-001	DRILL RIG:	B-61
DRILLING DATE:	6/16/2025	DRILLING METHOD:	8-inch hollow-stem auger
BORING LOCATION:	See Plate IV	LOGGED BY:	Saleh Jumah

Vertical Depth	Sample Type: Bulk	Sample Type: SPT	Sample Type: Mod. Calif.	Penetration Resistance (Blows/6-inches)	Symbol	USCS Classification	Unit Dry Weight (pcf)	Moisture Content (%)	DESCRIPTION OF UNITS
0									
			■	6, 7, 8		SP-SM	97.5	3.0	**Alluvium (Qa):** Slightly silty poorly graded fine SAND trace gravel, light brownish gray, slightly moist, medium dense, fine trace gravel.
5			■	6, 9, 12			99.3	1.6	
			■	5, 9, 11		SP-SM	100.9	0.9	Slightly silty fine SAND, light brownish gray, dry, medium dense.
10		■		5, 5, 5				1.5	
						SP			Poorly graded fine SAND, light brownish gray, moist, loose.
15			■	9, 9, 17			114.9	18.0	Clayey SAND with silt, brown, saturated, medium dense, fine to medium-grained sand.
						SC			
20			■	19, 27, 28		SM	123.6	11.9	Silty SAND some gravel, brown, moist, dense, grain size up to fine gravel.
									Total depth 21.5 feet.
25									Groundwater was not encountered.
									Backfilled with soil cuttings.
									Note: The stratification lines shown represent the approximate boundaries between soil and/or rock and may be gradational.
30									
35									

Earth Systems

2122 East Walnut Street, Suite 200, Pasadena 91107
Phone: (626) 356-0955

PROJECT NAME:	Pronghorn Solar and Storage	BORING NO:	**B11**
PROJECT NUMBER:	307256-001	DRILL RIG:	B-61
DRILLING DATE:	6/16/2025	DRILLING METHOD:	8-inch hollow-stem auger
BORING LOCATION:	See Plate IV	LOGGED BY:	Saleh Jumah

Vertical Depth	Sample Type: Bulk	Sample Type: SPT	Sample Type: Mod. Calif.	Penetration Resistance (Blows/6-inches)	Symbol	USCS Classification	Unit Dry Weight (pcf)	Moisture Content (%)	DESCRIPTION OF UNITS
0	X								**Alluvium (Qa):** Silty fine SAND some gravel, pale olive, dry, loose, gravel up to fine-grained.
			■	5, 5, 8		SM	97.3	3.2	
5			■	10, 13, 18		SP-SM	112.3	1.4	Slightly silty fine SAND some gravel, pale olive, dry, loose, gravel up to fine-grained.
			■	6, 9, 15		SC	113.1	17.5	Clayey SAND, brown, moist, meduim dense.
10		■		4, 6, 8				3.6	Poorly graded SAND, light brownish gray, dry, medium dense, fine to medium grained- sand.
15			■	9, 15, 25		SP	105.1	2.5	
20			■	17, 19, 21		SM	111.3	17.4	Silty SAND with clay and trace fine gravel, brown, moist, medium dense.
25									Total depth 21.5 feet. Groundwater was not encountered. Backfilled with soil cuttings. Note: The stratification lines shown represent the approximate boundaries between soil and/or rock and may be gradational.
30									
35									

Earth Systems

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Phone: (626) 356-0955

PROJECT NAME:	Pronghorn Solar and Storage	BORING NO:	**B12**
PROJECT NUMBER:	307256-001	DRILL RIG:	B-61
DRILLING DATE:	6/16/2025	DRILLING METHOD:	8-inch hollow-stem auger
BORING LOCATION:	See Plate IV	LOGGED BY:	Saleh Jumah

Vertical Depth	Sample Type: Bulk	Sample Type: SPT	Sample Type: Mod. Calif.	Penetration Resistance (Blows/6-inches)	Symbol	USCS Classification	Unit Dry Weight (pcf)	Moisture Content (%)	DESCRIPTION OF UNITS
0									
			■	9, 10, 11		SM	107.9	4.2	**Alluvium (Qa):** Silty SAND, brown, slightly moist, medium dense, fine to medium grained sand.
5			■	7, 12, 15		SW	108.3	1.3	Well-graded SAND some gravel, light brownish gray, dry, medium dense, grain size up to fine gravel.
			■	4, 6, 10		ML	114.1	10.1	Clayey SILT some sand, light brownish gray, moist, stiff, fine grained sand.
10			■	5, 9, 13			113.4	16.4	Clayey SAND, brown, moist, medium dense, fine grained sand.
15		■		3, 5, 7		SC		19.9	
20			■	11, 15, 13		SM	106.7	2.7	Silty SAND, light brownish gray, dry, medium dense, fine to medium grained sand.
25									Total depth 21.5 feet. Groundwater was not encountered. Backfilled with soil cuttings. Note: The stratification lines shown represent the approximate boundaries between soil and/or rock and may be gradational.
30									
35									

Date(s) drilled	**10/7/2022**	**LOG OF BORING 1**	
Drilling Contractor	**GP Drilling**	**Page 1 of 2**	
Drilling Method	**Hollow Stem Auger**		
Drill Rig Type	**CME 75**	Logged By:	**AM**
Drill Bit Size/Type	**8"**	Checked By:	**MS**
Sampling Method(s)	**CSS/ Bulk**	Total Depth of Borehole	**50' bgs**
Client: **Mr. Fadel Maida**	Groundwater	**None Encountered**	Boring Location: **See Figure 2**
Project Number: **22-340**	Borehole Backfill	**Native/ Cuttings**	Notes:
Project Location: **Lancaster**	Hammer Data	**140#, 30" drop**	

Depth	Sample	USCS	Graphic Log	Material Description	Penetration Resistance (Blows/6")	Dry Unit Weight pcf	Water Content %
		SM		Olive-brown very silty fine to medium sand w/ coarse sand Medium dense, moist	6-9	102.5	2.0
		SM		Brown slightly silty very fine to medium sand w/ occ. coarse sand	4-7	96.7	2.6
5'				Loose, moist			
		SM		Brown silty very fine to medium sand Medium dense, moist	6-10	105.8	11.5
		SM		Brown silty very fine to medium sand & slight clay binder Medium dense, moist	7-13	112.6	12.7
10'		SM/ML		Brown very fine to medium sandy silt Medium dense, very moist	5-17	DIST	12.5
15'		ML		Brown sandy silt w/ fine sand & occ. coarse sand & #4 gravel Firm, moist	6-12	115.4	12.6
20'		ML		Brown fine to medium sandy silt w/ coarse sand & 1/2" gravel & slight clay (cemented) Medium dense, very moist	7-10	DIST	20.5
25'		SM		Yellowish-brown slightly silty fine to medium sand w/ occ. coarse sand Medium dense, moist	16-20	97.2	6.8
30'		SM		Yellowish-brown slightly silty fine to medium sand w/ occ. coarse sand Medium dense, moist	10-16	113.9	6.8

Date(s) drilled	**10/7/2022**	**LOG OF BORING 1**	
Drilling Contractor	**GP Drilling**	**Page 2 of 2**	
Drilling Method	**Hollow Stem Auger**		
Drill Rig Type	**CME 75**	Logged By:	**AM**
Drill Bit Size/Type	**8"**	Checked By:	**MS**
Sampling Method(s)	**CSS/Bulk**	Total Depth of Borehole	**50' bgs**
Client: **Mr. Fadel Maida**	Groundwater	**None Encountered**	Boring Location: **See Figure 2**
Project Number: **22-340**	Borehole Backfill	**Native/ Cuttings**	Notes:
Project Location: **Lancaster**	Hammer Data	**140#, 30" drop**	

Depth	Sample	USCS	Graphic Log	Material Description	Penetration Resistance (Blows/6")	Dry Unit Weight pcf	Water Content %
		SM		Yellowish-brown slightly silty fine to medium sand w/ occ. coarse sand			
35'							
40'		SM/ML		Brown very silty very fine to medium sand w/ occ. coarse sand & 1/2" gravel Medium dense, moist	9-12	112.5	12.2
45'							
50'		SM		Yellowish-brown slightly silty fine to medium sand Medium dense, dry	15-16	98.8	3.1
55'				Boring terminated @ 50' bgs No groundwater No caving			
60'							

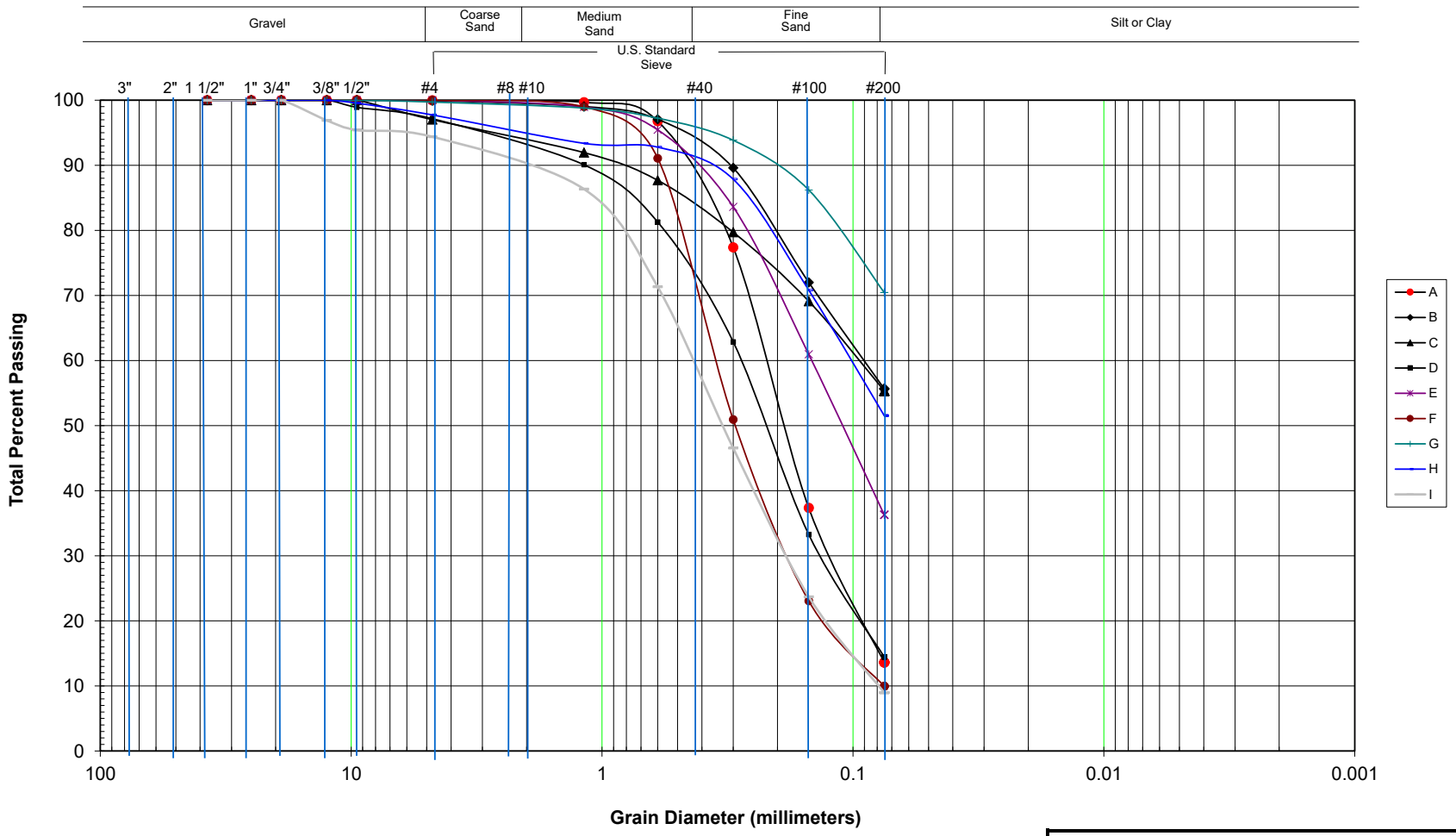
BRUIN GEOTECHNICAL SERVICES INC. est. 2004 TM

Date(s) drilled	**10/7/2022**	**LOG OF BORING 2**	
Drilling Contractor	**GP Drilling**	**Page 1 of 1**	
Drilling Method	**Hollow Stem Auger**		
Drill Rig Type	**CME 75**	Logged By:	**AM**
Drill Bit Size/Type	**8"**	Checked By:	**MS**
Sampling Method(s)	**CSS**	Total Depth of Borehole	**30' bgs**
Client: **Mr. Fadel Maida**	Groundwater	**None Encountered**	Boring Location: **See Figure 2**
Project Number: **22-340**	Borehole Backfill	**Native/ Cuttings**	Notes:
Project Location: **Lancaster**	Hammer Data	**140#, 30" drop**	

Depth	Sample	USCS	Graphic Log	Material Description	Penetration Resistance (Blows/6")	Dry Unit Weight pcf	Water Content %
		SP		Light brown slightly silty fine to medium sand w/ occ. coarse sand Medium dense, dry	6-8	93.2	1.6
5'		SP/SM		Light brown silty very fine to medium sand w/ occ. coarse sand Medium dense, dry	7-7	DIST	2.1
		SM		Brown silty very fine to medium sand w/ occ. coarse sand Medium dense, slightly moist	8-11	108.8	6.5
10'		SM		Brown fine to medium sandy silt w/ occ. coarse sand Medium dense, slightly moist	7-12	117.5	4.7
		SM/ML		Brown slightly silty very fine to medium sand w/ coarse sand & occ. #4-1/2" gravel Medium dense, moist	6-9	99.4	8.1
15'		ML		Brown fine to medium sandy silt w/ occ. coarse sand & slight clay binder Firm, moist	6-10	112.6	10.0
20'		ML		Brown fine to medium sandy silt w/ occ. coarse sand & slight clay binder Firm, very moist	7-13	99.3	17.8
25'		SP		Light yellowish-brown slightly silty fine to medium sand w/ coarse sand Medium dense, slightly moist	17-28	DIST	1.5
30'		SM		Yellowish-brown slightly silty fine to medium sand w/ occ. coarse sand	10-16	N/R	N/R
				Boring Terminated @ 30' bgs			

APPENDIX B

Laboratory Test Results



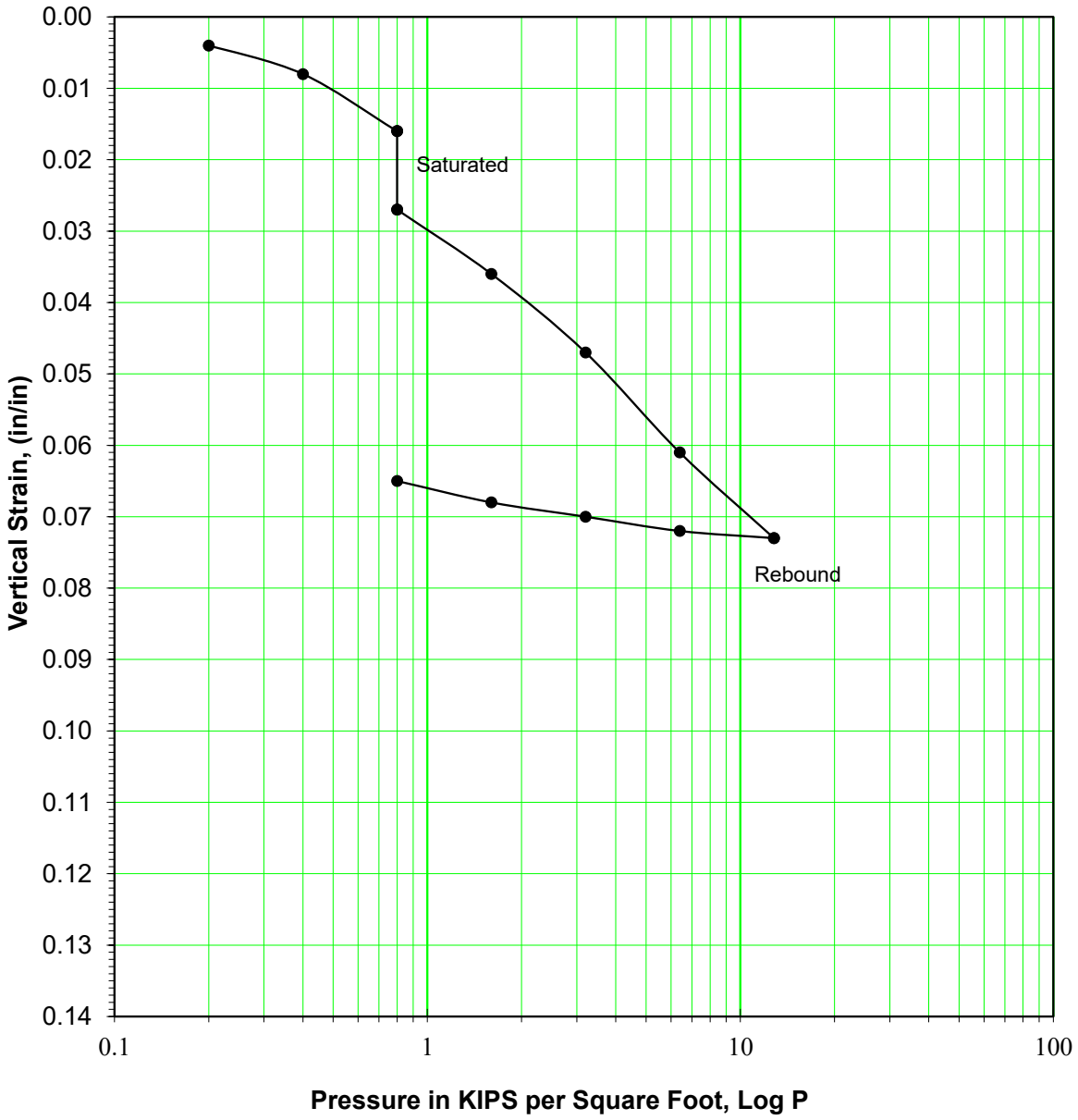
	Sample Location	Soil Type	Fines
A	B3 at 5 feet	Silty SAND (SM)	14 %
B	B3 at 7.5 feet	Sandy SILT (ML)	56 %
C	B3 at 15 feet	Sandy SILT trace gravel (ML)	55 %
D	B4 at 3.5 feet	Silty SAND trace gravel (SM)	14 %
E	B6 at 5 feet	Silty SAND (SM)	36 %
F	B6 at 10 feet	Silty fine SAND (SP-SM)	10 %
G	B6 at 15 feet	Sandy SILT (ML)	70 %
H	B9 at 20 feet	Sandy SILT trace gravel (ML)	52 %
I	B11 at 0-3 feet	Silty fine SAND some gravel (SP-SM)	9 %

GRAIN SIZE ANALYSIS SUMMARY

PRONGHORN SOLAR & STORAGE
90TH STREET EAST
LANCASTER, CALIFORNIA

Earth Systems

AUGUST 2025	307256-001



Sample Location:	B2 at 2.5
Material:	Fill; Poorly graded fine SAND (SP)
Initial Dry Density:	108.2 pcf
Moisture Content:	4.1%
Hydroconsolidation:	1.1%

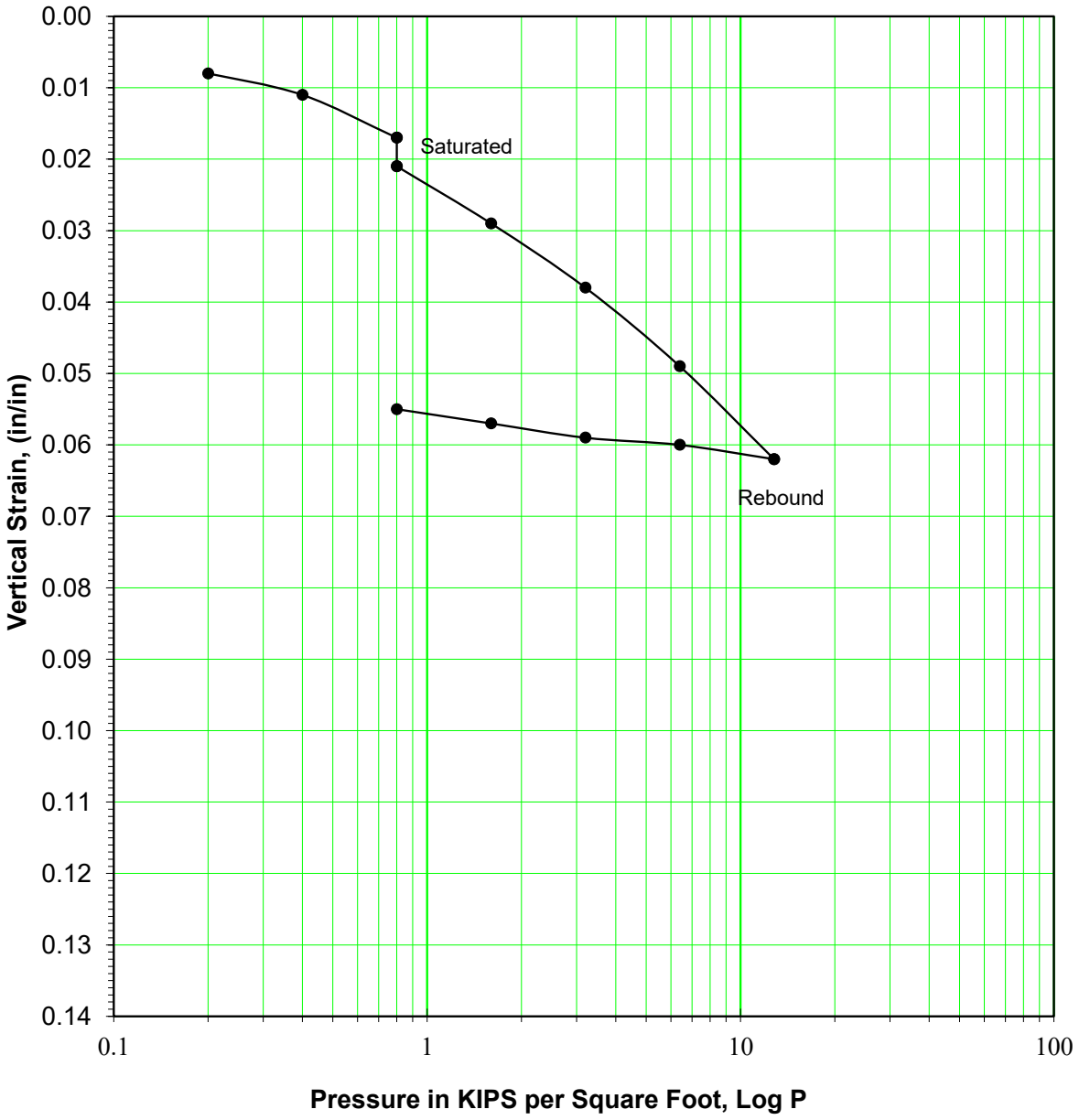
* Test Method: ASTM D-2435

CONSOLIDATION TEST

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90TH STREET EAST
LANCASTER, CALIFORNIA

Earth Systems

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Sample Location:	B4 at 3.5
Material:	Fill; Silty SAND (SM)
Initial Dry Density:	99.6 pcf
Moisture Content:	2.0%
Hydroconsolidation:	0.4%

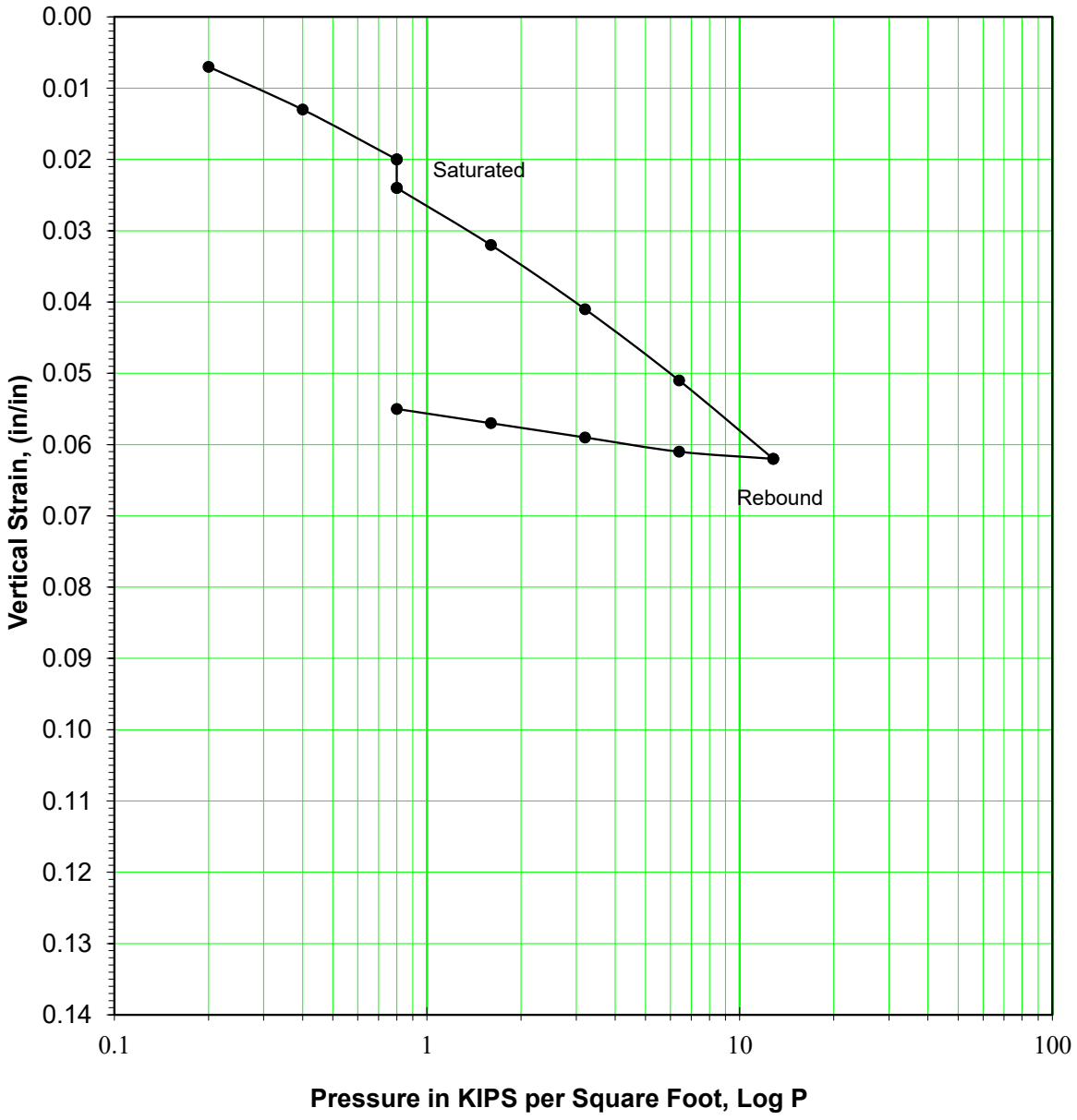
* Test Method: ASTM D-2435

CONSOLIDATION TEST

PRONGHORN SOLAR & STORAGE
90TH STREET EAST
LANCASTER, CALIFORNIA

Earth Systems

AUGUST 2025	307256-001



Sample Location:	B5 at 3.5
Material:	Alluvium; Silty poorly graded fine SAND (SP-SM)
Initial Dry Density:	109.5 pcf
Moisture Content:	1.7%
Hydroconsolidation:	0.4%

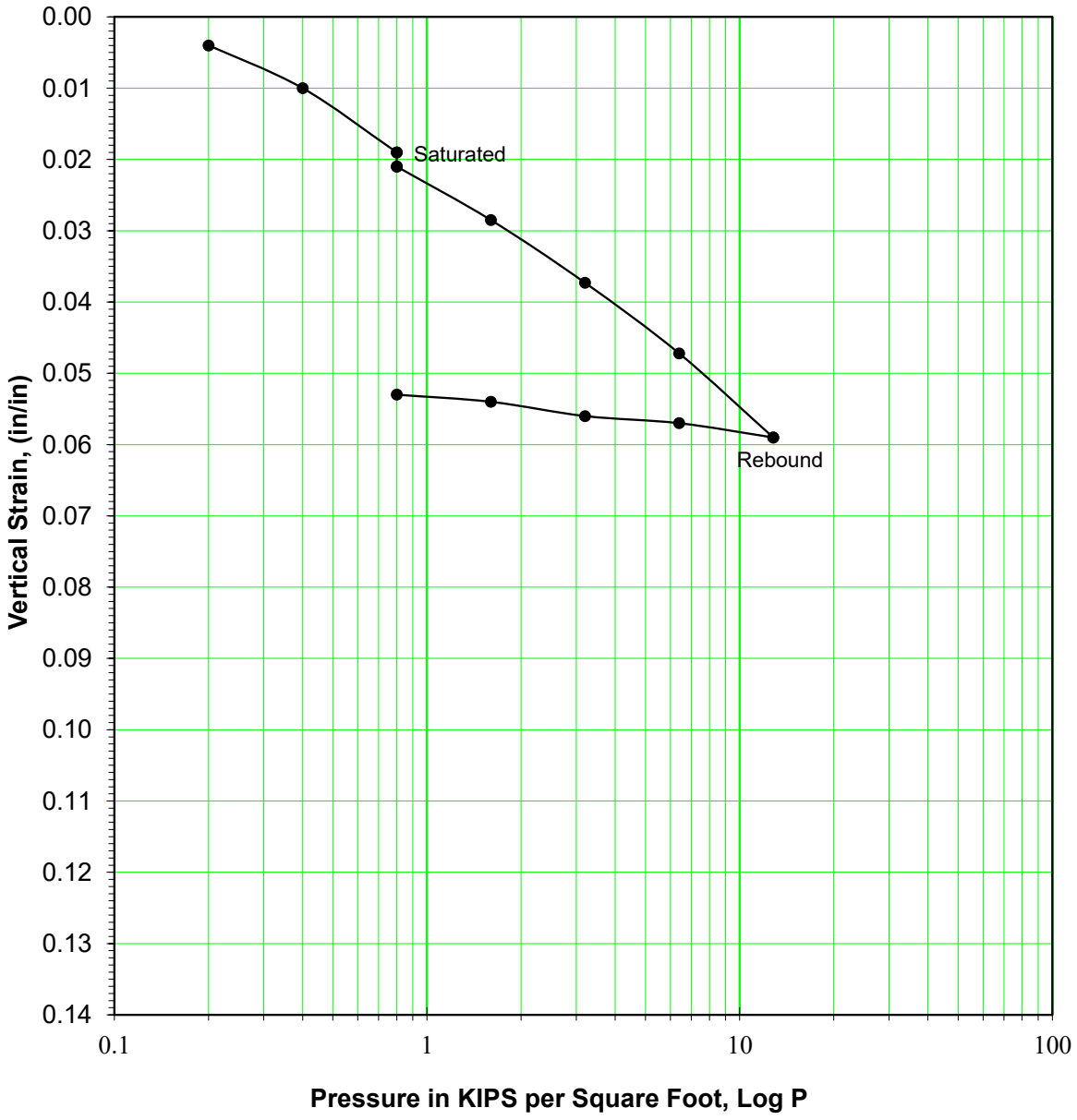
* Test Method: ASTM D-2435

CONSOLIDATION TEST

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90TH STREET EAST
LANCASTER, CALIFORNIA

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Sample Location:	B12 at 5 feet
Material:	Alluvium; Well-graded SAND with gravel (SW)
Initial Dry Density:	108.3 pcf
Moisture Content:	1.3%
Hydroconsolidation:	0.2%

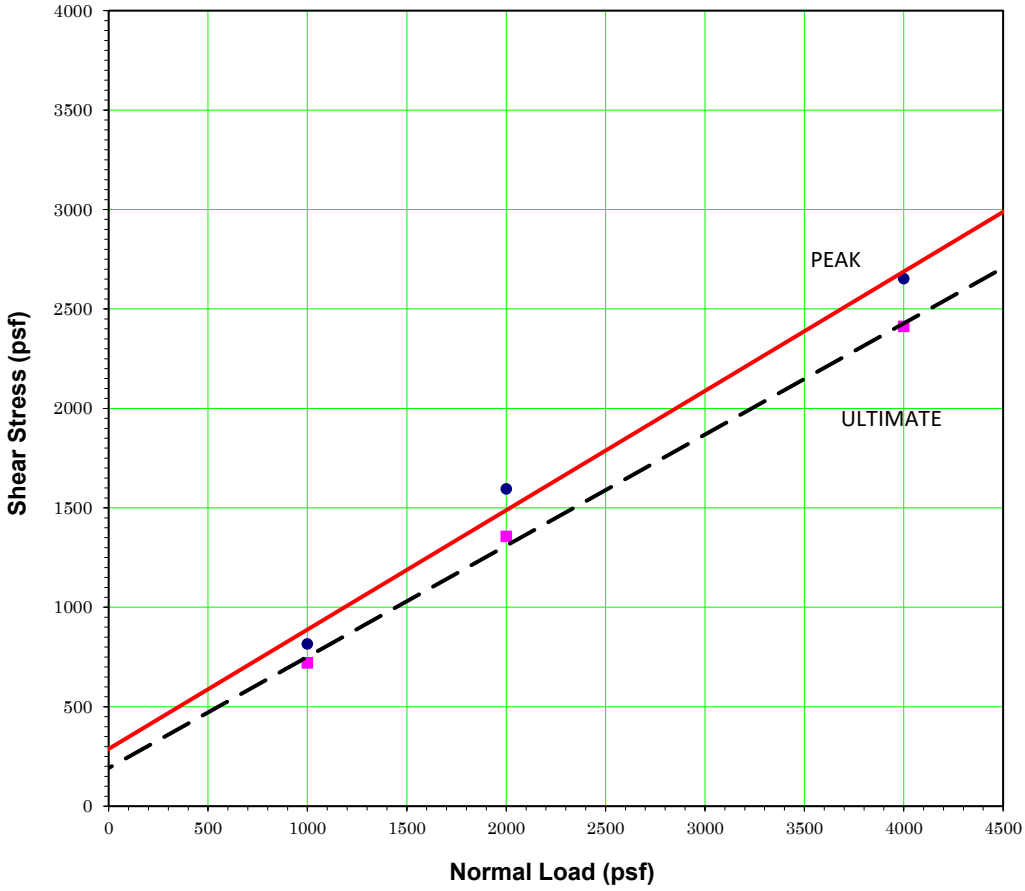
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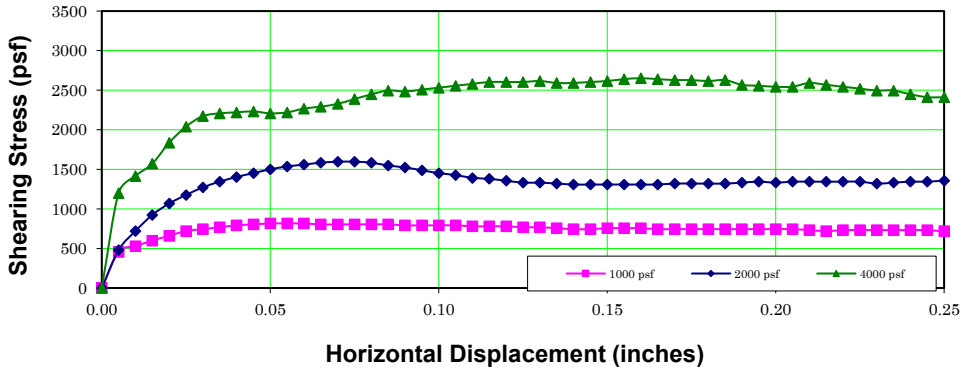
CONSOLIDATION TEST

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LANCASTER, CALIFORNIA

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DIRECT SHEAR DATA*

Sample Location: B1 at 5 feet
Material: Alluvium; Sandy SILT (ML)
Dry Density: 94.2 pcf

	Initial	Final
Moisture Content:	17.7%	28.5%
Saturation:	62%	100%

	Peak	Ultimate
ϕ Angle of Friction (degrees):	31	29
c Cohesive Strength (psf):	280	190

Test Type: Peak and Ultimate Shear Rate (in/min): 0.005

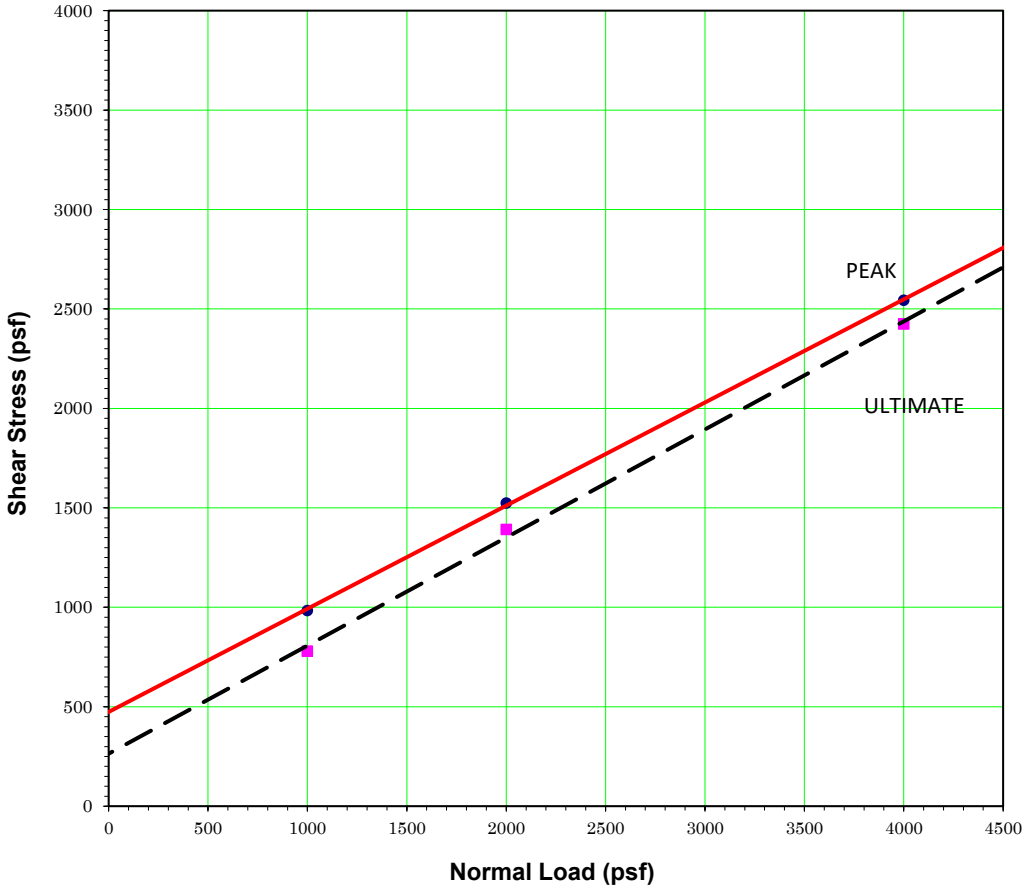
* Test Method: ASTM D-3080

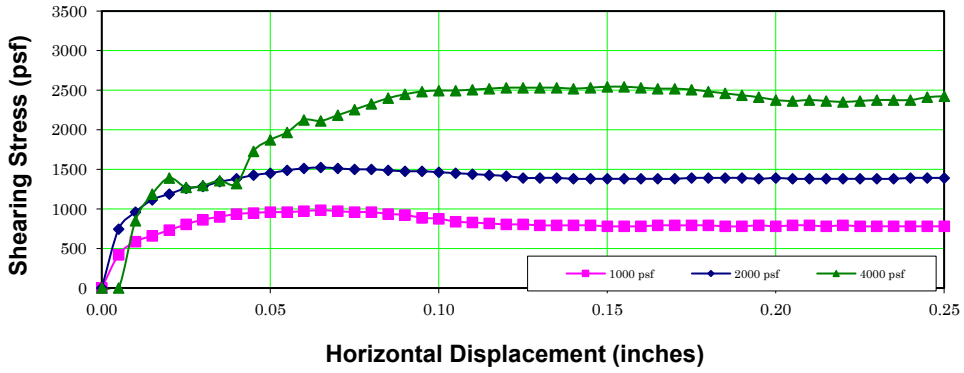
DIRECT SHEAR TEST

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DIRECT SHEAR DATA*

Sample Location: B3 at 2.5 feet
Material: Alluvium; Silty SAND (SM)
Dry Density: 112.5 pcf

	Initial	Final
Moisture Content:	1.8%	17.7%
Saturation:	10%	100%

	Peak	Ultimate
ϕ Angle of Friction (degrees):	27	29
c Cohesive Strength (psf):	470	260

Test Type: Peak and Ultimate Shear Rate (in/min): 0.005

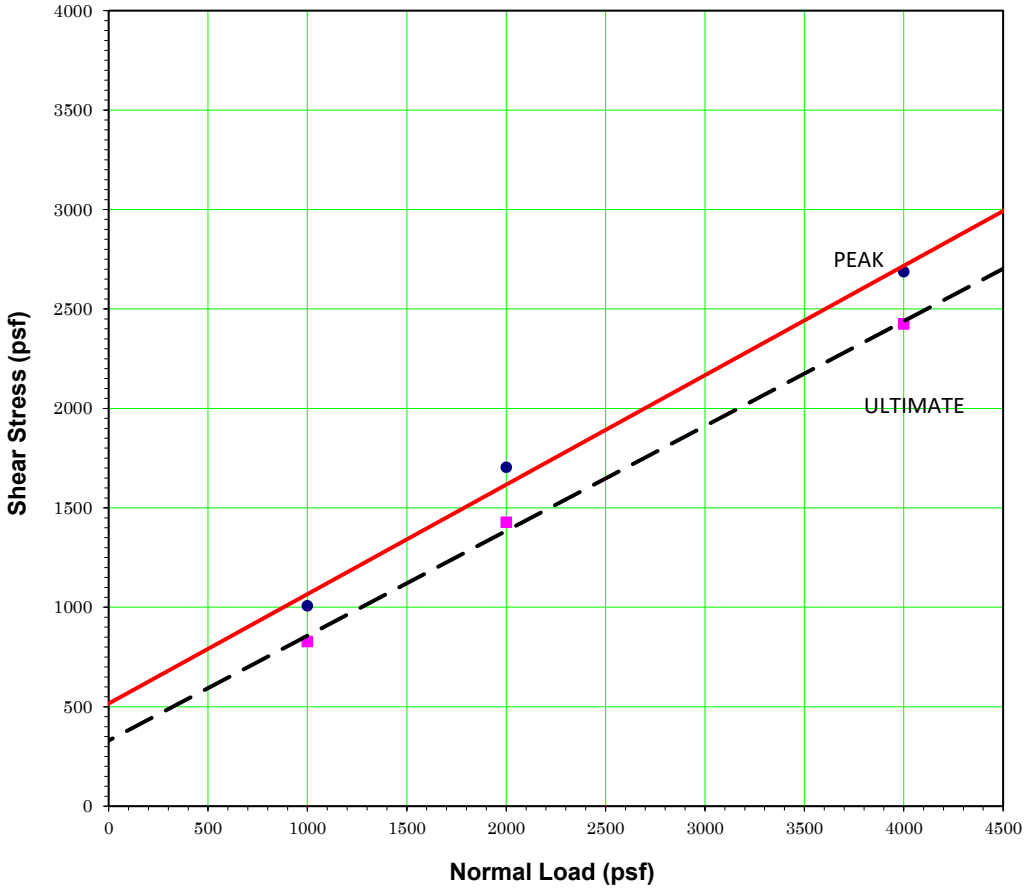
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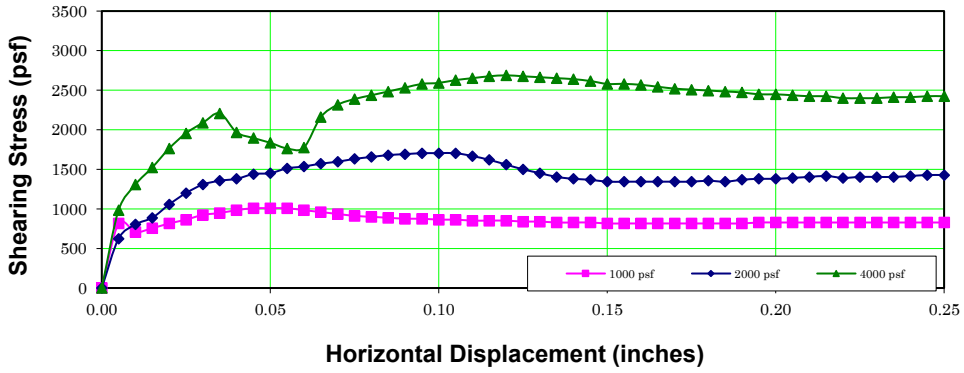
DIRECT SHEAR TEST

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90TH STREET EAST
LANCASTER, CALIFORNIA

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DIRECT SHEAR DATA*

Sample Location: B6 at 5 feet
Material: Alluvium; Silty SAND (SM)
Dry Density: 116.2 pcf

	Initial	Final
Moisture Content:	6.1%	16.0%
Saturation:	38%	100%

	Peak	Ultimate
ϕ Angle of Friction (degrees):	29	28
c Cohesive Strength (psf):	510	330

Test Type: Peak and Ultimate Shear Rate (in/min): 0.005

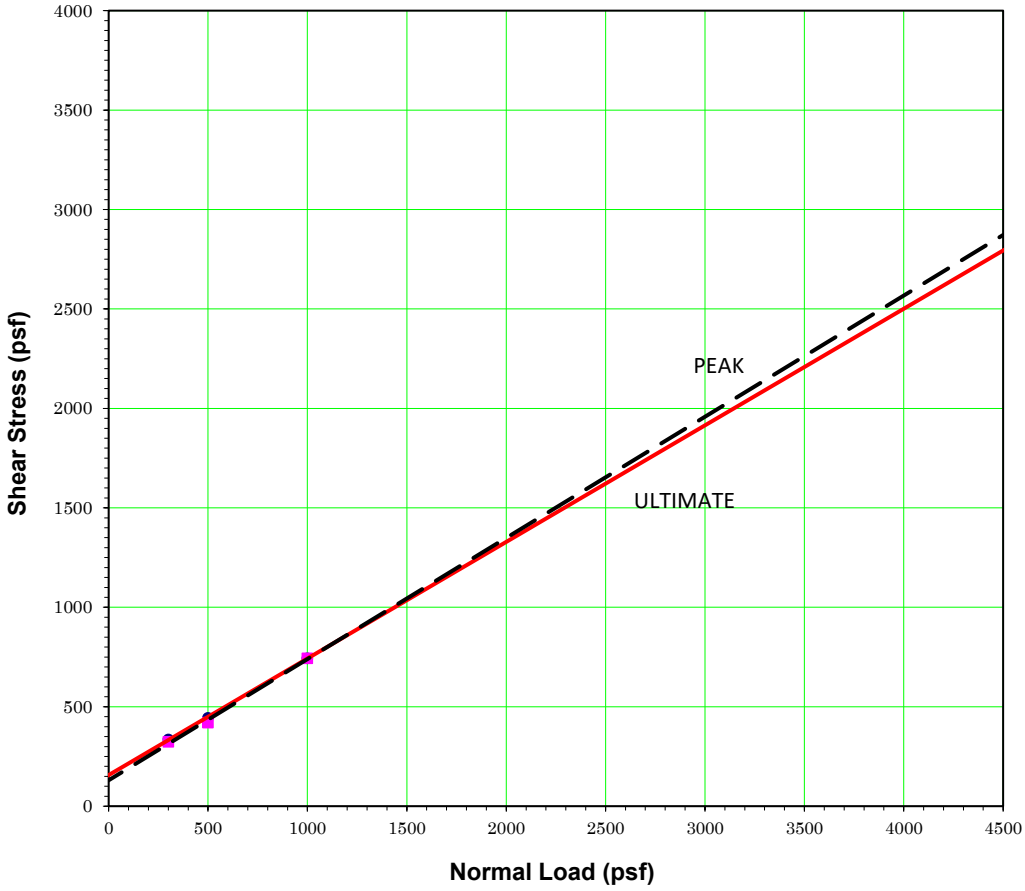
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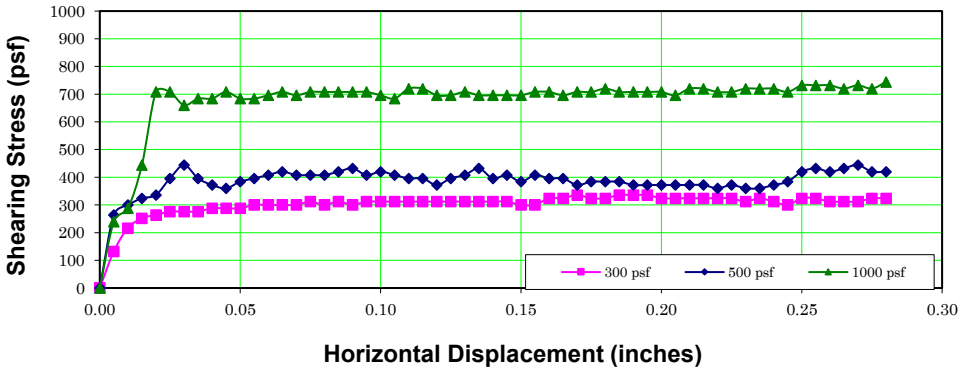
DIRECT SHEAR TEST

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LANCASTER, CALIFORNIA

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DIRECT SHEAR DATA*

Sample Location: B10 at 5 feet
Material: Alluvium; Silty poorly graded SAND (SP-SM)
Dry Density: 99.3 pcf

	Initial	Final
Moisture Content:	1.6%	25.1%
Saturation:	6%	100%

	Peak	Ultimate
ϕ Angle of Friction (degrees):	30	31
c Cohesive Strength (psf):	150	130

Test Type: Peak and Ultimate Shear Rate (in/min): 0.005

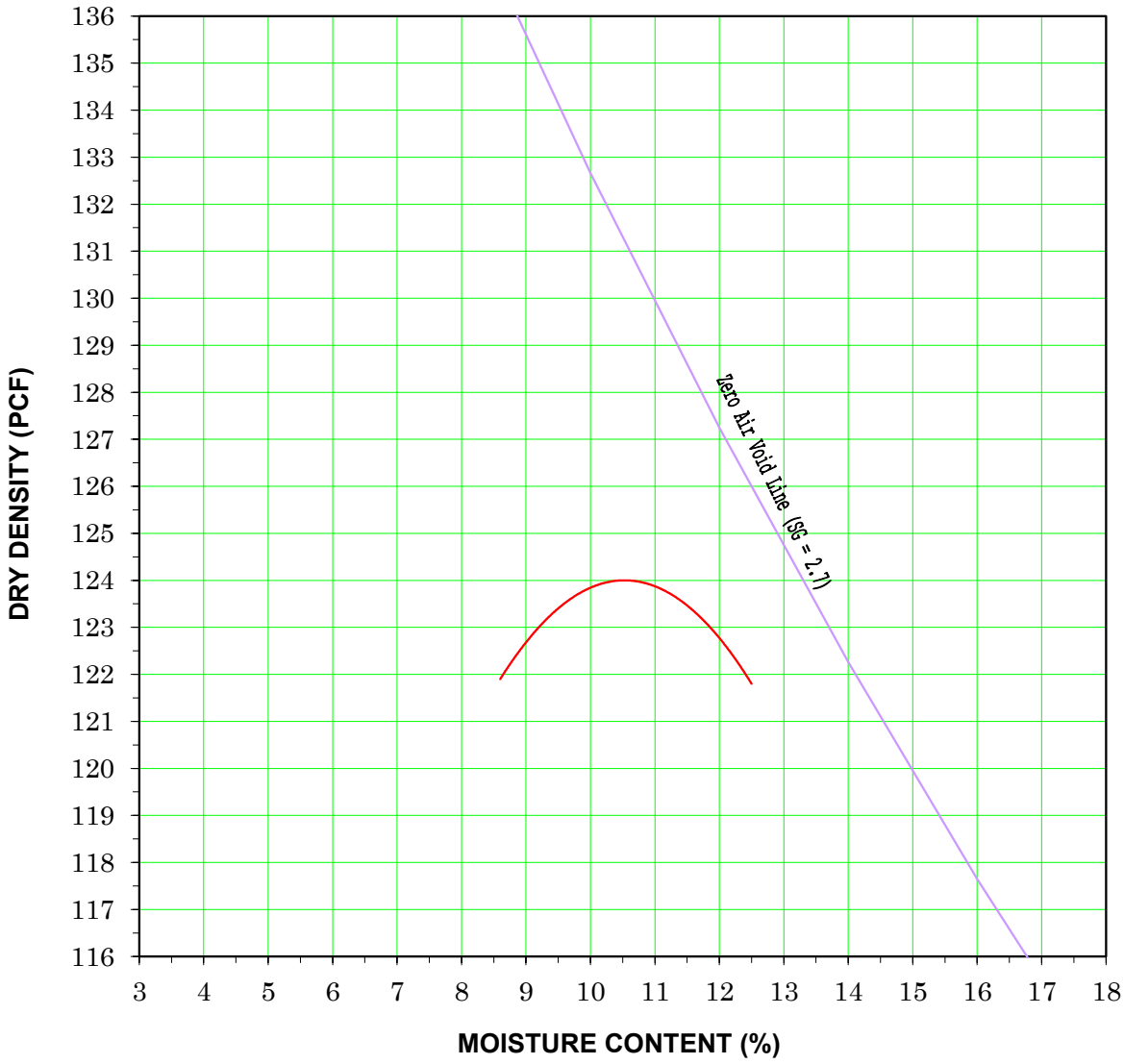
* Test Method: ASTM D-3080

DIRECT SHEAR TEST

PRONGHORN SOLAR & STORAGE
90TH STREET EAST
LANCASTER, CALIFORNIA

Earth Systems

AUGUST 2025 | 307256-001



Maximum Density - Optimum Moisture Characteristics*

Sample Location: B4 at 0 to 5 feet

Material: Silty fine SAND (SM), olive brown

Maximum Density: 124 pcf

Optimum Moisture: 10.5%

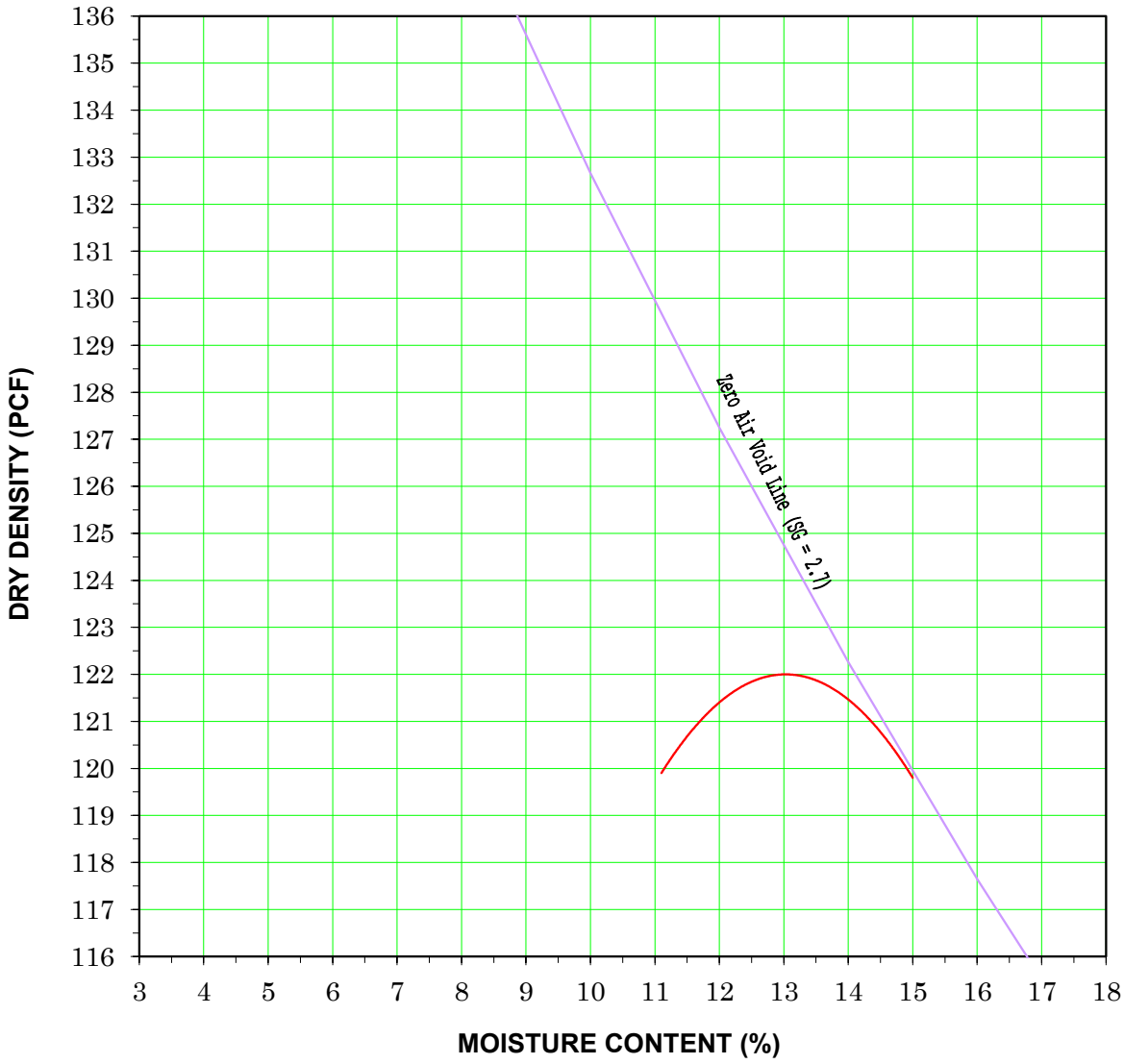
* Test Method: ASTM D-1557

MAXIMUM DENSITY - OPTIMUM MOISTURE

PRONGHORN SOLAR & STORAGE
90TH STREET EAST
LANCASTER, CALIFORNIA

Earth Systems

AUGUST 2025	307756-001



Maximum Density - Optimum Moisture Characteristics*

Sample Location: B7 at 0 to 5 feet

Material: Silty fine SAND (SP-SM), dark brown

Maximum Density: 122 pcf

Optimum Moisture: 13.0%

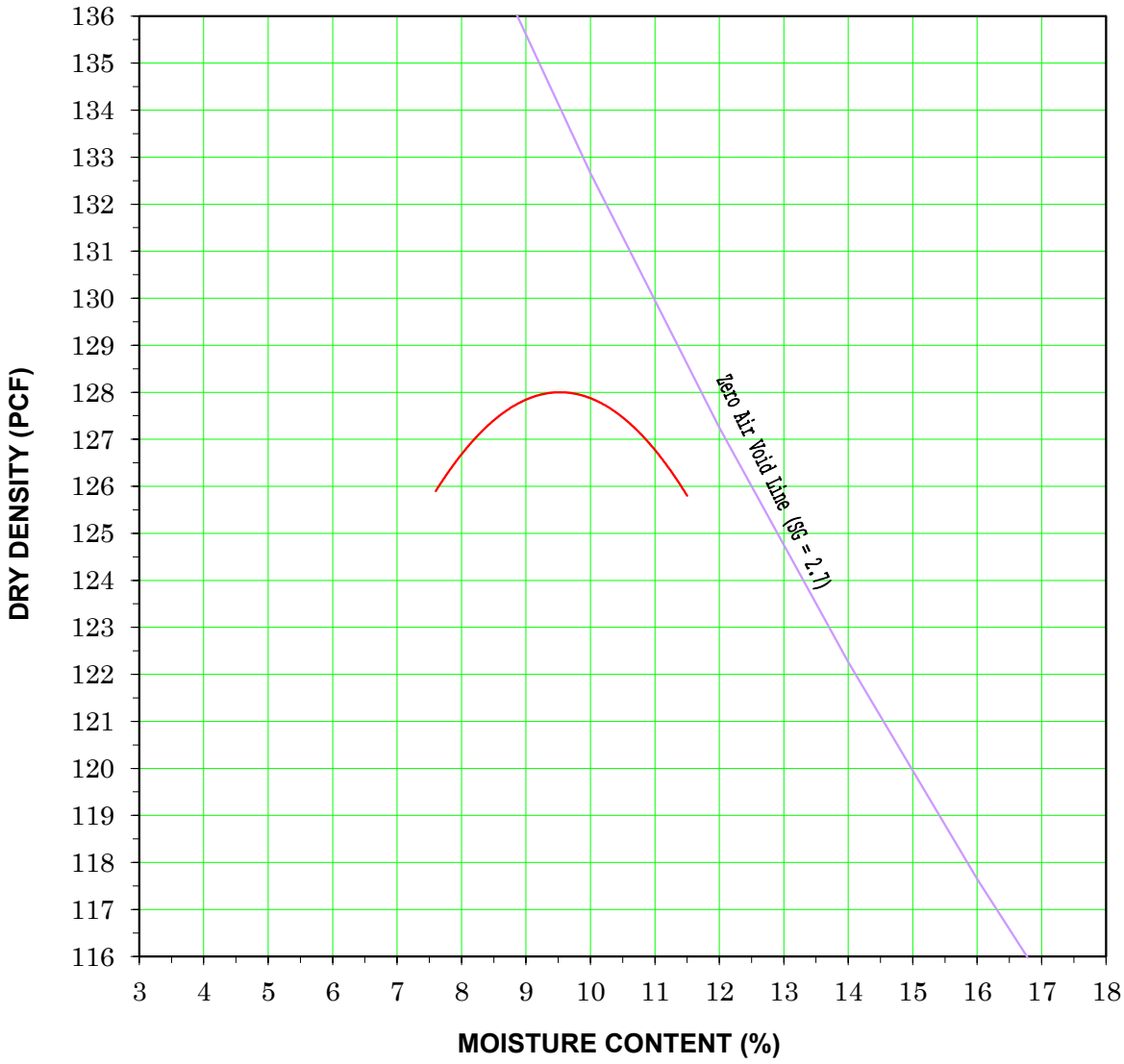
* Test Method: ASTM D-1557

MAXIMUM DENSITY - OPTIMUM MOISTURE

PRONGHORN SOLAR & STORAGE
90TH STREET EAST
LANCASTER, CALIFORNIA

Earth Systems

AUGUST 2025	307756-001



Maximum Density - Optimum Moisture Characteristics*

Sample Location: B11 at 0 to 3 feet

Material: Silty fine SAND with trace gravel (SP-SM), olive brown

Maximum Density: 128 pcf

Optimum Moisture: 9.5%

* Test Method: ASTM D-1557

MAXIMUM DENSITY - OPTIMUM MOISTURE

PRONGHORN SOLAR & STORAGE
90TH STREET EAST
LANCASTER, CALIFORNIA

Earth Systems

AUGUST 2025	307756-001

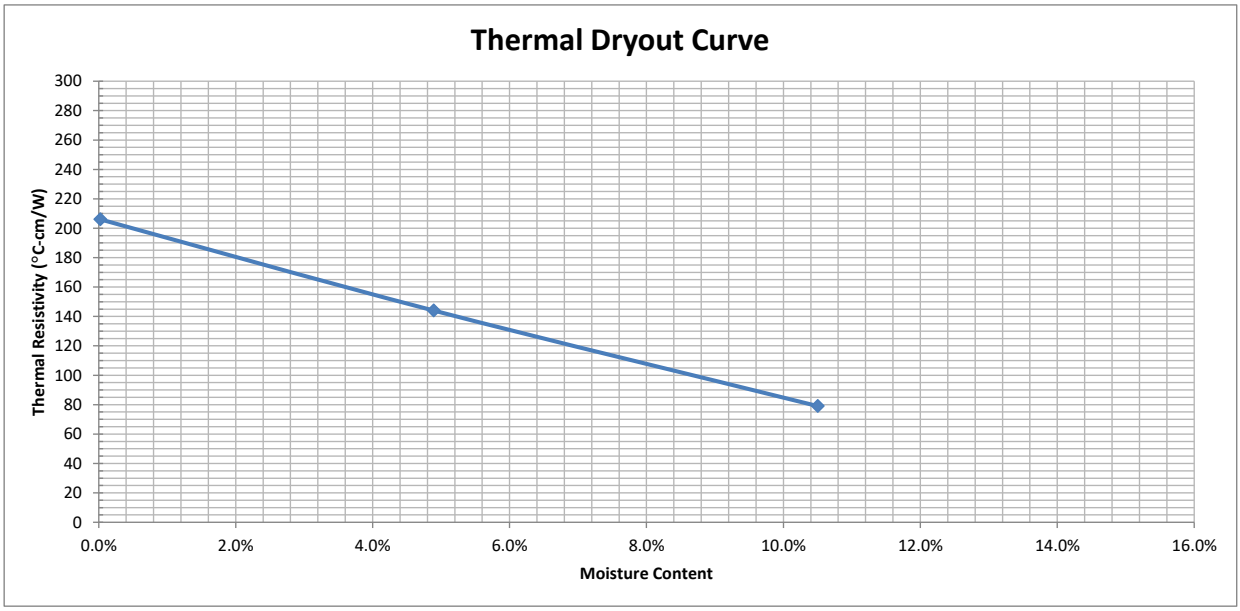
EARTH SYSTEMS
79-811B Country Club Drive | Bermuda Dunes, CA 92203-1244 | (760) 345-1588 | www.earthsystems.com

File No.: 307256-001
Report No.: 25-242
August 4, 2025

THERMAL RESISTIVITY

ASTM D5334-14 & IEEE Std 442-2017

Project: Pronghorn Solar Project
Specimen Area: B-4 @ 0-5



Sample Description	Specimen*	Dry Density (pcf)	Moisture Content	Thermal Resistivity (°C-cm/W)
Sandy Silt (ML)	Remolded to 90%	112	10.5%	79
Sandy Silt (ML)	Remolded to 90%	112	4.9%	144
Sandy Silt (ML)	Remolded to 90%	112	0.0%	206

*ASTM D1557 Relative Compaction

EARTH SYSTEMS
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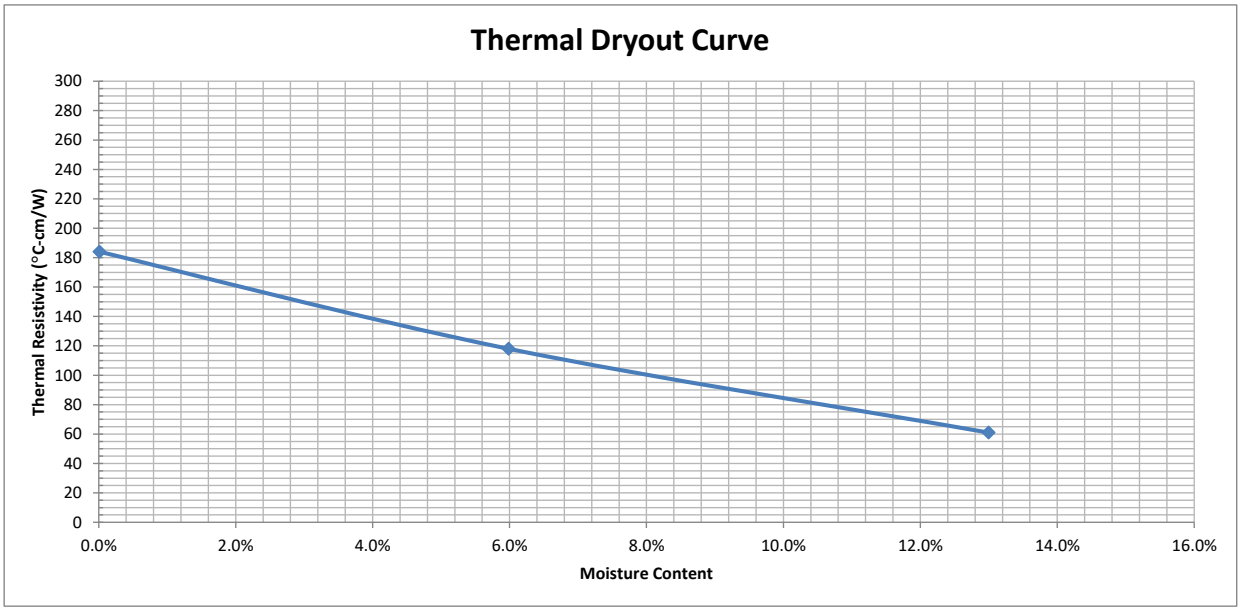
File No.: 307256-001
Report No.: 25-242

August 4, 2025

THERMAL RESISTIVITY

ASTM D5334-14 & IEEE Std 442-2017

Project: Pronghorn Solar Project
Specimen Area: B-7 @ 0-5



Sample Description	Specimen*	Dry Density (pcf)	Moisture Content	Thermal Resistivity (°C-cm/W)
Silty Sand (SM)	Remolded to 90%	110	13.0%	61
Silty Sand (SM)	Remolded to 90%	110	6.0%	118
Silty Sand (SM)	Remolded to 90%	110	0.0%	184

*ASTM D1557 Relative Compaction

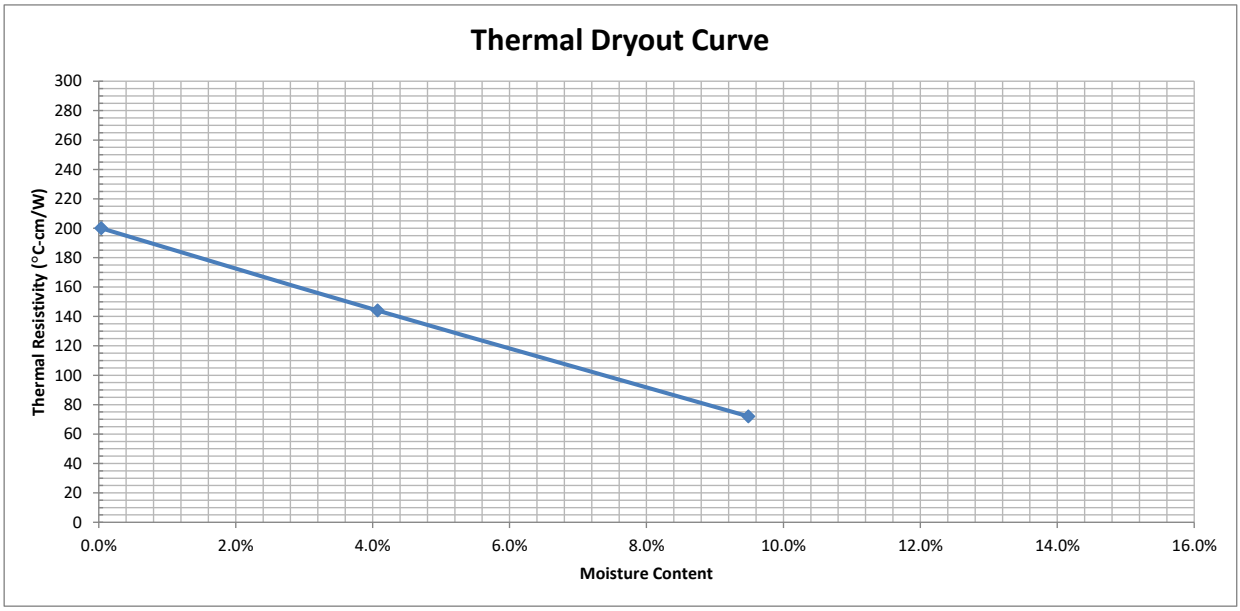
EARTH SYSTEMS
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File No.: 307256-001
Report No.: 25-242
August 4, 2025

THERMAL RESISTIVITY

ASTM D5334-14 & IEEE Std 442-2017

Project: Pronghorn Solar Project
Specimen Area: B-11 @ 0-3



Sample Description	Specimen*	Dry Density (pcf)	Moisture Content	Thermal Resistivity (°C-cm/W)
Silty Sand with Gravel (SM)	Remolded to 90%	115	9.5%	72
Silty Sand with Gravel (SM)	Remolded to 90%	115	4.1%	144
Silty Sand with Gravel (SM)	Remolded to 90%	115	0.0%	200

*ASTM D1557 Relative Compaction

Table 1 - Laboratory Tests on Soil Samples

Earth Systems Pacific - Pasadena
Pronghorn Solar and Storage
Your #LA-02201-01/307256-001, HDR Lab #25-0325LAB
1-Aug-25

Sample ID			B1 @ 2.5	B2 @ 2.5	B3 @ 2.5	B4 @ 0-5	B5 @ 3.5
Resistivity		**Units**					
as-received		ohm-cm	1,360,000	>4,400,000	1,600,000	>4,400,000	2,760,000
saturated		ohm-cm	24,000	14,800	2,440	30,000	4,400
pH			7.7	8.2	7.8	8.5	7.9
Electrical Conductivity		mS/cm	0.08	0.05	0.10	0.05	0.09
Chemical Analyses							
Cations							
calcium	Ca^{2+}	mg/kg	40	31	70	45	74
magnesium	Mg^{2+}	mg/kg	5.0	4.0	6.0	6.0	6.0
sodium	Na^{1+}	mg/kg	13	21	27	11	25
potassium	K^{1+}	mg/kg	49	18	31	20	8.0
ammonium	NH_4^{1+}	mg/kg	ND	ND	ND	ND	ND
Anions							
carbonate	CO_3^{2-}	mg/kg	18	18	17	24	ND
bicarbonate	HCO_3^{1-}	mg/kg	67	49	110	55	156
fluoride	F^{1-}	mg/kg	3.0	4.0	4.0	4.0	5.0
chloride	Cl^{1-}	mg/kg	44	7.0	12	5.0	9.0
sulfate	SO_4^{2-}	mg/kg	6.0	23	27	8.0	69
nitrate	NO_3^{1-}	mg/kg	1.0	1.0	19	3.0	4.0
phosphate	PO_4^{3-}	mg/kg	3.0	3.0	4.0	3.0	ND
Other Tests							
% moisture	H_2O	%	na	na	na	na	na
total acidity	H^{1+}	mmol/kg	na	na	na	na	na
sulfide	S^{2-}	qual	na	na	na	na	na
Redox		mV	na	na	na	na	na

Resistivity per ASTM G187, pH per ASTM G51, Cations per ASTM D6919, Anions per ASTM D4327, and Alkalinity per APHA 2320-B.

Electrical conductivity in millisiemens/cm and chemical analyses were made on a 1:5 soil-to-water extract.

mg/kg = milligrams per kilogram (parts per million) of dry soil.

Redox = oxidation-reduction potential in millivolts

ND = not detected

na = not analyzed

431 West Baseline Road · Claremont, CA 91711
Phone: 909.962.5501

Table 1 - Laboratory Tests on Soil Samples

Earth Systems Pacific - Pasadena
Pronghorn Solar and Storage
Your #LA-02201-01/307256-001, HDR Lab #25-0325LAB
1-Aug-25

Sample ID			B6 @ 2.5	B7 @ 0-5	B8 @ 2.5	B9 @ 2.5	B10 @ 2.5
Resistivity		**Units**					
as-received		ohm-cm	9,200	>4,400,000	25,200	>4,400,000	>4,400,000
saturated		ohm-cm	3,560	16,000	4,800	12,400	9,600
pH			8.0	8.5	8.2	8.2	8.0
Electrical Conductivity		mS/cm	0.11	0.06	0.07	0.05	0.06
Chemical Analyses							
Cations							
calcium	Ca^{2+}	mg/kg	101	84	60	46	54
magnesium	Mg^{2+}	mg/kg	7.0	7.0	5.0	4.0	4.0
sodium	Na^{1+}	mg/kg	35	12	22	17	15
potassium	K^{1+}	mg/kg	10	27	6.0	4.0	6.0
ammonium	NH_4^{1+}	mg/kg	ND	ND	ND	ND	ND
Anions							
carbonate	CO_3^{2-}	mg/kg	21	29	18	ND	ND
bicarbonate	HCO_3^{1-}	mg/kg	180	189	98	101	113
fluoride	F^{1-}	mg/kg	7.0	4.0	6.0	4.0	3.0
chloride	Cl^{1-}	mg/kg	7.0	5.0	6.0	6.0	11
sulfate	SO_4^{2-}	mg/kg	72	9.0	25	16	13
nitrate	NO_3^{1-}	mg/kg	4.0	1.0	4.0	2.0	5.0
phosphate	PO_4^{3-}	mg/kg	ND	4.0	3.0	4.0	4.0
Other Tests							
% moisture	H_2O	%	na	na	na	na	na
total acidity	H^{1+}	mmol/kg	na	na	na	na	na
sulfide	S^{2-}	qual	na	na	na	na	na
Redox		mV	na	na	na	na	na

Resistivity per ASTM G187, pH per ASTM G51, Cations per ASTM D6919, Anions per ASTM D4327, and Alkalinity per APHA 2320-B.

Electrical conductivity in millisiemens/cm and chemical analyses were made on a 1:5 soil-to-water extract.

mg/kg = milligrams per kilogram (parts per million) of dry soil.

Redox = oxidation-reduction potential in millivolts

ND = not detected

na = not analyzed

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Phone: 909.962.5501

Table 1 - Laboratory Tests on Soil Samples

Earth Systems Pacific - Pasadena
Pronghorn Solar and Storage
Your #LA-02201-01/307256-001, HDR Lab #25-0325LAB
1-Aug-25

Sample ID			B11 @ 0-3	B12 @ 2.5
Resistivity		**Units**		
as-received		ohm-cm	140,000	80,000
saturated		ohm-cm	2,800	3,520
pH			7.9	7.9
Electrical Conductivity		mS/cm	0.13	0.11
Chemical Analyses				
Cations				
calcium	Ca^{2+}	mg/kg	104	91
magnesium	Mg^{2+}	mg/kg	9.0	7.0
sodium	Na^{1+}	mg/kg	30	26
potassium	K^{1+}	mg/kg	14	6.0
ammonium	NH_4^{1+}	mg/kg	ND	ND
Anions				
carbonate	CO_3^{2-}	mg/kg	ND	ND
bicarbonate	HCO_3^{1-}	mg/kg	165	134
fluoride	F^{1-}	mg/kg	5.0	4.0
chloride	Cl^{1-}	mg/kg	12	9.0
sulfate	SO_4^{2-}	mg/kg	72	99
nitrate	NO_3^{1-}	mg/kg	24	11
phosphate	PO_4^{3-}	mg/kg	5.0	3.0
Other Tests				
% moisture	H_2O	%	na	na
total acidity	H^{1+}	mmol/kg	na	na
sulfide	S^{2-}	qual	na	na
Redox		mV	na	na

Resistivity per ASTM G187, pH per ASTM G51, Cations per ASTM D6919, Anions per ASTM D4327, and Alkalinity per APHA 2320-B.

Electrical conductivity in millisiemens/cm and chemical analyses were made on a 1:5 soil-to-water extract.

mg/kg = milligrams per kilogram (parts per million) of dry soil.

Redox = oxidation-reduction potential in millivolts

ND = not detected

na = not analyzed

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TABLE B-1
SUMMARY OF EXPANSION INDEX* TESTING

Sample Location	Boring and Depth	Soil Description	Expansion Index (EI)	Potential Expansion
Proposed Substation –	B4 at 0 to 5 feet	Silty SAND (SM)	1	Very Low

*ASTM D 4829 Test Method

APPENDIX C

Seismic Data

Announcement
ASCE 7-22 is now available.

Proposed Substation and BESS

Latitude, Longitude: 34.69088077, -117.96897818



Date	7/29/2025, 10:54:01 AM
Design Code Reference Document	ASCE7-16
Risk Category	II
Site Class	D

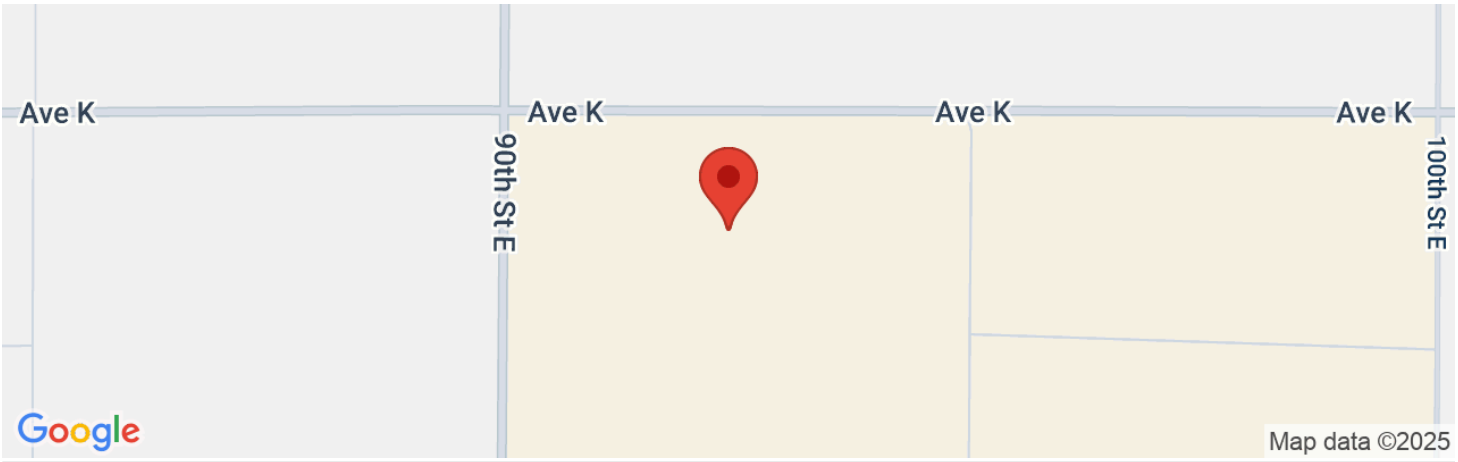
Type	Value	Description
S_S	1.308	MCE_R ground motion. (for 0.2 second period)
S_1	0.529	MCE_R ground motion. (for 1.0s period)
S_{MS}	1.308	Site-modified spectral acceleration value
S_{M1}	null -See Section 11.4.8	Site-modified spectral acceleration value
S_{DS}	0.872	Numeric seismic design value at 0.2 second SA
S_{D1}	null -See Section 11.4.8	Numeric seismic design value at 1.0 second SA

Type	Value	Description
SDC	null -See Section 11.4.8	Seismic design category
F_a	1	Site amplification factor at 0.2 second
F_v	null -See Section 11.4.8	Site amplification factor at 1.0 second
PGA	0.5	MCE_G peak ground acceleration
F_{PGA}	1.1	Site amplification factor at PGA
PGA_M	0.55	Site modified peak ground acceleration
T_L	12	Long-period transition period in seconds
SsRT	1.308	Probabilistic risk-targeted ground motion. (0.2 second)
SsUH	1.442	Factored uniform-hazard (2% probability of exceedance in 50 years) spectral acceleration
SsD	1.5	Factored deterministic acceleration value. (0.2 second)
S1RT	0.529	Probabilistic risk-targeted ground motion. (1.0 second)
S1UH	0.591	Factored uniform-hazard (2% probability of exceedance in 50 years) spectral acceleration.
S1D	0.6	Factored deterministic acceleration value. (1.0 second)
PGAd	0.5	Factored deterministic acceleration value. (Peak Ground Acceleration)
PGA_{UH}	0.585	Uniform-hazard (2% probability of exceedance in 50 years) Peak Ground Acceleration
C_{RS}	0.907	Mapped value of the risk coefficient at short periods
C_{R1}	0.894	Mapped value of the risk coefficient at a period of 1 s
C_V	1.362	Vertical coefficient

Announcement
ASCE 7-22 is now available.

Proposed North Solar Farm

Latitude, Longitude: 34.67362171, -117.96544148



Date	7/29/2025, 10:39:42 AM
Design Code Reference Document	ASCE7-16
Risk Category	II
Site Class	D

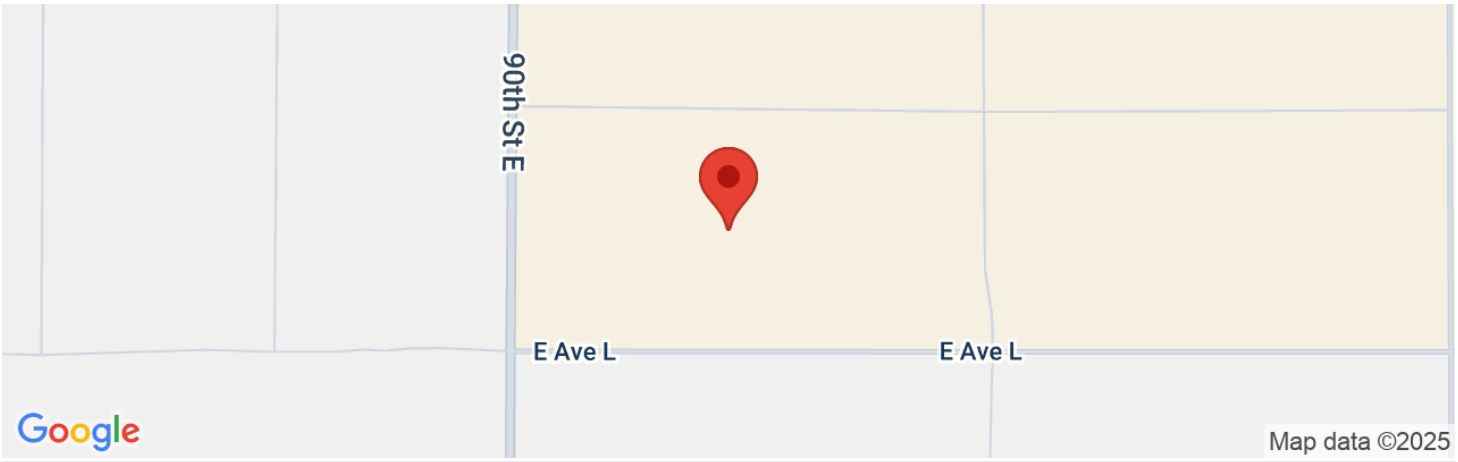
Type	Value	Description
S_S	1.374	MCE_R ground motion. (for 0.2 second period)
S_1	0.556	MCE_R ground motion. (for 1.0s period)
S_{MS}	1.374	Site-modified spectral acceleration value
S_{M1}	null -See Section 11.4.8	Site-modified spectral acceleration value
S_{DS}	0.916	Numeric seismic design value at 0.2 second SA
S_{D1}	null -See Section 11.4.8	Numeric seismic design value at 1.0 second SA

Type	Value	Description
SDC	null -See Section 11.4.8	Seismic design category
F_a	1	Site amplification factor at 0.2 second
F_v	null -See Section 11.4.8	Site amplification factor at 1.0 second
PGA	0.5	MCE_G peak ground acceleration
F_{PGA}	1.1	Site amplification factor at PGA
PGA_M	0.55	Site modified peak ground acceleration
T_L	12	Long-period transition period in seconds
SsRT	1.374	Probabilistic risk-targeted ground motion. (0.2 second)
SsUH	1.521	Factored uniform-hazard (2% probability of exceedance in 50 years) spectral acceleration
SsD	1.5	Factored deterministic acceleration value. (0.2 second)
S1RT	0.556	Probabilistic risk-targeted ground motion. (1.0 second)
S1UH	0.623	Factored uniform-hazard (2% probability of exceedance in 50 years) spectral acceleration.
S1D	0.6	Factored deterministic acceleration value. (1.0 second)
PGAd	0.5	Factored deterministic acceleration value. (Peak Ground Acceleration)
PGA_{UH}	0.613	Uniform-hazard (2% probability of exceedance in 50 years) Peak Ground Acceleration
C_{RS}	0.903	Mapped value of the risk coefficient at short periods
C_{R1}	0.891	Mapped value of the risk coefficient at a period of 1 s
C_V	1.375	Vertical coefficient

Announcement
ASCE 7-22 is now available.

Proposed South Solar Farm

Latitude, Longitude: 34.66260930, -117.96569897



Date	7/29/2025, 10:44:30 AM
Design Code Reference Document	ASCE7-16
Risk Category	II
Site Class	D

Type	Value	Description
S_S	1.421	MCE_R ground motion. (for 0.2 second period)
S_1	0.575	MCE_R ground motion. (for 1.0s period)
S_{MS}	1.421	Site-modified spectral acceleration value
S_{M1}	null -See Section 11.4.8	Site-modified spectral acceleration value
S_{DS}	0.947	Numeric seismic design value at 0.2 second SA
S_{D1}	null -See Section 11.4.8	Numeric seismic design value at 1.0 second SA

Type	Value	Description
SDC	null -See Section 11.4.8	Seismic design category
F_a	1	Site amplification factor at 0.2 second
F_v	null -See Section 11.4.8	Site amplification factor at 1.0 second
PGA	0.5	MCE_G peak ground acceleration
F_{PGA}	1.1	Site amplification factor at PGA
PGA_M	0.55	Site modified peak ground acceleration
T_L	12	Long-period transition period in seconds
SsRT	1.421	Probabilistic risk-targeted ground motion. (0.2 second)
SsUH	1.578	Factored uniform-hazard (2% probability of exceedance in 50 years) spectral acceleration
SsD	1.5	Factored deterministic acceleration value. (0.2 second)
S1RT	0.575	Probabilistic risk-targeted ground motion. (1.0 second)
S1UH	0.647	Factored uniform-hazard (2% probability of exceedance in 50 years) spectral acceleration.
S1D	0.6	Factored deterministic acceleration value. (1.0 second)
PGAd	0.5	Factored deterministic acceleration value. (Peak Ground Acceleration)
PGA_{UH}	0.634	Uniform-hazard (2% probability of exceedance in 50 years) Peak Ground Acceleration
C_{RS}	0.9	Mapped value of the risk coefficient at short periods
C_{R1}	0.89	Mapped value of the risk coefficient at a period of 1 s
C_V	1.384	Vertical coefficient

U.S. Geological Survey - Earthquake Hazards Program

Unified Hazard Tool

Please do not use this tool to obtain ground motion parameter values for the design code reference documents covered by the U.S. Seismic Design Maps web tools (e.g., the International Building Code and the ASCE 7 or 41 Standard). The values returned by the two applications are not identical.

Please also see the new USGS Earthquake Hazard Toolbox for access to the most recent NSHMs for the conterminous U.S. and Hawaii.

Input

Edition

Dynamic: Conterminous U.S. 2014 (u…

Spectral Period

Peak Ground Acceleration

Latitude

Decimal degrees

34.69088077

Time Horizon

Return period in years

475

Longitude

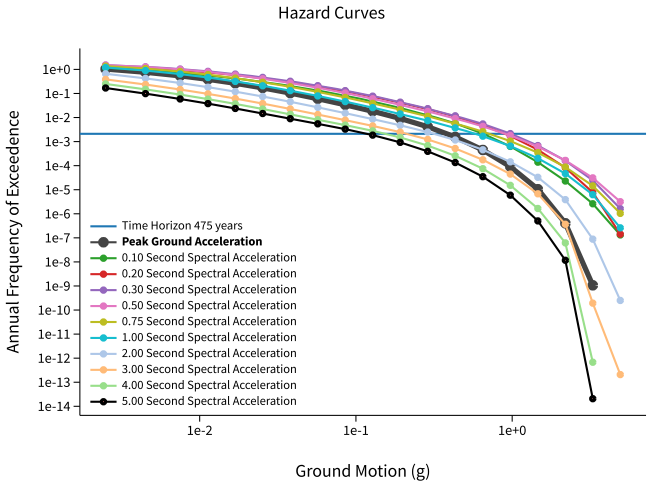
Decimal degrees, negative values for western longitudes

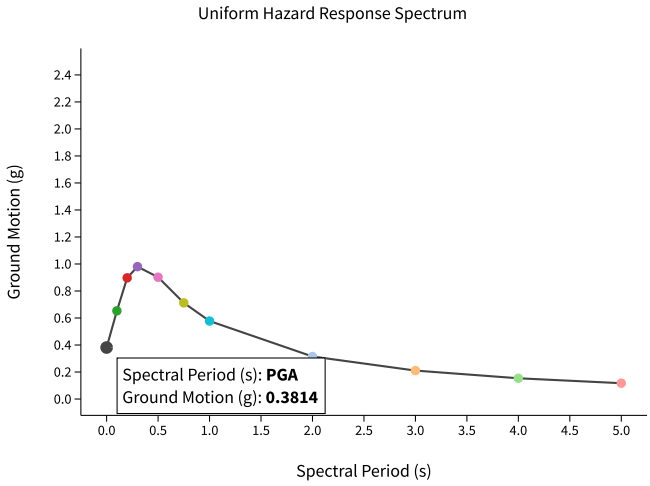
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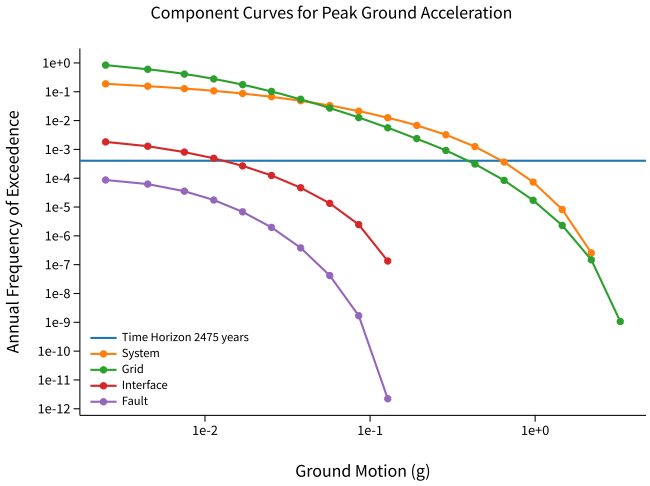
Site Class

259 m/s (Site class D)

Hazard Curve





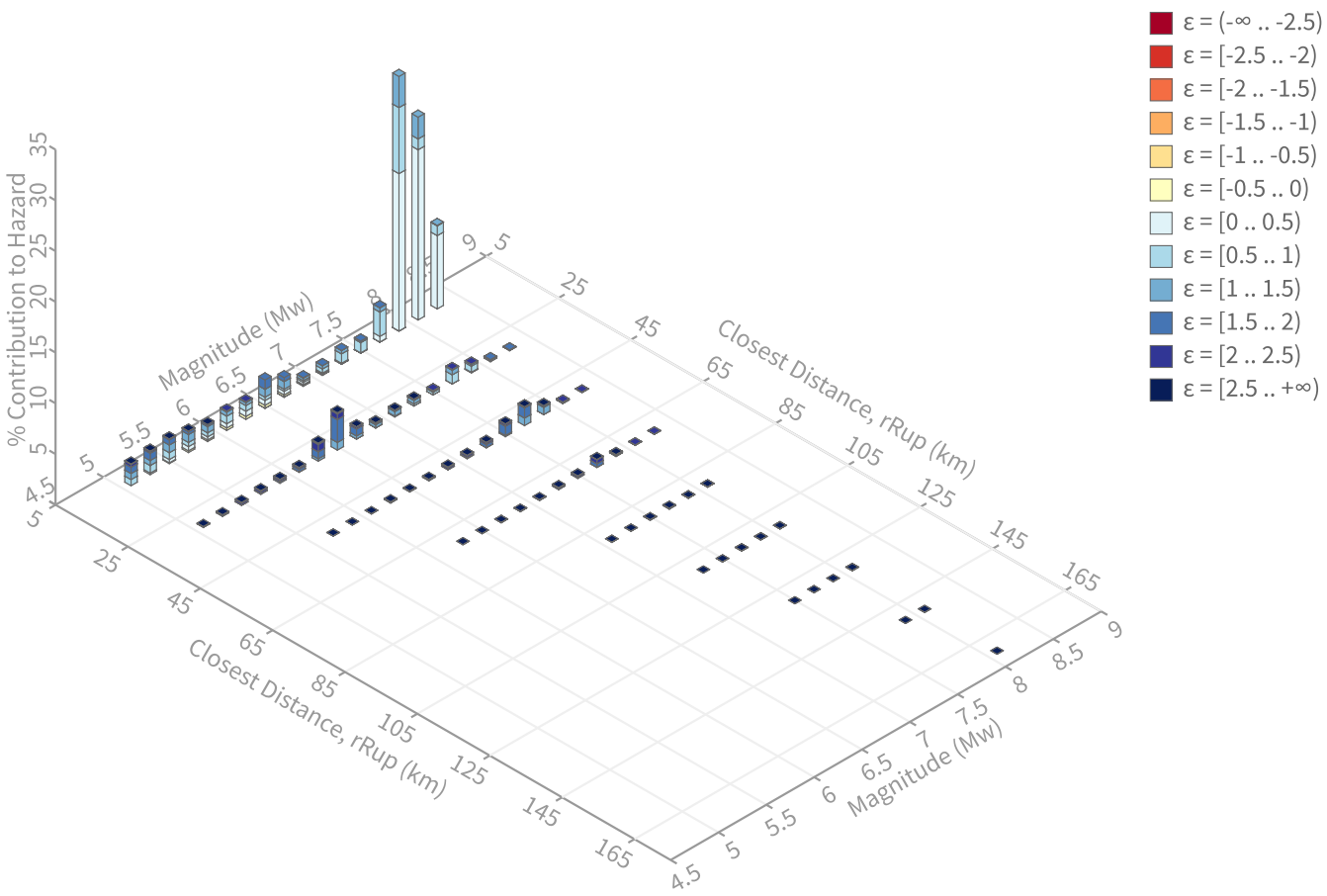


View Raw Data

Deaggregation

Component

Total



Summary statistics for, Deaggregation: Total

Deaggregation targets

Return period: 475 yrs
Exceedance rate: 0.0021052632 yr^{-1}
PGA ground motion: 0.38142891 g

Recovered targets

Return period: 503.24905 yrs
Exceedance rate: 0.0019870877 yr^{-1}

Totals

Binned: 100 %
Residual: 0 %
Trace: 0.19 %

Mean (over all sources)

m: 7.38
r: 21.45 km
ε_0: 0.83 σ

Mode (largest m-r bin)

m: 7.9
r: 19.75 km
ε_0: 0.55 σ
Contribution: 25.08 %

Mode (largest m-r-ε_0 bin)

m: 8.1
r: 19.75 km
ε_0: 0.34 σ
Contribution: 16.77 %

Discretization

r: min = 0.0, max = 1000.0, Δ = 20.0 km
m: min = 4.4, max = 9.4, Δ = 0.2
ε: min = -3.0, max = 3.0, Δ = 0.5 σ

Epsilon keys

ε0: [-∞ .. -2.5)
ε1: [-2.5 .. -2.0)
ε2: [-2.0 .. -1.5)
ε3: [-1.5 .. -1.0)
ε4: [-1.0 .. -0.5)
ε5: [-0.5 .. 0.0)
ε6: [0.0 .. 0.5)
ε7: [0.5 .. 1.0)
ε8: [1.0 .. 1.5)
ε9: [1.5 .. 2.0)
ε10: [2.0 .. 2.5)
ε11: [2.5 .. +∞]

Deaggregation Contributors

Source Set ↳ Source	Type	r	m	ε_0	lon	lat	az	%
UC33brAvg_FM32	System							39.80
San Andreas (Mojave S) [6]		19.75	7.94	0.53	118.065°W	34.532°N	206.42	30.45
San Andreas (Mojave S) [8]		21.13	6.83	1.33	117.992°W	34.502°N	185.79	1.43
San Andreas (Mojave S) [9]		24.22	6.74	1.56	117.929°W	34.476°N	171.24	1.20
UC33brAvg_FM31	System							39.58
San Andreas (Mojave S) [6]		19.75	7.94	0.53	118.065°W	34.532°N	206.42	30.36
San Andreas (Mojave S) [8]		21.13	6.78	1.37	117.992°W	34.502°N	185.79	1.42
San Andreas (Mojave S) [9]		24.22	6.70	1.59	117.929°W	34.476°N	171.24	1.23
UC33brAvg_FM31 (opt)	Grid							10.32
PointSourceFinite: -117.969, 34.722		6.11	5.68	0.40	117.969°W	34.722°N	0.00	1.12
PointSourceFinite: -117.969, 34.722		6.11	5.68	0.40	117.969°W	34.722°N	0.00	1.11
UC33brAvg_FM32 (opt)	Grid							10.31
PointSourceFinite: -117.969, 34.722		6.11	5.68	0.40	117.969°W	34.722°N	0.00	1.12
PointSourceFinite: -117.969, 34.722		6.11	5.68	0.40	117.969°W	34.722°N	0.00	1.11

U.S. Geological Survey - Earthquake Hazards Program

Unified Hazard Tool

Please do not use this tool to obtain ground motion parameter values for the design code reference documents covered by the U.S. Seismic Design Maps web tools (e.g., the International Building Code and the ASCE 7 or 41 Standard). The values returned by the two applications are not identical.

Please also see the new USGS Earthquake Hazard Toolbox for access to the most recent NSHMs for the conterminous U.S. and Hawaii.

Input

Edition

Dynamic: Conterminous U.S. 2014 (u…

Spectral Period

Peak Ground Acceleration

Latitude

Decimal degrees

34.67362171

Time Horizon

Return period in years

475

Longitude

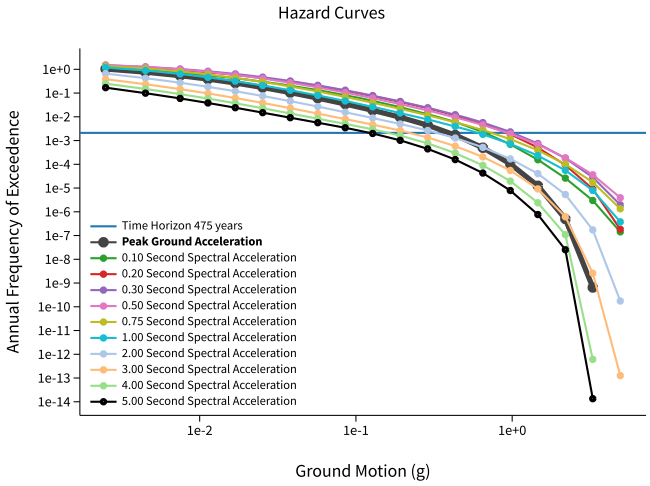
Decimal degrees, negative values for western longitudes

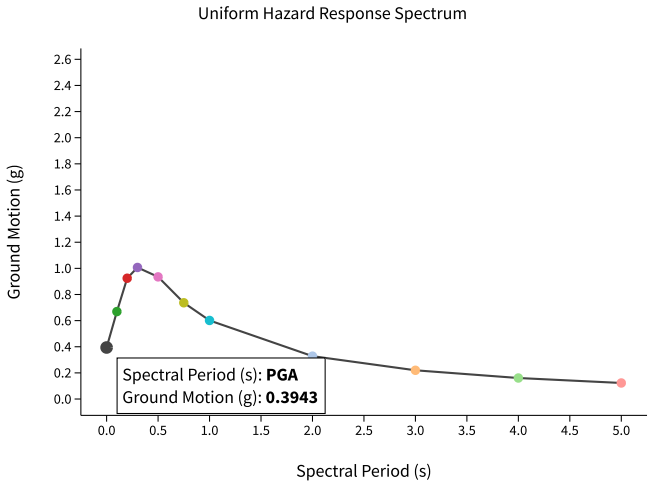
-117.96544148

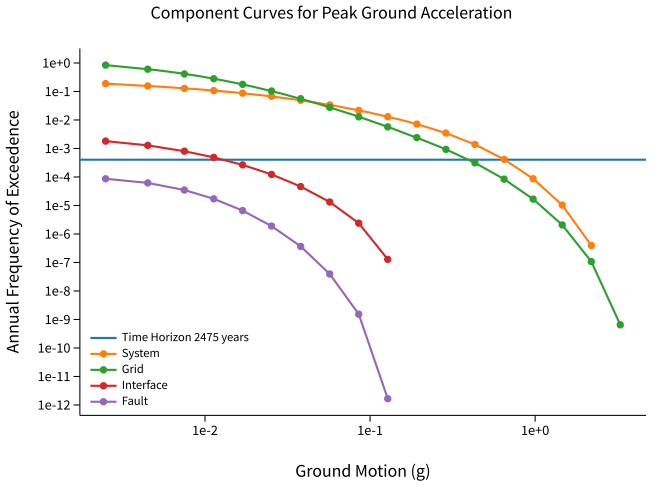
Site Class

259 m/s (Site class D)

Hazard Curve





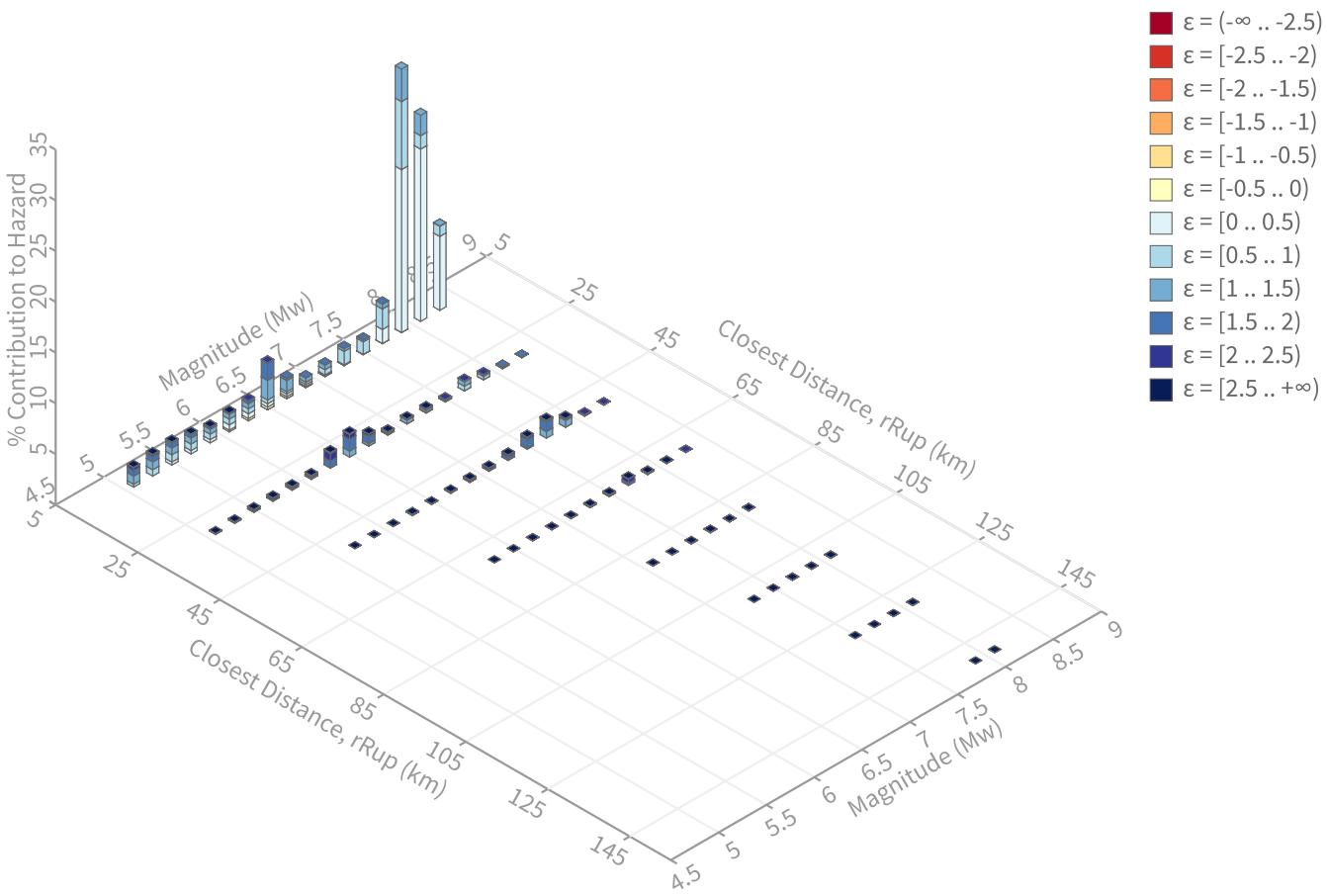


View Raw Data

Deaggregation

Component

Total



Summary statistics for, Deaggregation: Total

Deaggregation targets

Return period: 475 yrs
Exceedance rate: 0.0021052632 yr^{-1}
PGA ground motion: 0.3943061 g

Recovered targets

Return period: 505.75545 yrs
Exceedance rate: 0.0019772402 yr^{-1}

Totals

Binned: 100 %
Residual: 0 %
Trace: 0.18 %

Mean (over all sources)

m: 7.4
r: 20.11 km
ε_0: 0.83 σ

Mode (largest m-r bin)

m: 7.9
r: 18.19 km
ε_0: 0.54 σ
Contribution: 25.95 %

Mode (largest m-r-ε_0 bin)

m: 8.1
r: 18.18 km
ε_0: 0.33 σ
Contribution: 16.98 %

Discretization

r: min = 0.0, max = 1000.0, Δ = 20.0 km
m: min = 4.4, max = 9.4, Δ = 0.2
ε: min = -3.0, max = 3.0, Δ = 0.5 σ

Epsilon keys

ε0: [-∞ .. -2.5)
ε1: [-2.5 .. -2.0)
ε2: [-2.0 .. -1.5)
ε3: [-1.5 .. -1.0)
ε4: [-1.0 .. -0.5)
ε5: [-0.5 .. 0.0)
ε6: [0.0 .. 0.5)
ε7: [0.5 .. 1.0)
ε8: [1.0 .. 1.5)
ε9: [1.5 .. 2.0)
ε10: [2.0 .. 2.5)
ε11: [2.5 .. +∞]

Deaggregation Contributors

Source Set ↳ Source	Type	r	m	ε_0	lon	lat	az	%
UC33brAvg_FM32	System							40.65
San Andreas (Mojave S) [6]		18.18	7.93	0.52	118.056°W	34.528°N	207.09	31.12
San Andreas (Mojave S) [8]		19.26	6.81	1.29	117.992°W	34.502°N	187.33	1.61
San Andreas (Mojave S) [9]		22.28	6.72	1.52	117.929°W	34.476°N	171.31	1.35
UC33brAvg_FM31	System							40.45
San Andreas (Mojave S) [6]		18.18	7.93	0.52	118.056°W	34.528°N	207.09	31.03
San Andreas (Mojave S) [8]		19.26	6.76	1.32	117.992°W	34.502°N	187.33	1.61
San Andreas (Mojave S) [9]		22.28	6.69	1.55	117.929°W	34.476°N	171.31	1.39
UC33brAvg_FM31 (opt)	Grid							9.46
UC33brAvg_FM32 (opt)	Grid							9.45

U.S. Geological Survey - Earthquake Hazards Program

Unified Hazard Tool

Please do not use this tool to obtain ground motion parameter values for the design code reference documents covered by the U.S. Seismic Design Maps web tools (e.g., the International Building Code and the ASCE 7 or 41 Standard). The values returned by the two applications are not identical.

Please also see the new USGS Earthquake Hazard Toolbox for access to the most recent NSHMs for the conterminous U.S. and Hawaii.

Input

Edition

Dynamic: Conterminous U.S. 2014 (u…

Spectral Period

Peak Ground Acceleration

Latitude

Decimal degrees

34.6626093

Time Horizon

Return period in years

475

Longitude

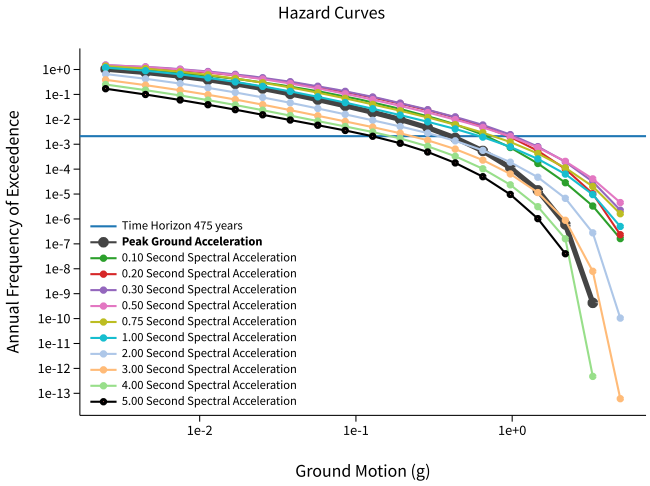
Decimal degrees, negative values for western longitudes

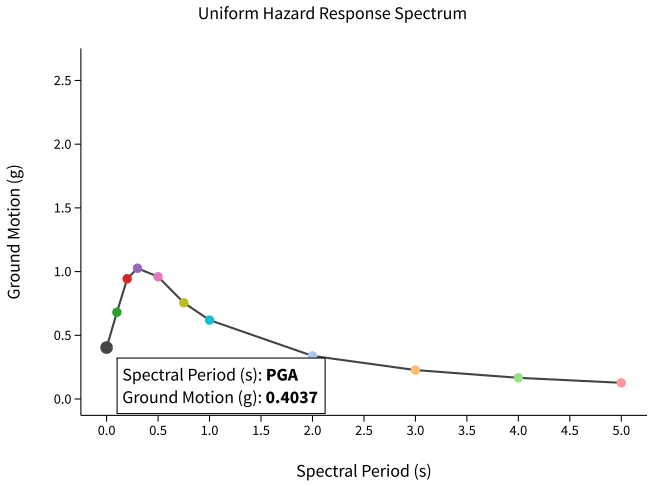
-117.96569897

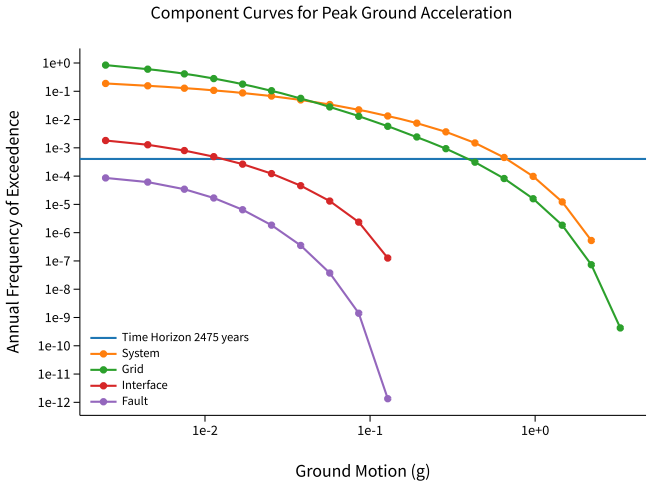
Site Class

259 m/s (Site class D)

Hazard Curve





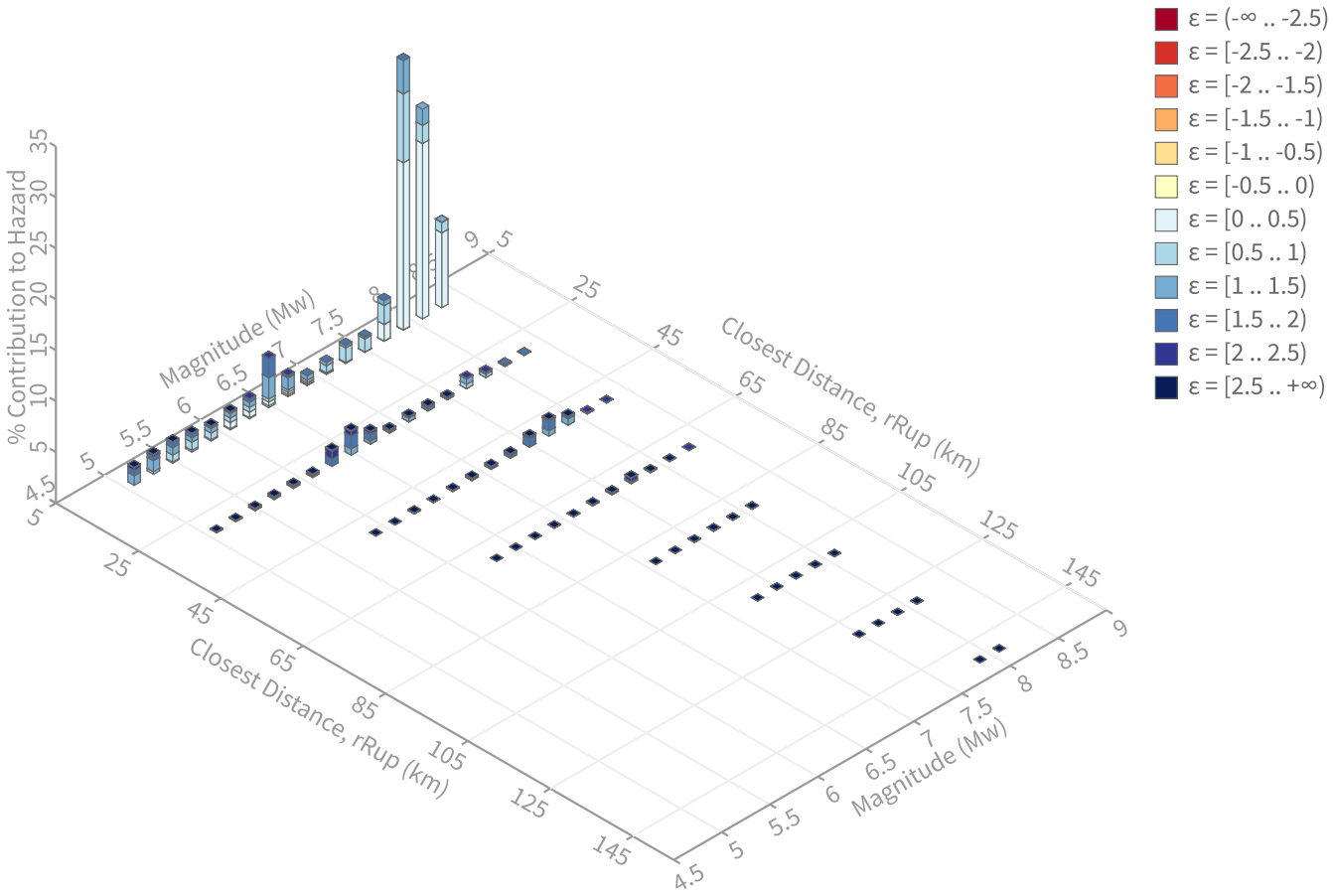


View Raw Data

Deaggregation

Component

Total



Summary statistics for, Deaggregation: Total

Deaggregation targets

Return period: 475 yrs
Exceedance rate: 0.0021052632 yr^{-1}
PGA ground motion: 0.40372894 g

Recovered targets

Return period: 508.0917 yrs
Exceedance rate: 0.0019681487 yr^{-1}

Totals

Binned: 100 %
Residual: 0 %
Trace: 0.18 %

Mean (over all sources)

m: 7.42
r: 19.19 km
ε_0: 0.82 σ

Mode (largest m-r bin)

m: 7.9
r: 17.09 km
ε_0: 0.53 σ
Contribution: 26.42 %

Mode (largest m-r-ε_0 bin)

m: 8.1
r: 17.08 km
ε_0: 0.32 σ
Contribution: 17.19 %

Discretization

r: min = 0.0, max = 1000.0, Δ = 20.0 km
m: min = 4.4, max = 9.4, Δ = 0.2
ε: min = -3.0, max = 3.0, Δ = 0.5 σ

Epsilon keys

ε0: [-∞ .. -2.5)
ε1: [-2.5 .. -2.0)
ε2: [-2.0 .. -1.5)
ε3: [-1.5 .. -1.0)
ε4: [-1.0 .. -0.5)
ε5: [-0.5 .. 0.0)
ε6: [0.0 .. 0.5)
ε7: [0.5 .. 1.0)
ε8: [1.0 .. 1.5)
ε9: [1.5 .. 2.0)
ε10: [2.0 .. 2.5)
ε11: [2.5 .. +∞]

Deaggregation Contributors

Source Set ↳ Source	Type	r	m	ε_0	lon	lat	az	%
UC33brAvg_FM32	System							41.36
San Andreas (Mojave S) [7]		17.08	7.90	0.53	118.047°W	34.524°N	205.77	32.40
San Andreas (Mojave S) [8]		18.04	6.80	1.26	117.992°W	34.502°N	187.75	1.74
San Andreas (Mojave S) [9]		21.07	6.72	1.50	117.929°W	34.476°N	170.74	1.45
UC33brAvg_FM31	System							41.19
San Andreas (Mojave S) [7]		17.08	7.90	0.53	118.047°W	34.524°N	205.77	32.30
San Andreas (Mojave S) [8]		18.04	6.75	1.29	117.992°W	34.502°N	187.75	1.74
San Andreas (Mojave S) [9]		21.07	6.68	1.53	117.929°W	34.476°N	170.74	1.50
UC33brAvg_FM31 (opt)	Grid							8.73
PointSourceFinite: -117.966, 34.730		8.73	5.72	0.87	117.966°W	34.730°N	0.00	1.15
PointSourceFinite: -117.966, 34.730		8.73	5.72	0.87	117.966°W	34.730°N	0.00	1.15
UC33brAvg_FM32 (opt)	Grid							8.72
PointSourceFinite: -117.966, 34.730		8.73	5.72	0.87	117.966°W	34.730°N	0.00	1.15
PointSourceFinite: -117.966, 34.730		8.73	5.72	0.87	117.966°W	34.730°N	0.00	1.15

APPENDIX D

On-Site Soil Resistivity Test Results
(Universal Corrosion Services, LLC Report – June 2025)

EARTH SYSTEMS
2122 EAST WALNUT STREET, SUITE 200
PASADENA, CA 91107

ESY-P25-0601-REV00

ATTN: CHRISTOPHER F. ALLEN, PG, CEG
VICE PRESIDENT, MANAGING PRINCIPAL

RE: SOIL ELECTRICAL RESISTIVITY TESTING – PRONGHORN SOLAR & STORAGE SITE, LANCASTER

INTRODUCTION

Universal Corrosion Services, LLC (Ucorr) has completed the Soil Electrical Resistivity Testing Project for the Pronghorn Solar & Storage Site located in Lancaster, California for Earth Systems in accordance with Ucorr's approved proposal ESY-Q25-0301-Rev00 submitted on March 20, 2025 the received Pronghorn Proposed Exploration Maps, and ongoing communications with Earth Systems personnel.

Ucorr was tasked to perform onsite soil electrical resistivity measurements, utilizing the Wenner 4-pin Method or the Schlumberger Method, if necessary, at four locations within the Pronghorn Solar & Storage Site in the City of Lancaster, California. The following figures display the soil resistivity testing traverses at each location with their associated Assessor's Parcel Numbers (APN).

- **Figure 1** - Traverses R1-A/R1-B, APN 3378-004-008
- **Figure 2** - Traverses R2-A/R2-B, APN 3378-003-001
- **Figure 3** - Traverses R3-A/R3-B, APN 3376-011-035 & R4-A/R4-B, APN 3376-006-012

Submeter GPS coordinates were collected at the endpoints of each traverse.



Figure 1 – Traverses R1-A/R1-B, APN 3378-004-008



Figure 2 – Traverses R2-A/R2-B, APN 3378-003-001



Figure 3 – Traverses R3-A/R3-B, APN 3376-011-035 & R4-A/R4-B, APN 3376-006-012

TEST PROCEDURES

Ucorr conducted site visits on June 12, 2025 and June 13, 2025 to complete the following field activities:

- Perform soil resistance measurements utilizing the Wenner 4-Pin Method at depths of 1, 1.5, 2.5, 5, 7, 10, 15, 25, 50, 75, 100, 150, & 200 ft when possible based on site conditions/limitations.
- Ground resistance measurements were collected utilizing a calibrated AEMC Model 4620 Ground Resistance Tester.
- Collect submeter GPS coordinates utilizing a Juniper Geode GNS2 Multi-GNSS Submeter GPS Receiver at the end points of each measurement traverse.

Soil resistivity testing procedures were performed in accordance with the following standards:

1. ASTM G57 – Standard Test Method for Measurement of Soil Resistivity Using the Wenner Four-Electrode Method
2. NACE International – Cathodic Protection Survey Procedures, Section 5.3

Figure 4 displays a schematic of the Wenner 4-Pin (Electrode) Method setup.

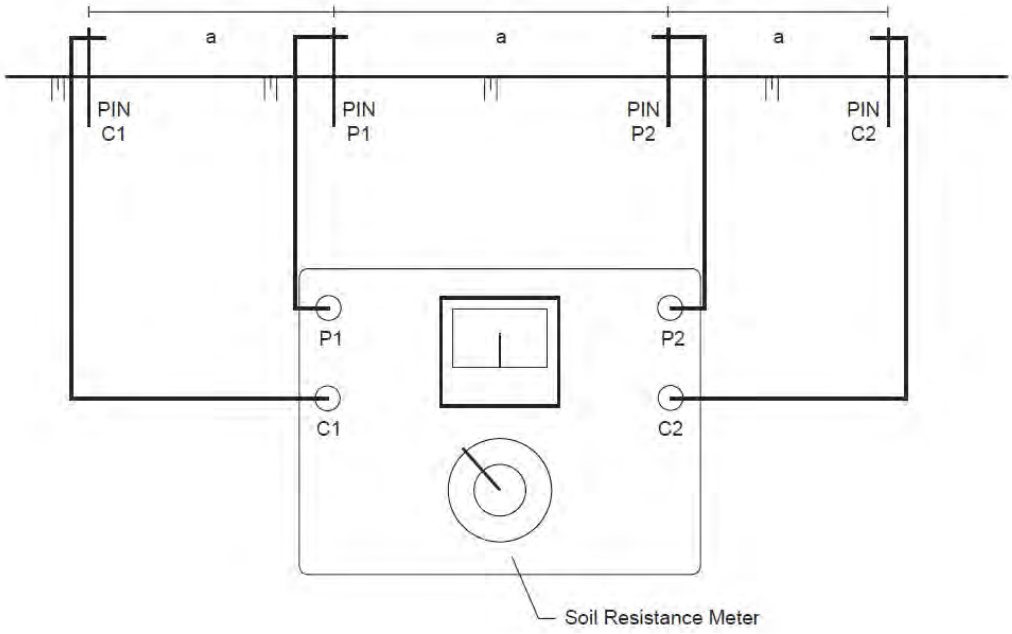


Figure 4 - Wenner 4-Pin Method Schematic

TEST RESULTS

Table 1 displays the submeter GPS coordinates collected at the end points of each measurement traverse.

Table 1 – Measurement Traverse Submeter GPS Coordinates

APN	Traverse No.	Coordinate Location	Latitude	Longitude
3378-004-008	R1-A	East	34.6608778	-117.9675444
		West	34.6608583	-117.9695417
	R1-B	North	34.6624833	-117.9693167
		South	34.6608361	-117.9695694
3378-003-001	R2-A	East	34.6752639	-117.9668722
		West	34.6752667	-117.9688750
	R2-B	North	34.6746222	-117.9693056
		South	34.6729889	-117.9693639
3376-011-035	R3-A	East	34.6916583	-117.9689583
		West	34.6916611	-117.9696389
	R3-B	North	34.6917917	-117.9696417
		South	34.6909694	-117.9696250
3376-006-012	R4-A	Northeast	34.6920389	-117.9699861
		Southwest	34.6908806	-117.9713972
	R4-B	Northwest	34.6919306	-117.9716028
		Southeast	34.6910722	-117.9698944

As seen in **Figure 5**, the following site conditions were observed:

- Approximate temperature range: Low 70°F, High 97°F.
- Weather conditions: Hot, dry, and clear/sunny sky
- Dry soil with sparse brush.



Figure 5 - Typical Site Conditions

Figure 6 displays typical resistance measurements being performed utilizing the Wenner 4-Pin Method.



Figure 6 - Typical Resistance Measurement Being Performed

The collected resistance measurements and calculated average/layer resistivity values are displayed in the enclosed Soil Resistivity Data tables at the end of this report.

CLOSURE

Please do not hesitate to call with any questions or comments regarding this report.

Respectfully Submitted,
Universal Corrosion Services, LLC

Carlos Pacheco
Corrosion Engineer

Enclosed: Soil Resistivity Data

SOIL RESISTIVITY DATA
APN: 3378-004-008

Traverse No.	Depth	Measured Ground Resistance (Ω)	Average Resistivity (Ω-cm)	Layer Resistivity (Ω-cm)
R1-A	1	34.9	6,684	6,684
	1.5	25.9	7,440	9,617
	2.5	20.1	9,623	17,189
	5	10.4	9,959	10,318
	7	7.73	10,363	11,533
	10	5.94	11,376	14,738
	15	4.35	12,496	15,561
	25	2.33	11,156	9,609
	50	1.03	9,863	8,839
	75	0.58	8,331	6,356
	100	0.41	7,852	6,697
	150	0.31	8,905	12,171
	200	0.21	8,043	6,234
R1-B	1	53.7	10,284	10,284
	1.5	33.2	9,537	8,328
	2.5	18.9	9,049	8,403
	5	3.59	3,438	2,122
	7	2.79	3,740	4,795
	10	2.20	4,213	5,977
	15	1.46	4,194	4,156
	25	0.77	3,687	3,120
	50	0.36	3,447	3,237
	75	0.15	2,155	1,231
	100	0.10	1,915	1,436
	150	0.06	1,724	1,436
	200	0.19	7,277	-

**Note: Calculated, negative Layer Resistivity values are not reported.*

SOIL RESISTIVITY DATA
APN: 3378-003-001

Traverse No.	Depth	Measured Ground Resistance (Ω)	Average Resistivity (Ω-cm)	Layer Resistivity (Ω-cm)
R2-A	1	27.1	5,190	5,190
	1.5	23.5	6,751	16,939
	2.5	21.9	10,485	61,601
	5	11.7	11,203	12,027
	7	7.78	10,430	8,894
	10	5.23	10,016	9,168
	15	2.75	7,900	5,553
	25	1.31	6,272	4,791
	50	0.38	3,639	2,563
	75	0.36	5,171	32,748
	100	0.56	10,725	-
	150	0.31	8,905	6,649
	200	0.04	1,532	440
R2-B	1	35.3	6,760	6,760
	1.5	31.7	9,106	29,764
	2.5	18.6	8,881	8,564
	5	11.01	10,543	12,969
	7	8.88	11,904	17,581
	10	6.61	12,659	14,856
	15	4.42	12,697	12,775
	25	2.29	10,964	9,101
	50	1.06	10,150	9,449
	75	0.76	10,916	12,857
	100	0.59	11,299	12,628
	150	0.30	8,618	5,844
	200	0.16	6,128	3,283

**Note: Calculated, negative Layer Resistivity values are not reported.*

SOIL RESISTIVITY DATA
APN: 3376-011-035

Traverse No.	Depth	Measured Ground Resistance (Ω)	Average Resistivity (Ω-cm)	Layer Resistivity (Ω-cm)
R3-A	1	251	48,069	48,069
	1.5	236	67,795	378,146
	2.5	131.6	63,007	56,972
	5	84.2	80,626	111,924
	7	40.2	53,891	29,465
	10	15.5	29,684	14,494
	15	5.10	14,651	7,278
	25	0.83	3,974	1,899
	50	0.33	3,160	2,623
	75	0.32	3,511	-
	100	0.53	3,806	-
	150	1.26	3,519	-
R3-B	1	217	41,558	41,558
	1.5	159.9	45,934	58,188
	2.5	130.2	62,337	134,245
	5	74.9	71,721	84,431
	7	56.3	75,475	86,836
	10	38.3	73,349	68,826
	15	13.70	39,356	20,424
	25	2.03	9,719	4,564
	50	0.33	3,160	1,887
	75	0.22	3,160	3,160
	100	0.15	2,873	2,257
	150	0.29	3,124	-
	200	0.56	3,352	-

**Note: Calculated, negative Layer Resistivity values are not reported.*

SOIL RESISTIVITY DATA
APN: 3376-006-012

Traverse No.	Depth	Measured Ground Resistance (Ω)	Average Resistivity (Ω-cm)	Layer Resistivity (Ω-cm)
R4-A	1	159.5	30,546	30,546
	1.5	96.1	27,606	23,150
	2.5	86.8	41,558	171,773
	5	86.4	82,733	8,976,526
	7	70.7	94,779	149,025
	10	47.2	90,393	81,585
	15	24.0	68,944	46,755
	25	8.81	42,180	26,658
	50	1.19	11,395	6,587
	75	0.76	10,916	10,070
	100	0.43	8,235	4,741
	150	0.35	10,054	18,014
	200	0.16	6,128	2,822
R4-B	1	82.1	15,723	15,723
	1.5	72.3	20,769	57,999
	2.5	59.5	28,487	64,364
	5	35.3	33,802	41,554
	7	26.2	35,123	38,928
	10	14.8	28,344	19,542
	15	8.10	23,269	17,133
	25	3.00	14,363	9,125
	50	1.31	12,544	11,134
	75	1.18	16,949	56,930
	100	0.99	18,960	29,437
	150	0.36	10,342	5,417
	200	0.30	11,491	17,236

APPENDIX E

Results of Percolation Testing

PERCOLATION TEST

Project Name:	Prongorn Solar & Storage				
Job No.:	307256-001	Proposed Substation	Depth of Boring (ft.):	5	
Test Date:	6/17/2025	Area	Soil Type:	ML	
Test No.:	1		Test Method:	Small Diameter Boring Infiltration Test	
Location:	B3			Falling Head Test (GMED, 2021)	
Tested by:	Saleh Jumah	Borehole Diam (in.):	8	Area of Boring(sq ft):	0.35
Depth to Water Table:	~280 feet	Depth of Boring (in):	60	Side Wall Area (sq ft):	5.24
Pre-soak Date:	6/16/2025	Cap Test Depth (in):	30	Depth Tested or d_1 (in):	30

Time (hr:min)	Elapsed Time (min)	Water Level (inches)			Percolation Rate (min/in)
		Dropped to	Filled to	Difference From Prior Fill Level	
3:20			30.0		
3:35	15	40.8	30.0	10.8	1.39
3:50	15	39.6	30.0	9.6	1.56
4:05	15	39.6	30.0	9.6	1.56
4:20	15	39.6	30.0	9.6	1.56
4:35	15	39.6	30.0	9.6	1.56

TEST RESULT - STABILIZED PERCOLATION RATE

1.56 min/in

COMPUTED SOIL PERCOLATION RATE

38.3 gal/sf/day

2.6 in/hr

TOTAL REDUCTION FACTOR (RF) = RFt + RFv + RFs

Boring percolation test, RFt =	2
Site variability, RFv =	1
Long term, RFs =	1
RF =	**4**

DESIGN INFILTRATION RATE (= TESTPERCOLATION RATE/RF)

9.6 gal/sf/day

0.6 in/hr

PERCOLATION TEST

Project Name:	Prongorn Solar & Storage				
Job No.:	307256-001	North Solar Farm	Depth of Boring (ft.):	5	
Test Date:	6/17/2025	Area	Soil Type:	SM	
Test No.:	2		Test Method:	Small Diameter Boring Infiltration Test	
Location:	B5			Falling Head Test (GMED, 2021)	
Tested by:	Saleh Jumah	Borehole Diam (in.):	8	Area of Boring(sq ft):	0.35
Depth to Water Table:	~280 feet	Depth of Boring (in):	60	Side Wall Area (sq ft):	5.24
Pre-soak Date:	6/16/2025	Cap Test Depth (in):	30	Depth Tested or d_1 (in):	30

Time (hr:min)	Elapsed Time (min)	Water Level (inches)			Percolation Rate (min/in)
		Dropped to	Filled to	Difference From Prior Fill Level	
9:18			30.0		
9:33	15	46.8	30.0	16.8	0.89
9:48	15	43.2	30.0	13.2	1.14
10:03	15	43.2	30.0	13.2	1.14
10:18	15	38.4	30.0	8.4	1.79
10:33	15	38.4	30.0	8.4	1.79
10:48	15	38.4	30.0	8.4	1.79

TEST RESULT - STABILIZED PERCOLATION RATE

1.79 min/in

COMPUTED SOIL PERCOLATION RATE

33.5 gal/sf/day

2.2 in/hr

TOTAL REDUCTION FACTOR (RF) = RFt + RFv + RFs

Boring percolation test, RFt =	2
Site variability, RFv =	1
Long term, RFs =	1
RF =	**4**

DESIGN INFILTRATION RATE (= TESTPERCOLATION RATE/RF)

8.4 gal/sf/day

0.6 in/hr

PERCOLATION TEST

Project Name:	Prongorn Solar & Storage				
Job No.:	307256-001	South Solar Farm	Depth of Boring (ft.):	5	
Test Date:	6/17/2025	Area	Soil Type:	SP	
Test No.:	3		Test Method:	Small Diameter Boring Infiltration Test	
Location:	B9			Falling Head Test (GMED, 2021)	
Tested by:	Saleh Jumah	Borehole Diam (in.):	8	Area of Boring(sq ft):	0.35
Depth to Water Table:	~280 feet	Depth of Boring (in):	60	Side Wall Area (sq ft):	5.24
Pre-soak Date:	6/16/2025	Cap Test Depth (in):	30	Depth Tested or d_1 (in):	30

Time (hr:min)	Elapsed Time (min)	Water Level (inches)			Percolation Rate (min/in)
		Dropped to	Filled to	Difference From Prior Fill Level	
1:43			30.0		
1:58	15	36.0	30.0	6.0	2.50
2:13	15	34.8	30.0	4.8	3.13
2:28	15	34.8	30.0	4.8	3.13
2:43	15	34.8	30.0	4.8	3.13
2:58	15	34.8	30.0	4.8	3.13

TEST RESULT - STABILIZED PERCOLATION RATE

3.13 min/in

COMPUTED SOIL PERCOLATION RATE

19.1 gal/sf/day

1.3 in/hr

TOTAL REDUCTION FACTOR (RF) = RFt + RFv + RFs

Boring percolation test, RFt =	2
Site variability, RFv =	1
Long term, RFs =	1
RF =	**4**

DESIGN INFILTRATION RATE (= TESTPERCOLATION RATE/RF)

4.8 gal/sf/day

0.3 in/hr

APPENDIX F

LACDP-GMED Review Letter

Dist. Office --
PCA LX000135 / A335
EPIC LA RPPL2024001545
Telephone: (626) 458-4925
Email:
GMEDSubmittals@dpw.lacounty.gov

Los Angeles County Public Works
Geotechnical and Materials Engineering Division
GEOLOGIC AND GEOTECHNICAL ENGINEERING REVIEW SHEET
900 S. Fremont Avenue, Alhambra, CA 91803

Tract / Parcel Map		**Lot(s)**		**Parent Tract**	
Site Address	43210 U 90th Street East 43186 U 90th Street East	**Location**	Lancaster	**APN**	3378-003-001 3378-003-008
Geologist	--	**Developer/Owner**	Pronghorn Solar Plus LLC.		
Soils Engineer	--	**Engineer/Arch.**	Dudek		

Review of:

C.U.P. No.: RPAP2024001049 For: CUP for 38 MW utility scale PV solar and batter energy storage project.
Submittal Received by GMED: **05/20/2024**

Geologic Report(s) Dated:
Soils Engineering Report(s) Dated: --
Geotechnical Report(s) Dated:
References:

Action: Plan is not recommended for approval from a geotechnical standpoint for the following reasons:

S1. A search of our records indicates a potential for soils subject to hydroconsolidation at the subject site. Therefore, provide a report, with sufficient subsurface exploration data, pertinent test results, and analyses that address and evaluate the site and the proposed development. The report must comply with the provisions of the County of Los Angeles Department of Public Works Manual for Preparation of Geotechnical Reports. The Manual is available at: http://dpw.lacounty.gov/gmed/permits/docs/manual.pdf.

S2. Provide chemical test results (sulfate, chloride, resistivity, etc.) for the on-site soils to address the presence of chemicals deleterious to construction materials and utility lines. The chemical tests must be in accordance with California Test Methods, Department of Transportation, or equivalent (aqueous solution tests, such as EPA Tests or similar methods are not acceptable for determination of resistivity). Resistivity tests must be performed on soils in a saturated condition. Recommend mitigation as necessary.

S3. Provide consolidation / hydrocollapse test results to evaluate the potential of hydrocollapse with the development site. Per County standards, consolidation test results measuring at or over 2 percent will require remedial grading recommendations and/or mitigation measures to address potential hydroconsolidation settlement.

S4. In accordance with Section 111 of the County of Los Angeles Building Code, the geotechnical consultant(s) must make a finding regarding the safety of the site of the proposed work against hazard from landslide, settlement or slippage and a finding regarding the effect that the proposed work will have on the geotechnical stability of the area outside of the proposed work. The finding must be substantiated by appropriate data and analyses and be included in the geotechnical report.

S5. Please submit documents in response to this review using the EPIC-LA system at the following URL: https://epicla.lacounty.gov/SelfService/#/home. The documents must be submitted to the EPIC-LA plan case number shown at the upper left corner of the first page of this review sheet. Please contact GMED staff at (626) 458-4925 if documents cannot be uploaded to the plan case.

S6. Include a copy of this review sheet with your response.

Prepared by

Hailley Ndubizu
Geotechnical Section

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Engineering Geology Section

Date 06/04/2024

Please complete a Customer Service Survey at http://dpw.lacounty.gov/go/gmedsurvey
NOTICE: Public safety, relative to geotechnical subsurface exploration, shall be provided in accordance with current codes for excavations, inclusive of the Los Angeles County Code, Chapter 11.48, and the State of California, Title 8, Construction Safety Orders.
P:\gmepub\Development Review\ICombined Reviews\CUP-EIR\43210 U 90th St. E, Lancaster, 2024-06-04, CUP-1-NA.docx

Appendix F1

Phase I ESA (2025)

DRAFT

PHASE I ENVIRONMENTAL SITE ASSESSMENT REPORT

APN 3376-011-035 and 3376-006-012
90th Street, Lancaster, California 93535

PREPARED FOR:

Pronghorn Solar Plus, LLC
7650 Girard Ave Suite 300
La Jolla, California 92037

Project Number: 4470425-0007958.00

Date: July 14, 2025

NV5
370 Amapola Avenue, Suite 212
Torrance, California 90501

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EXECUTIVE SUMMARY

NV5 Environmental, LP (NV5) has completed a Phase I Environmental Site Assessment (ESA) of the two properties identified by Los Angeles County Assessor's Parcel Numbers (APNs) 3376-011-035 and 3376-006-012 located in the City of Lancaster, Los Angeles County, California (Site). The ESA was performed in conformance with the scope and limitations of ASTM Standard E1527-21. Any exceptions to, or deletions from, this practice are described in Section 1.0 of this report. The assessment was performed to identify conditions indicative of releases and threatened releases of hazardous substances and petroleum products on, at, in, or adjacent to the Site. If identified, these issues are considered recognized environmental conditions (RECs).

Site and Vicinity Description

The Site consists of two adjoining parcels of land that are bisected by 90th Street East. Parcel 3376-011-035 is approximately 0.76 acres in size and is located on the eastern side of 90th Street East. This parcel has been assigned the address of 44434 90th Street East. Parcel 3376-006-012 is located on the western side of 90th Street East. This parcel is approximately 1.75 acres in size and has not been assigned an address.

The Site is located within an area developed for agricultural use. Current uses of adjoining properties include a vacant gasoline station and market to the south of the Site, on the west side of 90th Street East, and a Southern California Edison electrical substation to the south of the Site, on the east side of 90th Street East. The remaining adjoining properties are undeveloped land.

Site Use and History

The western parcel (3376-006-012) is undeveloped. The eastern parcel (3376-011-035) is developed with two single-story, vacant, commercial buildings.

The western Site parcel does not appear to have been previously developed. The eastern Site parcel was first developed for commercial use in the 1960s. This Site parcel was occupied by an automotive repair business from the 1970s to the mid-1990s, a pump system repair business from the 2010s to 2020, and a marijuana cultivation business in the early 2020s.

Data Gaps

The ASTM Standard defines a data gap as "a lack of or inability to obtain information required by the practice despite good faith efforts by the Environmental Professional to gather such information." A data gap is only significant if other information obtained during the ESA, or professional experience, raises reasonable concerns and affects the ability of the Environmental Professional to identify whether a given issue is a REC. The ASTM Standard requires that the ESA report identify and comment on significant data gaps. No data gaps were identified by NV5 during this assessment.

Conclusions

<u>RECs</u>

No evidence of a REC, Controlled REC (CREC) or Historic REC (HREC) in connection with the Site was identified during this assessment.

<u>Vapor Encroachment Conditions (VEC)</u>

A Tier 1 vapor encroachment screen (VES) for potential chemicals of concern (COC) was completed for the Site. The assessment was based on the ASTM published Standard Guide E 2600-22. The purpose of the VES was to evaluate the potential for a vapor encroachment condition (VEC) which is the presence or likely presence of COC vapors in subsurface soils at the Site caused by the release of vapors from

contaminated soil or groundwater on or near the Site. No potential concerns were identified within the VES search radii.

Environmental Conditions of Note

One in-ground hydraulic lift is present within the vacant automotive garage building located on the eastern portion of the Site. No evidence of a leak or release from the lift was reported.

Several empty 55-gallon drums and containers (less than five gallons in size) that were previously used to contain waste oil were observed throughout the eastern Site parcel. Additionally, several small containers of various plant nutrients were observed throughout the eastern Site parcel.

Recommendations

If no longer in use, NV5 recommends that the in-ground hydraulic lift be properly removed from the Site. NV5 also recommends that the observed empty drums and storage containers be properly shipped off-site for disposal.

1 INTRODUCTION

NV5, Inc. (NV5) completed a Phase I Environmental Site Assessment (ESA) of the of the two properties identified by Los Angeles County Assessor's Parcel Numbers (APNs) 3376-011-035 and 3376-006-012 located in the City of Lancaster, Los Angeles County, California (Site). The purpose of this assessment was to evaluate the environmental condition of the Site and to satisfy one of the requirements for qualification under the innocent landowner, contiguous property owner, or bona fide prospective purchaser defenses under the federal Comprehensive Environmental Response, Compensation and Liability Act (CERCLA). ASTM Standard Practice E1527-21, and the United States Environmental Protection Agency (EPA) Standards and Practices for All Appropriate Inquiries (40 CFR Part 312) constitute the "all appropriate inquiry into the previous ownership and uses of the property consistent with good commercial or customary practice" as defined in:

1. 42 U.S.C § 9601(35)(B), referenced in the ASTM Standard Practice E1527-21;
2. Sections 101(35)(B) (ii) and (iii) of CERCLA and referenced in the EPA Standards and Practices for All Appropriate Inquiries (40 CFR Part 312); and
3. 42 U.S.C. 9601(40) and 42 U.S.C. 9607(q).

This report was prepared exclusively for use by Pronghorn Solar Plus, LLC (Client). This report may not be relied upon by any other person or entity without NV5's express written permission. The information, conclusions and recommendations described in this report apply to conditions existing at certain locations at the time when services were performed and are intended only for the specific purposes, locations, time frames and project parameters indicated. NV5 cannot be responsible for the impact of any changes in environmental standards, practices, or regulations after performance of services.

1.1 Objectives

NV5's objective for this environmental assessment was to identify conditions indicative of releases and threatened releases of hazardous substances and petroleum products on, at, in, or to the Site. The assessment was conducted to meet the standards of ASTM Standard Practice E1527-21.

The conclusions and recommendations provided herein are based on the following:

1. Current and past Site uses and occupancies;
2. Current and past uses of hazardous substances;
3. Waste management and disposal activities that could have caused releases or threatened releases of hazardous substances;
4. Current and past corrective actions and response activities undertaken to address past and on-going releases of hazardous substances;
5. Engineering controls;
6. Institutional controls; and
7. Evaluation of properties adjoining or located nearby the Site that have environmental conditions that could have resulted in conditions indicative of releases or threatened releases of hazardous substances to the Site.

1.2 Services

NV5 performed the following services to assess the Site:

1. Reviewed historical sources of information;
2. Searched for recorded environmental clean-up liens;
3. Reviewed Federal, State, Tribal, and local government records;
4. Visually inspected the Site and the adjoining properties;
5. Evaluated any specialized knowledge or experience on the part of the purchaser; and
6. Determined commonly known or reasonably ascertainable information about the Site.

1.3 Assumptions

NV5 has assumed the following for the purposes of this assessment:

1. Information provided during any interview (written or oral) was accurate and correct;
2. Database information reviewed was accurate and correct;
3. Historical information reviewed was accurate and correct;
4. Information reviewed at any governmental agency was accurate and correct;
5. Groundwater flow and depth to groundwater, unless otherwise specified by on-site well data or well data from adjacent sites, are assumed based on contours depicted on the United States Geological Survey (USGS) Topographic Maps; and
6. The Site has been correctly and accurately identified by the Client, Client representatives, Site contact, Site owner, and/or Site representatives.

1.4 Limitations

This assessment is limited to the standards set forth in ASTM Standard Practice E1527-21. This report specifically excludes assessment of the following:

1. Asbestos and asbestos-containing building materials;
2. Biological agents;
3. Cultural and historic resources;
4. Ecological resources;
5. Endangered species;
6. Health and safety;
7. Indoor air quality unrelated to releases of hazardous substances or petroleum products into the environment;
8. Industrial hygiene;
9. Lead-Based Paint;
10. Lead in Drinking Water;
11. Mold;
12. Radon;
13. Regulatory compliance; and
14. Wetlands.

Please note that considerations identified by ASTM as beyond the scope of a Phase I ESA may still affect business environmental risk at a given property. These environmental issues or conditions may warrant assessment based on the type of property transaction; however, they are considered non-scope issues under ASTM Standard Practice E1527-21 and not included in this assessment.

The conclusions and findings set forth in this report are strictly limited in time and scope to the date of the evaluation. The conclusions presented in this report are based solely on the services described herein, and not on scientific tasks or procedures beyond the scope of agreed-upon services or the time and budgeting restraints imposed by the Client. No subsurface exploratory drilling or sampling of any kind was conducted under the scope of this work. Unless specifically stated otherwise in the report, no chemical or physical analyses have been performed during the performance of this Phase I ESA.

Some of the information provided in this report is based upon personal interviews, and research of available documents, records, and maps held by the appropriate government and private agencies. This information is subject to the limitations of historical documentation, availability, and accuracy of pertinent records and the personal recollections of those persons contacted. As applicable, NV5 has relied in good faith upon representations and information furnished by individuals with respect to operations and existing property conditions, to the extent that they have not been contradicted by data obtained from other sources. Accordingly, NV5 accepts no responsibility for any deficiencies, omissions, misrepresentations, or fraudulent acts of persons interviewed.

Property conditions, as well as local, state, tribal, and federal regulations can change significantly over time. Therefore, the recommendations and conclusions presented in this study apply strictly to the environmental regulations and property conditions existing at the time the study was performed.

Available information has been analyzed using currently accepted assessment techniques and it is believed that the inferences made are reasonably representative of the Site. NV5 makes no warranty, express or implied, except that the services have been performed in accordance with generally accepted environmental property assessment practices applicable at the time and location of the study.

This Phase I ESA is not, and should not be construed as, a warranty or guarantee about the presence or absence of hazardous substances or petroleum products that may affect the Site. The assessment is not intended to assure clear title to the Site in question. The sole purpose of investigation into Site title records is to ascertain a historical basis of prior land use and environmental liens. All findings, conclusions, and recommendations stated in this report are based upon facts, circumstances, and industry-accepted procedures for such services as they existed at the time this report was prepared (i.e., federal, state, and local laws, rules, regulations, market conditions, economic conditions, political climate, and other applicable matters). All findings, conclusions, and recommendations stated in this report are based on the data and information provided, and observations and conditions that existed on the date and time of the Site visit. Responses received from local, state, or federal agencies or other secondary sources of information after the issuance of this report may change certain facts, findings, conclusions, or circumstances to the report. A change in any fact, circumstance, or industry-accepted procedure upon which this report was based may adversely affect the findings, conclusions, and recommendations expressed in this report.

1.5 Terms

The following terms are used in this report:

- "Site" refers to the property within the approximate boundaries described in Section 2;
- "Adjoining property" refers to properties adjacent to the Site that share a common boundary with the Site; and
- "Site vicinity" refers to the area within an approximate 1-mile radius of the Site.
- "Recognized Environmental Conditions" (RECs) – The presence or likely presence of any *hazardous substances* or *petroleum products in, on, at or to the* Site: (*1*) due to release to the environment; (*2*) under conditions indicative of a *release* to the *environment*; or (*3*) under conditions that pose a *material threat* of a future *release* to the *environment*. *De minimis conditions* are not *recognized environmental conditions*.
- "Controlled Recognized Environmental Condition" (CREC) – A recognized environmental condition resulting from a past *release* of *hazardous substances* or *petroleum products* that has been addressed to the satisfaction of the applicable regulatory authority (for example, as evidenced by the issuance of a no further action letter or equivalent, or meeting risk-based criteria established by regulatory authority), with *hazardous substances* or *petroleum products* allowed to remain in place subject to the implementation of required controls (for example, *property use restrictions*, *activity and use limitations*, *institutional controls*, or *engineering controls*). A condition identified as a *controlled recognized environmental condition* does not imply that the *Environmental Professional* has evaluated or confirmed the adequacy, implementation, or continued effectiveness of the required control that has been, or is intended to be, implemented.
- "Historical Recognized Environmental Condition" (HREC) – A past *release* of any *hazardous substances* or *petroleum products* that has occurred in connection with the Site and has been addressed to the satisfaction of the applicable regulatory authority or meeting unrestricted use criteria established by a regulatory authority, without subjecting the Site to any required controls (for example, Site use restrictions, *activity and use limitations*, *institutional controls*, or *engineering controls*).
- "Migrate/migration" – For the purposes of this practice, "migrate" and "migration" refer to the movement of *hazardous substances* or *petroleum products* in any form, including, for example, solid and liquid at the surface or subsurface, and vapor in the subsurface.
- "Hazardous Substances" – The term "hazardous substance" is used here in general accordance with its use as defined in the following regulations:

-- Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) of 1980, as amended; and

-- Superfund Amendment and Reauthorization Act (SARA) of 1986, as amended.

- The words “impact” or “impacted” are used to mean the effect or result of a release of a hazardous substance or petroleum product at the Site. Search distances for government agency lists were those designated by the ASTM Standard E 1527-21.

1.6 Environmental Professional

This document has been prepared by an Environmental Professional as defined by the EPA, 40 CFR Part 312.10. All work performed for this assessment was performed by or under the direct supervision of an Environmental Professional.

1.7 Dates of Completion

Dates of completion for Phase I ESA components required under ASTM E1527-21 are presented below.

Phase I ESA Component	Date of Completion
Site Visit/Visual Inspection	June 24, 2025
Review of Government Records	June 16, 2025
Interviews	June 25, 2025
Environmental Cleanup Lien Search	June 18, 2025
Declaration by Environmental Professional	July 14, 2025

2 SITE DESCRIPTION

Mr. Aaron Arnold, of NV5, conducted a Site reconnaissance on June 24, 2025. The descriptions provided herein are based on information provided by the current Site representatives and on observations made during that visit. Site Vicinity and Site Layout maps depicting the areas and features described in the following sections are provided in Figures 1 and 2. Representative Site photographs are included in Appendix A.

2.1 Site Location and Use

2.1.1 Location and Description

The Site consists of two adjoining parcels of land that are bisected by 90th Street East. Parcel 3376-011-035 is approximately 0.76 acres in size and is located on the eastern side of 90th Street East. This parcel has been assigned the address of 44434 90th Street East. Parcel 3376-006-012 is located on the western side of 90th Street East. This parcel is approximately 1.75 acres in size and has not been assigned an address.

2.1.2 Development and Current Use

The western parcel (3376-006-012) is undeveloped. The eastern parcel (3376-011-035) is developed with two single-story, vacant, commercial buildings.

2.2 Utility Service Providers

The only active utility service at the Site is electricity provided by Southern California Edison. Water for irrigation is provided by Aqua J Mutual Co. Natural gas service was not reported to be provided to the Site. The Site owner indicated that they do not know if the Site is connected to a municipal sewer system or if a septic tank is present at the Site. Records obtained by NV5 from the Los Angeles County Department of Public Health (See Section 5.2) indicated that in 1960, a septic tank was installed near the southwestern corner of the garage building located at the 44434 90th Street East property.

2.3 Chemical and Petroleum Storage Areas

No evidence of active petroleum storage areas at the Site was observed or reported during the Site reconnaissance. An empty 5-gallon container of lubrication oil and two empty 55-gallon drums, previously used for waste oil storage, were observed on the eastern Site parcel. Several small (less than 5-gallons in size) empty containers of plant nutrient supplements were also observed within the interior of the Site buildings. Additionally, several empty 275-gallon polyethylene totes were observed within the Site buildings. These totes were reportedly previously used for mixing the plant nutrients and additives that were used in the onsite former cannabis growing operation. No evidence of a past release of these materials were observed or reported during the Site reconnaissance.

2.4 Storage Tanks

2.4.1 Aboveground Storage Tanks (ASTs)

One 500-gallon polyethylene AST and one 250-gallon polyethylene AST were observed within one of the Site structures on the eastern Site parcel. The ASTs were reportedly previously used to mix plant nutrients associated with a former cannabis growing operation at the Site. Both ASTs were empty at the time of the Site reconnaissance. No evidence of a past release of these materials were observed or reported during the Site reconnaissance.

2.4.2 Underground Storage Tanks (USTs)

No evidence of USTs at the Site was observed or reported during the Site reconnaissance.

2.4.3 Septic Tanks

No septic tanks were observed or reported to be present at the Site during the Site reconnaissance. NV5 has submitted a records request to the Los Angeles County Department of Public Health for information or records pertaining to septic tanks being present at the Site. At the time of this report, no response from this agency has been received.

2.5 Polychlorinated Biphenyls (PCBs)

Pole-mounted transformers were observed along 90th Street and surrounding properties. No evidence of leaks or releases from the transformers was observed. The presence of the transformers is not considered to represent a REC.

2.6 Floor Drains, Sumps, and Clarifiers

No evidence of floor drains, sumps, or clarifiers at the Site was observed or reported to be present at the Site.

2.7 Back-up Power Generation

No back-up power generation systems were observed or reported to be present at the Site.

2.8 Cooling Towers

No cooling towers were observed on the Site.

2.9 Elevators, Lifts and Compactors

No elevators or compactors were observed or reported to be present at the Site. One in-ground hydraulic lift was reported to be located within the vacant former automotive garage located on the eastern Site parcel. The location of the lift could not be confirmed during the Site reconnaissance.

2.10 Odors

No strong, pungent, or noxious odors indicative of a past release of hazardous substances or petroleum products were identified during the course of this assessment.

2.11 Pools of Liquid

No standing surface water or other pits, ponds, or lagoons potentially containing hazardous substances or petroleum products were identified within the Site.

2.12 Surface Staining

No surface staining indicative of a past release of hazardous substances or petroleum products were identified during the course of this assessment.

2.13 Stressed Vegetation

No significantly stressed vegetation or other indications of potential release of hazardous substances or petroleum products were observed during the Site reconnaissance.

2.14 Solid Waste

No evidence of solid waste dumping or releases was observed during the Site reconnaissance.

2.15 Adjacent Properties

The following table summarizes land use observed in the near vicinity of the Site:

Direction	Property Tenant Name	Address	Business Operation
Properties Adjoining the Eastern Site Parcel			
North	Vacant Land	No Address Assigned	Undeveloped Land
East	Vacant Land	No Address Assigned	Undeveloped Land
South	Southern California Edison Piute Substation	No Address Assigned	Electrical Substation
Properties Adjoining the Western Site Parcel			
North	Vacant Land	No Address Assigned	Undeveloped Land
West	Vacant Land	No Address Assigned	Undeveloped Land
South	Big Nine Market/Petro Lock Gasoline	8841 E. Avenue J	Vacant Service Station and Market

3 SITE SETTING

3.1 Topography

The 2021 United States Geological Survey (USGS), “Alpine Butte, CA” 7.5 Minute Topographic Quadrangle map of the Site and surrounding vicinity was reviewed. The elevation of the Site is approximately 2,450 feet above mean sea level (msl). The Site and surrounding topography slope towards the northwest. A copy of the USGS 7.5 Minute Topographic Map is included in Appendix B.

3.2 Regional Geology and Hydrology

The following description of regional geology and hydrology was developed based on regional information presented in the site-specific Environmental Data Resources (EDR) Radius Map Report (“EDR Report”) (2025).

According to United States Department of Agriculture (USDA) soil data published in the EDR Report, soils underlying the Site are classified as *Hesperia* loamy fine sand. Soils of this type have moderate infiltration rates and consist of deep and moderately deep, moderately well and well-drained soils with moderately coarse textures.

According to groundwater information published on the State Water Resources Control Board *Geotracker* website for a groundwater monitoring well located near the intersection of East Avenue M and 55th Street East (located approximately four miles southwest of the Site), NV5 infers that the shallowest groundwater in the vicinity of the Site is expected to be present at a depths of greater than 300 feet below ground surface and is assumed to flow following local topography towards the northwest.

3.3 Flood Plain

According to Federal Emergency Management Agency flood plain data presented in the EDR Report, the Site is not located within the boundaries of a 100-year or 500-year flood zone (EDR, 2025). The EDR Report is presented as Appendix B.

3.4 Wetlands

According to map data published on the United States Department of Fish and Wildlife (USFW) National Wetlands Inventory, no wetlands are mapped on the Site. A screenshot is provided in Appendix C.

3.5 Water Bodies

No water bodies were observed on or adjacent to the Site during the Site reconnaissance.

3.6 Oil and Gas Wells

According to the State of California Geologic Energy Management Division (CalGem) online Well Finder application, no oil/gas are located on or adjacent to the Site. A screenshot is provided in Appendix C.

4 CLIENT/USER-PROVIDED INFORMATION

NV5 considers the Client to be the 'User' of our assessment, defined in ASTM Practice E1527-21 as "the party seeking to use Practice E1527 to complete an environmental site assessment of the subject property". A User may include, without limitation, a potential purchaser of property, a potential tenant of property, an owner of property, a lender, or a property manager. The User has specific obligations for completing a successful application of this practice.

The EPA All Appropriate Inquiry Rule (40 CFR Part 312) and ASTM E1527-21 § 6 require the User to answer certain questions related to the Site in order to obtain certain LLPs from CERCLA liability. To

facilitate this process, NV5 provided the client with a User Questionnaire, which is presented in Appendix F. A summary of the required questions and client responses is provided below.

4.1 Title Records

Title records were not provided to NV5 by the Client/User for review. However, the EDR Lien and AUL Search report included a listing of property deeds for the Site from 1980 onward, as summarized on the following tables.

APN: 3376-006-012

RECORDED	INSTRUMENT	GRANTEE	GRANTOR
June 13, 2012	2012-880921	MAKS Properties	Ossama Elassaad
December 28, 2005	2005-3199338	Ossama Elassaad	Nour Enterprises, Inc.
July 17, 2003	2003-2044011	Nour Enterprises, Inc.	M. E. Development, Inc.
December 31, 2002	2002-3230002	M. E. Development, Inc.	Amira H. Elassaad
October 15, 2001	2001-1957836	Amira H. Elassaad	Los Angeles County Treasurer and Tax Collector
May 25, 1993	1993-990582	Sen Van Ly	Xe Van Ly
March 23, 1988	1988-393402	Xe Van Ly	Principal Land Investments
March 23, 1988	1988-392882	Principal Land Investments	A.L. Arnold, Gerald L. Cobb

APN: 3376-011-035

RECORDED	INSTRUMENT	GRANTEE	GRANTOR
December 27, 2021	2021-1909493	Toni Roma Investments, LLC	Garik Tony Aroutiounian and Roma Kalantaryan
February 09, 2021	2021-224892	Garik Tony Aroutiounian and Roma Kalantaryan	John E. Houghton and Jacqueline D. Houghton
August 05, 2004	2004-2014000	John E. Houghton and Jacqueline D. Houghton	Dale E. Howard and Bonnie J. Howard, as Trustees of the Dale E. Howard and Bonnie J. Howard Family Trust
March 16, 1983	1983-294542	Dale E. Howard and Bonnie J. Howard	Dale E. Howard and Bonnie J. Howard
February 09, 1982	1982-148966	Dale E. Howard and Bonnie J. Howard	Dale E. Howard and Bonnie J. Howard and Emmett M. Howard

The EDR Lien and AUL report is presented in Appendix D.

4.2 Clean-Up Liens

No knowledge of any clean-up liens against the Site was reported by the Client/User. Furthermore, the EDR Environmental Lien and AUL Search report did not identify any environmental liens for the Site (Appendix D).

4.3 Activities and Use Limitations

No knowledge of any activities and use limitations against the Site were reported by the Client/User. Furthermore, the EDR Environmental Lien and AUL Search report did not identify any activities and use limitations for the Site (Appendix D).

4.4 Specialized Knowledge

No specialized knowledge identifying evidence of a REC was disclosed by the Client/User during this assessment.

4.5 Commonly Known Information

No commonly known information identifying evidence of a REC was disclosed by the Client/User during this assessment.

5 RECORDS REVIEW

5.1 Governmental Databases

NV5 contracted EDR to perform a radius search of governmental databases for this project. The distribution of listed sites with respect to the Site is tabulated and mapped in the EDR Report, which can be found in Appendix B. The reader is referred to the table, which can be found near the front of the EDR Report.

NV5 conducted a review of the above-referenced database reports and provides the following findings based on sites that have the potential to impact the Site, with respect to the inferred northwesterly groundwater flow direction. Our findings are based on the assumption that a hazardous material released to the subsurface generally does not migrate laterally within unsaturated soil for a significant distance. Although a hazardous substance or petroleum product can migrate in groundwater in a generally down-gradient direction, there are limitations to this interpretation such as groundwater depth, soil lithology and other subsurface barriers.

5.1.1 Site Database Findings

The Site address was identified in the EDR Report, as further discussed below.

Facility Name & Address	**Dales Auto Clinic 44434 No. 90 East Lancaster, CA 93535**	**Site - Eastern Property**
Database(s) Listed: HIST UST, Los Angeles Co. HMS, HWTS		
According to the HIST UST database, this facility was previously identified as the location of a 550-gallon waste oil UST. According to the Los Angeles County HMS database, this facility was registered with Los Angeles County as a permitted UST facility. The status was identified as “removed.” Permit records associated with this tank (See Section 5.2), indicated that this tank was actually an aboveground storage tank, located in a subterranean concrete vault. This tank has been subsequently removed. According to the HWTS database, this facility previously maintained a hazardous waste generator identification number. The generator status is listed as “inactive.” No spills, leaks, or releases were reported at this facility. These listings are not considered to represent an REC.		

Facility Name & Address	**DRC Pump Systems Inc. 44434 No. 90 East Lancaster, CA 93535**	**Site - Eastern Property**
Database(s) Listed: HWTS, FINDS, ECHO, RCRA NonGen		
According to these databases, this facility previously maintained a hazardous waste generator identification number. The generator status is listed as “inactive” as of 2020. No violations, spills, leaks, or releases were reported at this facility. These listings are not considered to represent an REC.		

5.1.2

5.1.3 Adjoining Property Database Findings

One of the adjoining property addresses was identified in EDR's report, as further discussed below.

Facility Name & Address	**Petro Lock Inc. (FAC #20)/Big Nine Market 8841 E. Avenue J Lancaster, CA 93534**	**Southern Adjoining Property**
Database(s) Listed: CERS TANKS, HIST UST, UST, CERS HAZ WASTE, RCRA NonGen/NLR, UST FINDER RELEASE, LUST, SWEEPS UST, CORTESE, CERS		
According to the CERS TANKS database, this facility was identified as a registered location of a UST system. A notice of violation was issued to this facility in 2023 for failure to implement corrections in a previous inspection report. The violation indicated that the property was vacant and that the tank excavation pit remained open and abandoned. Additional violations were previously issued between 2016 and 2022 for administrative and permitting related compliance issues. Most of the inspection reports noted that the facility was abandoned and the UST systems were not in use. According to the HIST UST, SWEEPS UST, and UST databases, three 8,000-gallon gasoline USTs were installed at this facility in 1976 and removed in 1999. Two additional 10,000-gallon USTs were installed at this facility in 1999. File information reviewed on the State of California Geotracker webpage indicated that these UST systems are/were located approximately 160 feet south of the southern property boundary. According to the UST FINDER RELEASE, CORTESE, CERS, and LUST databases, a release of gasoline into the soil was reported at this facility in 1999. The release was granted case closure/no further action status in 2007. According to the CERS HAZ WASTE database, this facility was registered as a generator of hazardous waste. According to the RCRA NonGen/NLR database, this facility reported that generation of hazardous waste at this facility ceased after 2020. No hazardous waste generation violations were reported. Based on the separation distance of the UST systems from the Site, reported depth to groundwater, and available regulatory information (See Section 5.2), these listings are not considered to represent a REC with respect to the Site.		

5.1.4 General Vicinity Database Findings

EDR's report identified multiple off-site facilities within applicable ASTM search radii. NV5 considered all of the listed sites unlikely to impact the Site based upon factors including (but not limited to):

- The nature of the listing;
- The use of the facility;
- When the facility was listed and its current listed status;
- The developmental density of the setting;
- The distance between the listed facilities and the Site as related to the distance that releases are likely to migrate based on local surface and subsurface drainage conditions;
- The presence of intervening drainage divides; and/or
- The inferred groundwater movement.

5.2 Regional Agency Offices

NV5 submitted information requests to the various county and regional agencies that may have records with regard to environmentally oriented concerns affecting the Site, in accordance with ASTM E1527-21

requirements. Should significant records be identified at a later date, an addendum to this report will be issued. Documentation obtained from regulatory agency requests is presented in Appendix C.

Agency	Records Summary
State of California Water Resources Control Board – GeoTracker	No records or listings for the Site were identified. Records published on the Geotracker database related to the Southern Adjoining Property are further discussed below. In 1999, three 8,000-gallon gasoline USTs were removed from the property. During removal, evidence of a release of gasoline was identified in soil samples collected from beneath the former USTs and fuel dispensers. Additional soil sampling was subsequently conducted at this facility in 2003. Trace concentrations of petroleum hydrocarbons were detected in soil samples collected at depths as great as 90 feet below ground surface. Petroleum hydrocarbons were not detected in the sample collected at a depth of 120 feet below ground surface. None of the detected concentrations of petroleum hydrocarbons exceeded applicable health risk screening levels. Groundwater was not encountered during sampling. Based on the results of the 2003 sampling event, case closure/no further action status was granted to this release in 2007.
Los Angeles County Fire Department	Inspection records associated with the property located at 44334 90th Street East property are summarized below. 2021 – No violations identified. DRC Pump systems noted to have closed. All hazardous materials were noted to have been removed. 2017 – Violations were issued for the following items: • Failure to obtain a hazardous waste generator identification number prior to disposal of hazardous waste. • Failure to dispose of three 55-gallon drums of waste oil within 180 days of accumulation. • Failure to label the waste oil drums with hazardous waste labels. • One waste oil drum was observed to be heavily rusted. • Failure to update and submit a hazardous materials business plan. • Storage of propane gas in a damaged cylinder. 2012 – A violation was issued for failure to pay annual permit fees.

Agency	Records Summary
Los Angeles County Public Works	Records related to the Site that were provided to NV5 by this agency are summarized below. **Dales Auto Clinic** Permit records indicated that in 1986, two USTs were registered at the property address. However, subsequent inspection reports and correspondence clarified the permit records to indicate that only one UST was present at the Site. It was noted that the UST was actually an aboveground storage tank (AST) located within a subterranean vault. The vault and tank were previously located approximately 8 feet east of the garage building located on the southern portion of the Site.
City of Lancaster	No building permit records for the Site's APNs were identified during a search of the City of Lancaster online permit record system.
Los Angeles County Department of Public Health	According to records received from this agency, a septic tank was installed adjacent to the southwest corner of garage building located on the 44434 90th Street East property in 1960. The current condition of the septic tank is unknown; however, based on the use of the tank (domestic sewage), its potential presence is not considered to represent an REC.

5.3 Historical Records

NV5 used USGS topographic (Topo) maps, aerial photographs, fire insurance maps, and historical street directories to provide information about the history of the Site and its surroundings. The resources NV5 reviewed are tabulated as follows and presented in Appendix E.

Historical Resources		
Source Type	**Years Reviewed**	**Source**
USGS Topo Maps	1930, 1933, 1945, 1957, 1974, 1989, 1992, 2012, 2015, 2018, and 2021	USGS/EDR
Aerial Photograph(s)	1928, 1940, 1948, 1953, 1968, 1977, 1979, 1981, 1983, 1994, 2003, 2005, 2010, 2014, 2018, and 2022	EDR
Fire Insurance (Sanborn) Maps	No Coverage Letter	EDR
Street Directories	1971, 1976, 1982, 1987, 1992, 1995, 2000, 2005, 2010, 2014, 2017, and 2020	EDR

5.4 Past Uses – Site

Our interpretation of past uses of the Site, based on the historical data sources listed previously, are tabulated below.

Eastern Site Property – APN 3376-011-035

Date	Interpreted Property Use
1928 to 1953	Aerial photographs and Topo maps depict the Site as being undeveloped land.
1968	An aerial photograph depicts the Site to be developed with a single rectangular building.
1971 to 2022	Aerial photographs depict the Site to be developed with the present-day commercial buildings. Historical city directories identified the following past tenants of the Site. 44434 90th Street East • John Houghton (2020) • DRC Pump Systems (2010 to 2020) • Dales Auto Clinic (1971 to 1995)

Western Site Property – APN 3376-006-012

Date	Interpreted Property Use
1928 to 2022	Aerial photographs and topo maps depict the Site as being undeveloped land.

5.5 Past Uses – Adjoining Properties

Our interpretation of past uses of the adjoining properties, based on the historical data sources listed previously, are tabulated as follows.

Date	Description
Northern Adjoining Property – West of 90 Street East	
1928 to 2022	Aerial photographs and Topo maps depict the property as being undeveloped land.
Northern Adjoining Property – East of 90 Street East	
1928 to 2022	Aerial photographs and Topo maps depict the property as being undeveloped land.
Eastern Adjoining Property	
1928 to 2014	Aerial photographs and Topo maps depict the property as being undeveloped land.
2018 to 2022	Aerial photographs depict the property as undeveloped land used for vehicle or exterior equipment storage.
Western Adjoining Property	
1928 to 2022	Aerial photographs and Topo maps depict the property as being undeveloped land. Portions of the property appear to be cultivated for agricultural use between 1940 and 1953.

Date	Description
Southern Adjoining Property – East of 90th Street	
1928 to 1948	Aerial photographs and Topo maps depict the property as being undeveloped land.
1953 to 1968	Aerial photographs depict the property to be developed with a small structure.
1977 to 2022	Aerial photographs depict the property to be developed with the present-day electrical substation.
Southern Adjoining Property – West of 90th Street	
1928 to 1940	Aerial photographs and Topo maps depict the property as being undeveloped land.
1948 to 1953	Aerial photographs depict the property to be developed with what appear to be small residential homes.
1968 to 2022	Aerial photographs depict the property to be developed with the present-day market and gasoline station structures. Historical city directories reviewed during this assessment did not list the property address.

5.6 Interviews

NV5 interviewed parties potentially having information about current and/or former conditions at the Site. The parties and their affiliation are listed in the following table.

Interviews		
Name	**Affiliation**	**Role**
Mr. Max Margolin	Upstream Energy, Director of Development	Client/User

- Mr. Margolin arranged for Site access, provided basic site information, and completed the User Questionnaire. Mr. Margolin also provided information obtained from the property owner of the site parcel located at 44434 90th Street East.

6 NON-SCOPE CONSIDERATIONS

Per the authorized scope of work, items beyond the scope of ASTM E 1527-21 were not addressed as part of this assessment.

7 VAPOR ENCROACHMENT SCREENING

ASTM E1527 requires the Environmental Professional to evaluate the potential for vapor encroachment of chemicals of concern (COC) onto the Site, and to determine if such vapor encroachment constitutes evidence of a REC on the Site. The E1527 Standard Practice does not specifically state the methods that must be used to screen for potential vapor encroachment issues. However, ASTM has developed a separate Standard Guide for Vapor Encroachment Screening on Property Involved in Real Estate Transactions (ASTM E2600-22), which outlines an ASTM E1527 compliant methodology to conduct vapor encroachment screening that was used for this assessment as described below.

7.1 VES Methodology

The goal of conducting Vapor Encroachment Screening (VES) is to identify a vapor encroachment condition (VEC), which is defined as the presence or likely presence of chemicals of concern (COC) vapors in the vadose zone of the Site caused by the release of vapors from contaminated soil and/or groundwater either on or near the Site. If a VEC is identified, the Environmental Professional must determine whether the VEC represents evidence of a REC on the Site under the context of the Phase I ESA Standard Practice. It should be noted that the identification of a VEC on the Site does not necessarily indicate that a potential for migration of vapors into existing or proposed structures on the Site is likely. The Environmental Professional will identify the VEC as a REC where the potential for vapor migration into structures is considered likely, or where the contaminant concentrations in the soil, groundwater, or soil vapors on the Site are significant and likely to result in enforcement against on-site or off-site responsible parties.

The VES utilizes information regarding the potential presence of releases on or near the Site that were collected as a normal part of the Phase I ESA process, such as governmental database records, review of governmental files, historical data sources, etc. The VES Standard Guide requires the Environmental Professional to search for potential sites of concern within specific search radii. The area of concern search radius is 1,760 feet (1/3 mile) for non-petroleum-impacted sites and 528 feet (1/10 miles) for petroleum-impacted sites. The default search distances may be expanded or reduced in the upgradient, downgradient, or cross-gradient directions by the Environmental Professional based on experience in the local area and applying professional judgment to factors such as where a well-defined regional groundwater flow direction is identified, or whether other geologic features such as low permeability soils or hydrogeologic boundaries such as rivers or streams exist which would tend to limit the potential for migration of groundwater or vapors in a particular direction.

7.2 VES Search Results

No potential concerns were identified within the VES search radii.

8 FINDINGS

Based on the Site reconnaissance, review of historical and available documents, and interviews, NV5 finds the following:

8.1 Current Site Activities

The eastern Site parcel is currently developed with two vacant commercial buildings, and the western Site parcel is undeveloped vacant land.

8.2 Historical Site Activities

The western Site parcel does not appear to have been previously developed. The eastern Site parcel was first developed for commercial use in the 1960s. This Site parcel was occupied by an automotive repair business from the 1970s to the mid-1990s, a pump system repair business from the 2010s to 2020, and a marijuana cultivation business in the early 2020s.

8.3 Off-Site Activities

The Site is located within an area developed for agricultural use. Current uses of adjoining properties include a vacant gasoline station and market to the south of the Site, on the west side of 90th Street East, and a Southern California Edison electrical substation to the south of the Site, on the east side of 90th Street East. The remaining adjoining properties are undeveloped land.

8.4 Data-Gaps

The ASTM Standard defines a data gap as "a lack of or inability to obtain information required by the practice despite good faith efforts by the Environmental Professional to gather such information." A data gap is only significant if other information obtained during the ESA, or professional experience, raises reasonable concerns and affects the ability of the Environmental Professional to identify whether a given issue is a REC. The ASTM Standard requires that the ESA report identify and comment on significant data gaps. No data gaps were identified by NV5 during this assessment.

9 CONCLUSIONS AND RECOMMENDATIONS

NV5 completed a Phase I ESA of the two properties identified by Los Angeles County Assessor's Parcel Numbers (APNs) 3376-011-035 and 3376-006-012 located in the City of Lancaster, Los Angeles County, California (Site). The ESA was performed in conformance with the scope and limitations of the ASTM E1527-21 standard. Any exceptions to, or deletions from, this practice are described in Section 1.0 of this report. The assessment was performed to identify conditions indicative of releases and threatened releases of hazardous substances and petroleum products on, at, in, or to the Site.

RECs

No evidence of a REC, Controlled REC (CREC) or Historic REC (HREC) in connection with the Site was identified during this assessment.

Vapor Encroachment Conditions (VEC)

A Tier 1 vapor encroachment screen (VES) for potential chemicals of concern (COC) was completed for the Site. The assessment was based on the ASTM published Standard Guide E 2600-22. The purpose of the VES was to evaluate the potential for a vapor encroachment condition (VEC) which is the presence or likely presence of COC vapors in subsurface soils at the Site caused by the release of vapors from contaminated soil or groundwater on or near the Site. No potential concerns were identified within the VES search radii.

Environmental Conditions of Note

One in-ground hydraulic lift is present within the vacant automotive garage building located on the eastern portion of the Site. No evidence of a leak or release from the lift was reported.

Several empty 55-gallon drums and containers (less than five gallons in size) that were previously used to contain waste oil were observed throughout the eastern Site parcel. Additionally, several small containers of various plant nutrients were observed throughout the eastern Site parcel.

Recommendations

If no longer in use, NV5 recommends that the in-ground hydraulic lift be properly removed from the Site. NV5 also recommends that the observed empty drums and storage containers be properly shipped off-site for disposal.

10 QUALIFICATIONS AND SIGNATURE

I declare that, to the best of my professional knowledge and belief, I meet the definition of Environmental Professional as defined in 40 CFR 312.10. I have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the Site. I have developed and performed the All-Appropriate Inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.



ERIC FRASKE, PE
SENIOR PROJECT MANAGER

Resume and other supporting documentation are maintained on file at NV5.

Figures

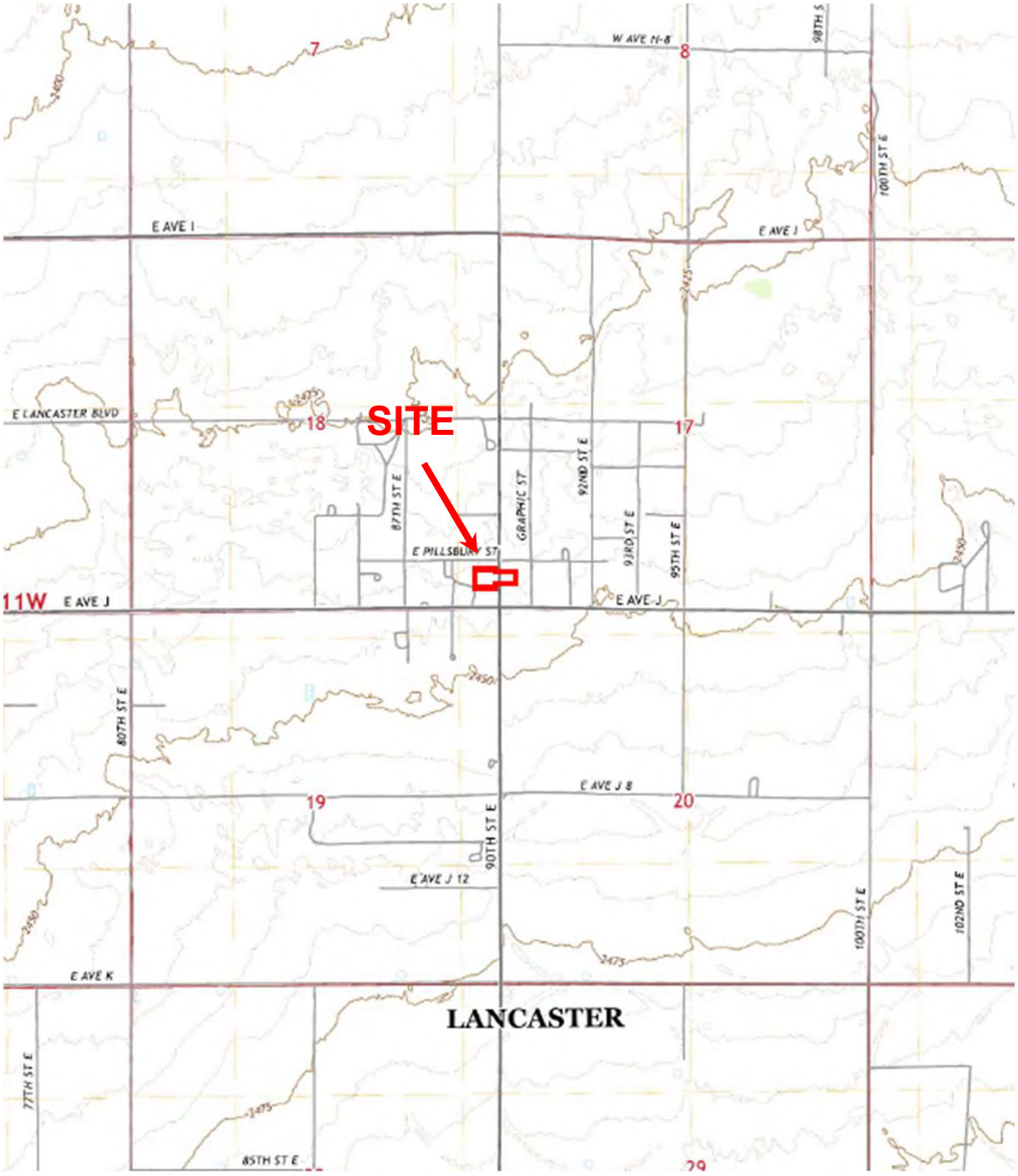
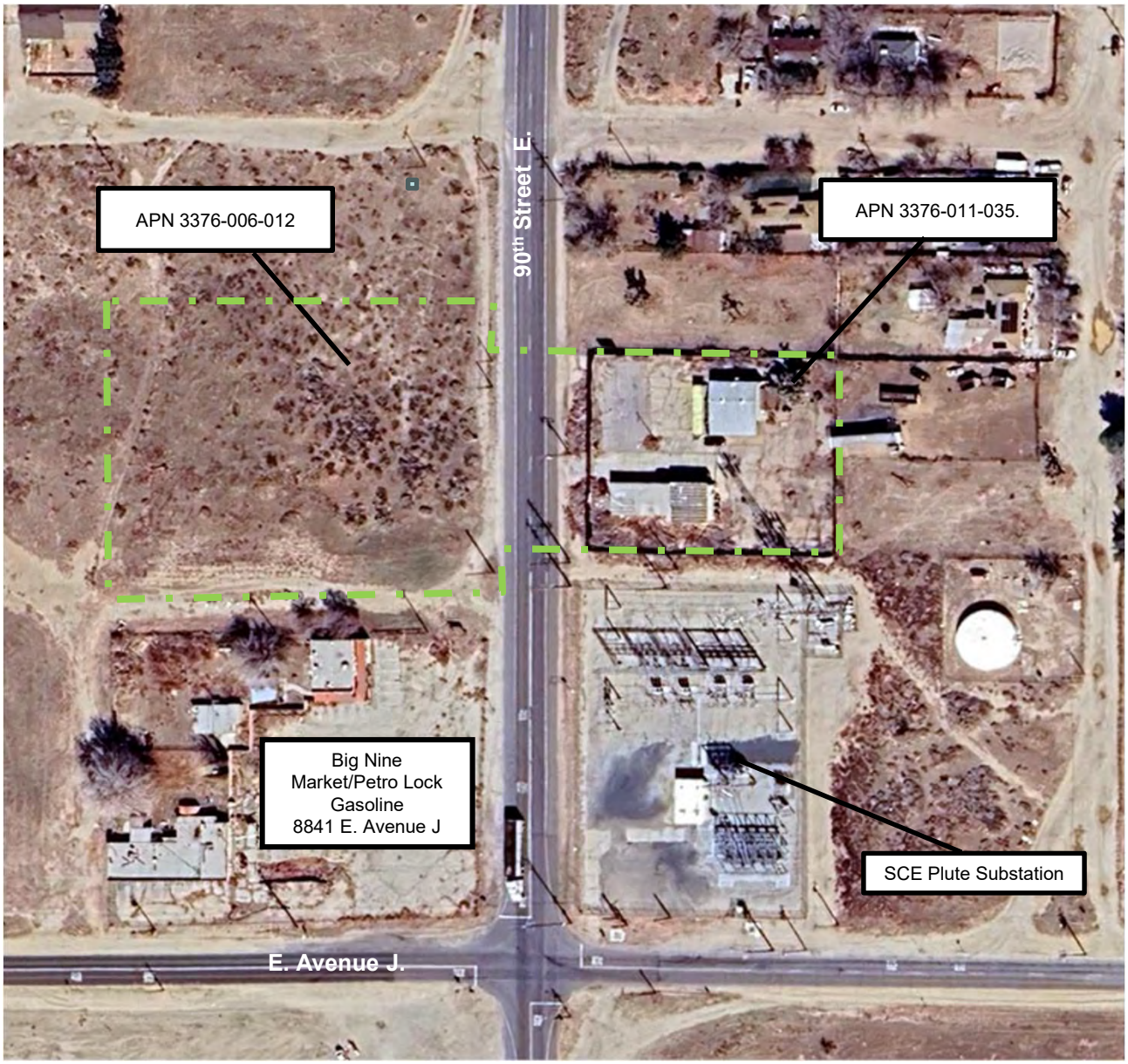


Figure 1: Site Location Map

CLIENT: Upstream Renewable Dev I LLC	Site Location: 44434 90th Street East Lancaster, CA 93535
PROJECT #:4470425-0007958.00	

DRAWN: EF	APPROVED :EF	NORTH
SCALE: NOT TO SCALE	DATE: 7/13/25	



Approximate Site Boundary

Figure 2: Site Vicinity Map

CLIENT: Upstream Renewable Dev I LLC	Site Location: 44434 90th Street East Lancaster, CA 93535
PROJECT #:4470425-0007958.00	

DRAWN: EF	APPROVED : EF	NORTH
SCALE: NOT TO SCALE	DATE: 7/13/25	

Appendix A

Representative Site Photographs

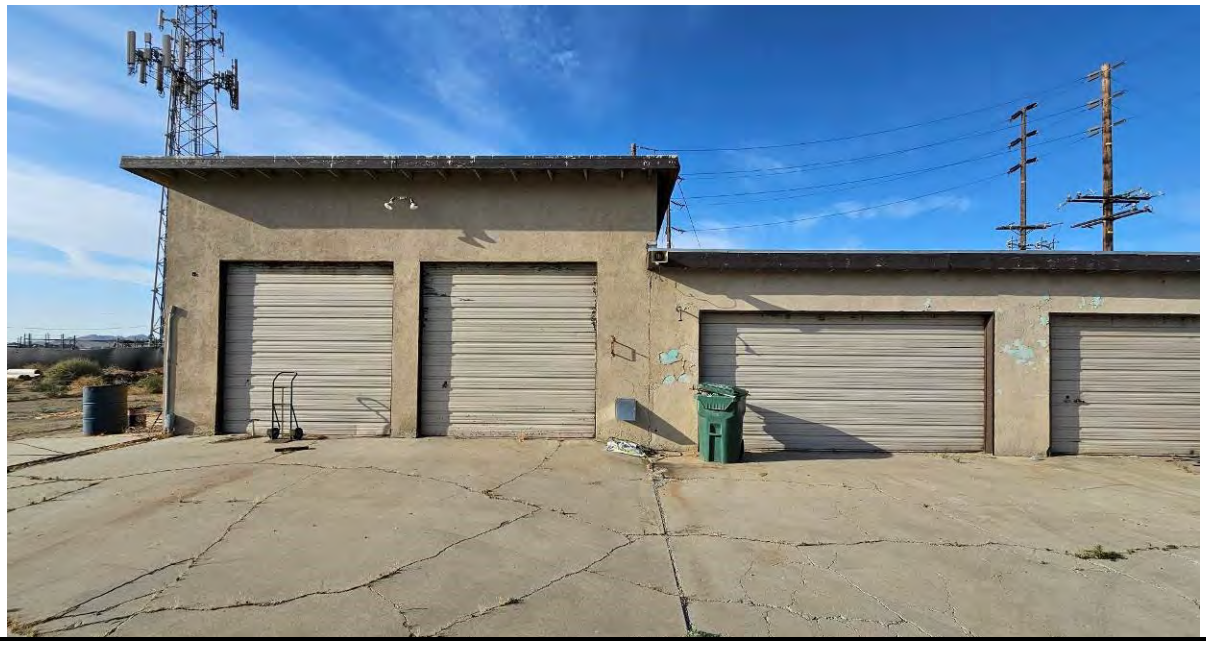


Photo 1: Garage Repair Building Located on Southern Portion of Eastern Site Parcel Facing South



Photo 2: Building Located on Northern Portion of Eastern Site Parcel Facing North



Photo 3: Western Site Parcel Facing West



Photo 4: Southeastern Adjoining Property – SCE Electrical Substation



Photo 5: Southwestern Adjoining Market and Gasoline Station



Photo 6: Eastern Adjoining Property



Photo 7: Western Adjoining Property



Photo 8: Northeastern Adjoining Property



Photo 9: Northwestern Adjoining Property



Photo 10: Waste Oil Drum and Container Observed on Eastern Site Parcel



Photo 11: Plant Nutrient/Chemical Containers Observed Within Eastern Site Parcel Building



Photo 12: Mixing ASTs Observed Within Eastern Site Parcel Building



Photo 13: Location of Former AST and Vault



Photo 14: Interior of Eastern Site Parcel Building

Appendix B

EDR Radius Report with GeoCheck

Lancaster Properties
44434 90TH ST E
LANCASTER, CA 93535

Inquiry Number: 8020014.2s
June 16, 2025

The EDR Radius Map™ Report with GeoCheck®

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

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Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E1527 - 21), the ASTM Standard Practice for Environmental Site Assessments for Forestland or Rural Property (E2247 - 16), the ASTM Standard Practice for Limited Environmental Due Diligence: Transaction Screen Process (E1528 - 22) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

44434 90TH ST E
LANCASTER, CA 93535

COORDINATES

Latitude (North):	34.6914150 - 34° 41' 29.09''
Longitude (West):	117.9698850 - 117° 58' 11.58''
Universal Tranverse Mercator:	Zone 11
UTM X (Meters):	411161.9
UTM Y (Meters):	3839054.5
Elevation:	2450 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	50005266 ALPINE BUTTE, CA
Version Date:	2021

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from:	20220424, 20220507
Source:	USDA

MAPPED SITES SUMMARY

Target Property Address:
44434 90TH ST E
LANCASTER, CA 93535

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
A1	DALES AUTO CLINIC AN	44434 NO 90 EAST	HIST UST		TP
A2	DRC PUMP SYSTEMS INC	44434 90TH ST E	HWTS		TP
A3	DALES AUTO CLINIC &	44434 90TH ST E	HIST UST		TP
A4	DRC PUMP SYSTEMS INC	44434 90TH ST E	FINDS, ECHO		TP
A5	DALES AUTO CLINIC	44434 90TH ST EAST	LOS ANGELES CO. HMS		TP
A6	DRC PUMP SYSTEMS INC	44434 90TH ST E	RCRA NonGen / NLR		TP
A7	DALE'S AUTO CLINIC	44434 90TH ST	HWTS		TP
B8	PETRO LOCK INC (FAC	8841 E AVENUE J	CERS TANKS	Higher	446, 0.084, WSW
B9	BIG NINE MARKET	8841 EAST AVENUE J	HIST UST	Higher	446, 0.084, WSW
B10	PETRO LOCK INC (FAC	8841 E AVENUE J	CERS HAZ WASTE	Higher	446, 0.084, WSW
B11	PETRO LOCK INC (FAC	8841 E AVENUE J	UST	Higher	446, 0.084, WSW
B12	PETRO LOCK INC FAC S	8841 E AVE J	RCRA NonGen / NLR	Higher	446, 0.084, WSW
B13	PETRO LOCK INC (FAC	8841 E AVENUE J	UST FINDER	Higher	446, 0.084, WSW
B14	BIG NINE MARKET	8841 E AVE J	UST FINDER RELEASE	Higher	446, 0.084, WSW
B15	BIG NINE MARKET	8841 E AVENUE J	UST	Higher	446, 0.084, WSW
B16	BIG NINE MARKET	8841 E AVE J	LUST, SWEEPS UST, Cortese, CERS	Higher	446, 0.084, WSW
17	44536 GRAPHIC STREET	44536 GRAPHIC STREET	RCRA NonGen / NLR, E MANIFEST	Lower	657, 0.124, NE
18	007N010W18R002S		PFAS WQP	Lower	706, 0.134, NW

EXECUTIVE SUMMARY

TARGET PROPERTY SEARCH RESULTS

The target property was identified in the following records. For more information on this property see page 9 of the attached EDR Radius Map report:

Site	Database(s)	EPA ID
DALES AUTO CLINIC AN 44434 NO 90 EAST LANCASTER, CA 93535	HIST UST	N/A
DRC PUMP SYSTEMS INC 44434 90TH ST E LANCASTER, CA 93535	HWTS	N/A
DALES AUTO CLINIC & 44434 90TH ST E LANCASTER, CA 93535	HIST UST Facility Id: 00000020543	N/A
DRC PUMP SYSTEMS INC 44434 90TH ST E LANCASTER, CA 93535	FINDS Registry ID:: 110070427030 ECHO Registry ID: 110070427030	N/A
DALES AUTO CLINIC 44434 90TH ST EAST LANCASTER, CA 93535	LOS ANGELES CO. HMS Facility ID: 011804-011869	N/A
DRC PUMP SYSTEMS INC 44434 90TH ST E LANCASTER, CA 93535	RCRA NonGen / NLR EPA ID:: CAL000431867	CAL000431867
DALE'S AUTO CLINIC 44434 90TH ST LANCASTER, CA 93535	HWTS	N/A

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

STANDARD ENVIRONMENTAL RECORDS

Lists of Federal NPL (Superfund) sites

NPL ---------- National Priority List

EXECUTIVE SUMMARY

Proposed NPL ..... Proposed National Priority List Sites
NPL LIENS ..... Federal Superfund Liens

Lists of Federal Delisted NPL sites

Delisted NPL ..... National Priority List Deletions

Lists of Federal sites subject to CERCLA removals and CERCLA orders

FEDERAL FACILITY ..... Federal Facility Site Information listing
SEMS ..... Superfund Enterprise Management System

Lists of Federal CERCLA sites with NFRAP

SEMS-ARCHIVE ..... Superfund Enterprise Management System Archive

Lists of Federal RCRA facilities undergoing Corrective Action

CORRACTS ..... Corrective Action Report

Lists of Federal RCRA TSD facilities

RCRA-TSDF ..... RCRA - Treatment, Storage and Disposal

Lists of Federal RCRA generators

RCRA-LQG ..... RCRA - Large Quantity Generators
RCRA-SQG ..... RCRA - Small Quantity Generators
RCRA-VSQG ..... RCRA - Very Small Quantity Generators (Formerly Conditionally Exempt Small Quantity Generators)

Federal institutional controls / engineering controls registries

LUCIS ..... Land Use Control Information System
US ENG CONTROLS ..... Engineering Controls Sites List
US INST CONTROLS ..... Institutional Controls Sites List

Federal ERNS list

ERNS ..... Emergency Response Notification System

Lists of state- and tribal (Superfund) equivalent sites

RESPONSE ..... State Response Sites

Lists of state- and tribal hazardous waste facilities

ENVIROSTOR ..... EnviroStor Database

Lists of state and tribal landfills and solid waste disposal facilities

SWF/LF ..... Solid Waste Information System

Lists of state and tribal leaking storage tanks

INDIAN LUST ..... Leaking Underground Storage Tanks on Indian Land

CPS-SLIC ---- Statewide SLIC Cases

Lists of state and tribal registered storage tanks

FEMA UST ---- Underground Storage Tank Listing
AST ---- Aboveground Petroleum Storage Tank Facilities
INDIAN UST ---- Underground Storage Tanks on Indian Land

Lists of state and tribal voluntary cleanup sites

INDIAN VCP ---- Voluntary Cleanup Priority Listing
VCP ---- Voluntary Cleanup Program Properties

Lists of state and tribal brownfield sites

BROWNFIELDS ---- Considered Brownfieds Sites Listing

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS ---- A Listing of Brownfields Sites

Local Lists of Landfill / Solid Waste Disposal Sites

WMUDS/SWAT ---- Waste Management Unit Database
SWRCY ---- Recycler Database
HAULERS ---- Registered Waste Tire Haulers Listing
INDIAN ODI ---- Report on the Status of Open Dumps on Indian Lands
DEBRIS REGION 9 ---- Torres Martinez Reservation Illegal Dump Site Locations
ODI ---- Open Dump Inventory
IHS OPEN DUMPS ---- Open Dumps on Indian Land

Local Lists of Hazardous waste / Contaminated Sites

AOCONCERN ---- Key Areas of Concerns in Los Angeles County
US HIST CDL ---- Delisted National Clandestine Laboratory Register
HIST Cal-Sites ---- Historical Calsites Database
SCH ---- School Property Evaluation Program
CDL ---- Clandestine Drug Labs
Toxic Pits ---- Toxic Pits Cleanup Act Sites
US CDL ---- National Clandestine Laboratory Register

Local Lists of Registered Storage Tanks

CA FID UST ---- Facility Inventory Database

Local Land Records

LIENS ---- Environmental Liens Listing
LIENS 2 ---- CERCLA Lien Information
DEED ---- Deed Restriction Listing

Records of Emergency Release Reports

HMIRS ---- Hazardous Materials Information Reporting System

CHMIRS	California Hazardous Material Incident Report System
LDS	Land Disposal Sites Listing
MCS	Military Cleanup Sites Listing
SPILLS 90	SPILLS 90 data from FirstSearch

Other Ascertainable Records

FUDS	Formerly Used Defense Sites
DOD	Department of Defense Sites
SCRD DRYCLEANERS	State Coalition for Remediation of Drycleaners Listing
US FIN ASSUR	Financial Assurance Information
EPA WATCH LIST	EPA WATCH LIST
2020 COR ACTION	2020 Corrective Action Program List
TSCA	Toxic Substances Control Act
TRIS	Toxic Chemical Release Inventory System
SSTS	Section 7 Tracking Systems
ROD	Records Of Decision
RMP	Risk Management Plans
RAATS	RCRA Administrative Action Tracking System
PRP	Potentially Responsible Parties
PADS	PCB Activity Database System
ICIS	Integrated Compliance Information System
FTTS	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
MLTS	Material Licensing Tracking System
COAL ASH DOE	Steam-Electric Plant Operation Data
COAL ASH EPA	Coal Combustion Residues Surface Impoundments List
PCB TRANSFORMER	PCB Transformer Registration Database
RADINFO	Radiation Information Database
HIST FTTS	FIFRA/TSCA Tracking System Administrative Case Listing
DOT OPS	Incident and Accident Data
CONSENT	Superfund (CERCLA) Consent Decrees
INDIAN RESERV	Indian Reservations
FUSRAP	Formerly Utilized Sites Remedial Action Program
UMTRA	Uranium Mill Tailings Sites
LEAD SMELTERS	Lead Smelter Sites
US AIRS	Aerometric Information Retrieval System Facility Subsystem
US MINES	Mines Master Index File
MINES MRDS	Mineral Resources Data System
ABANDONED MINES	Abandoned Mines
UXO	Unexploded Ordnance Sites
DOCKET HWC	Hazardous Waste Compliance Docket Listing
FUELS PROGRAM	EPA Fuels Program Registered Listing
PFAS NPL	Superfund Sites with PFAS Detections Information
PFAS FEDERAL SITES	Federal Sites PFAS Information
PFAS TSCA	PFAS Manufacture and Imports Information
PFAS TRIS	List of PFAS Added to the TRI
PFAS RCRA MANIFEST	PFAS Transfers Identified In the RCRA Database Listing
PFAS ATSDR	PFAS Contamination Site Location Listing
PFAS PROJECT	NORTHEASTERN UNIVERSITY PFAS PROJECT
PFAS NPDES	Clean Water Act Discharge Monitoring Information
PFAS ECHO	Facilities in Industries that May Be Handling PFAS Listing
PFAS ECHO FIRE TRAIN	Facilities in Industries that May Be Handling PFAS Listing
PFAS PT 139 AIRPORT	All Certified Part 139 Airports PFAS Information Listing
AQUEOUS FOAM NRC	Aqueous Foam Related Incidents Listing

EXECUTIVE SUMMARY

BIOSOLIDS ICIS-NPDES Biosolids Facility Data
PFAS PFAS Investigation Site Location Listing
AQUEOUS FOAM Former Fire Training Facility Assessments Listing
CA BOND EXP. PLAN Bond Expenditure Plan
CHROME PLATING Chrome Plating Facilities Listing
CUPA Listings CUPA Resources List
DRYCLEANERS Cleaner Facilities
EMI Emissions Inventory Data
ENF Enforcement Action Listing
Financial Assurance Financial Assurance Information Listing
ICE Inspection, Compliance and Enforcement
HIST CORTESE Hazardous Waste & Substance Site List
HWP EnviroStor Permitted Facilities Listing
HWT Registered Hazardous Waste Transporter Database
HAZNET Facility and Manifest Data
LA CO LF METHANE Methane Producing Landfills
MINES Mines Site Location Listing
MWMP Medical Waste Management Program Listing
NPDES NPDES Permits Listing
PEST LIC Pesticide Regulation Licenses Listing
PROC Certified Processors Database
Notify 65 Proposition 65 Records
HAZMAT LA Active & Inactive Hazardous Materials Inventory
HAZMAT Hazardous Material Facilities
Site Mitigation Site Mitigation List
UIC UIC Listing
UIC GEO UIC GEO (GEOTRACKER)
WASTEWATER PITS Oil Wastewater Pits Listing
WDS Waste Discharge System
WIP Well Investigation Program Case List
MILITARY PRIV SITES MILITARY PRIV SITES (GEOTRACKER)
PROJECT PROJECT (GEOTRACKER)
WDR Waste Discharge Requirements Listing
CIWQS California Integrated Water Quality System
CERS CERS
NON-CASE INFO NON-CASE INFO (GEOTRACKER)
OTHER OIL GAS OTHER OIL & GAS (GEOTRACKER)
PROD WATER PONDS PROD WATER PONDS (GEOTRACKER)
SAMPLING POINT SAMPLING POINT (GEOTRACKER)
WELL STIM PROJ Well Stimulation Project (GEOTRACKER)

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP EDR Proprietary Manufactured Gas Plants
EDR Hist Auto EDR Exclusive Historical Auto Stations
EDR Hist Cleaner EDR Exclusive Historical Cleaners

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA LF Recovered Government Archive Solid Waste Facilities List

EXECUTIVE SUMMARY

RGA LUST---------- Recovered Government Archive Leaking Underground Storage Tank

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.
Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

STANDARD ENVIRONMENTAL RECORDS

Lists of state and tribal leaking storage tanks

LUST: Leaking Underground Storage Tank (LUST) Sites included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

A review of the LUST list, as provided by EDR, has revealed that there is 1 LUST site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
BIG NINE MARKET	***8841 E AVE J***	***WSW 0 - 1/8 (0.084 mi.)***	***B16***	***44***
Database: LUST REG 6V, Date of Government Version: 06/07/2005				
Database: LUST, Date of Government Version: 02/24/2025				
Status: Completed - Case Closed				
Global Id: T0603799274				
Status: Preliminary site assessment underway				

Lists of state and tribal registered storage tanks

UST: The Underground Storage Tank database contains registered USTs. USTs are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA). The data come from the State Water Resources Control Board's Hazardous Substance Storage Container Database.

A review of the UST list, as provided by EDR, has revealed that there are 2 UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
PETRO LOCK INC (FAC	8841 E AVENUE J	WSW 0 - 1/8 (0.084 mi.)	B11	37
Database: UST, Date of Government Version: 03/03/2025				
Facility Id: LACoFA0004194				
BIG NINE MARKET	8841 E AVENUE J	WSW 0 - 1/8 (0.084 mi.)	B15	43
Database: UST, Date of Government Version: 03/03/2025				

EXECUTIVE SUMMARY

Facility Id: 20877

ADDITIONAL ENVIRONMENTAL RECORDS

Local Lists of Hazardous waste / Contaminated Sites

CERS HAZ WASTE: List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the Hazardous Chemical Management, Hazardous Waste Onsite Treatment, Household Hazardous Waste Collection, Hazardous Waste Generator, and RCRA LQ HW Generator programs.

A review of the CERS HAZ WASTE list, as provided by EDR, and dated 01/12/2025 has revealed that there is 1 CERS HAZ WASTE site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
PETRO LOCK INC (FAC	8841 E AVENUE J	WSW 0 - 1/8 (0.084 mi.)	B10	26

Local Lists of Registered Storage Tanks

SWEEPS UST: Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1990's. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

A review of the SWEEPS UST list, as provided by EDR, and dated 06/01/1994 has revealed that there is 1 SWEEPS UST site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
BIG NINE MARKET	***8841 E AVE J***	***WSW 0 - 1/8 (0.084 mi.)***	***B16***	***44***
Status: A				
Tank Status: A				
Comp Number: 11560				

HIST UST: Historical UST Registered Database.

A review of the HIST UST list, as provided by EDR, and dated 10/15/1990 has revealed that there is 1 HIST UST site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
BIG NINE MARKET	8841 EAST AVENUE J	WSW 0 - 1/8 (0.084 mi.)	B9	25
Facility Id: 00000033811				

CERS TANKS: List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the Aboveground Petroleum Storage and Underground Storage Tank regulatory programs.

A review of the CERS TANKS list, as provided by EDR, and dated 01/12/2025 has revealed that there is 1 CERS TANKS site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
PETRO LOCK INC (FAC	8841 E AVENUE J	WSW 0 - 1/8 (0.084 mi.)	B8	15

Other Ascertainable Records

RCRA NonGen / NLR: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

A review of the RCRA NonGen / NLR list, as provided by EDR, and dated 02/17/2025 has revealed that there are 2 RCRA NonGen / NLR sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
PETRO LOCK INC FAC S EPA ID:: CAL000426132	8841 E AVE J	WSW 0 - 1/8 (0.084 mi.)	B12	39

Lower Elevation	Address	Direction / Distance	Map ID	Page
44536 GRAPHIC STREET EPA ID:: CAC003176890	***44536 GRAPHIC STREET***	***NE 0 - 1/8 (0.124 mi.)***	***17***	***49***

PFAS WQP: The Water Quality Portal (WQP) is a part of a modernized repository storing ambient sampling data for all environmental media and tissue samples. A wide range of federal, state, tribal and local governments, academic and non-governmental organizations and individuals submit project details and sampling results to this public repository. The information is commonly used for research and assessments of environmental quality.

A review of the PFAS WQP list, as provided by EDR, and dated 03/03/2025 has revealed that there is 1 PFAS WQP site within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
007N010W18R002S		NW 1/8 - 1/4 (0.134 mi.)	18	53

UST FINDER RELEASE: US EPA's UST Finder data is a national composite of leaking underground storage tanks. This data contains information about, and locations of, leaking underground storage tanks. Data was collected from state sources and standardized into a national profile by EPA's Office of Underground Storage Tanks, Office of Research and Development, and the Association of State and Territorial Solid Waste Management Officials.

A review of the UST FINDER RELEASE list, as provided by EDR, and dated 06/08/2023 has revealed that

there is 1 UST FINDER RELEASE site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
BIG NINE MARKET	8841 E AVE J	WSW 0 - 1/8 (0.084 mi.)	B14	42

UST FINDER: EPA developed UST Finder, a web map application containing a comprehensive, state-sourced national map of underground storage tank (UST) and leaking UST (LUST) data. It provides the attributes and locations of active and closed USTs, UST facilities, and LUST sites from states and from Tribal lands and US territories . UST Finder contains information about proximity of UST facilities and LUST sites to: surface and groundwater public drinking water protection areas; estimated number of private domestic wells and number of people living nearby; and flooding and wildfires.

A review of the UST FINDER list, as provided by EDR, and dated 06/08/2023 has revealed that there is 1 UST FINDER site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
PETRO LOCK INC (FAC	8841 E AVENUE J	WSW 0 - 1/8 (0.084 mi.)	B13	41

E MANIFEST: EPA established a national system for tracking hazardous waste shipments electronically. This system, known as ?e-Manifest,? will modernize the nation?s cradle-to-grave hazardous waste tracking process while saving valuable time, resources, and dollars for industry and states.

A review of the E MANIFEST list, as provided by EDR, and dated 02/17/2025 has revealed that there is 1 E MANIFEST site within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
44536 GRAPHIC STREET	***44536 GRAPHIC STREET***	***NE 0 - 1/8 (0.124 mi.)***	***17***	***49***

Cortese: The sites for the list are designated by the State Water Resource Control Board (LUST), the Integrated Waste Board (SWF/LS), and the Department of Toxic Substances Control (Cal-Sites).

A review of the Cortese list, as provided by EDR, and dated 03/17/2025 has revealed that there is 1 Cortese site within approximately 0.5 miles of the target property.

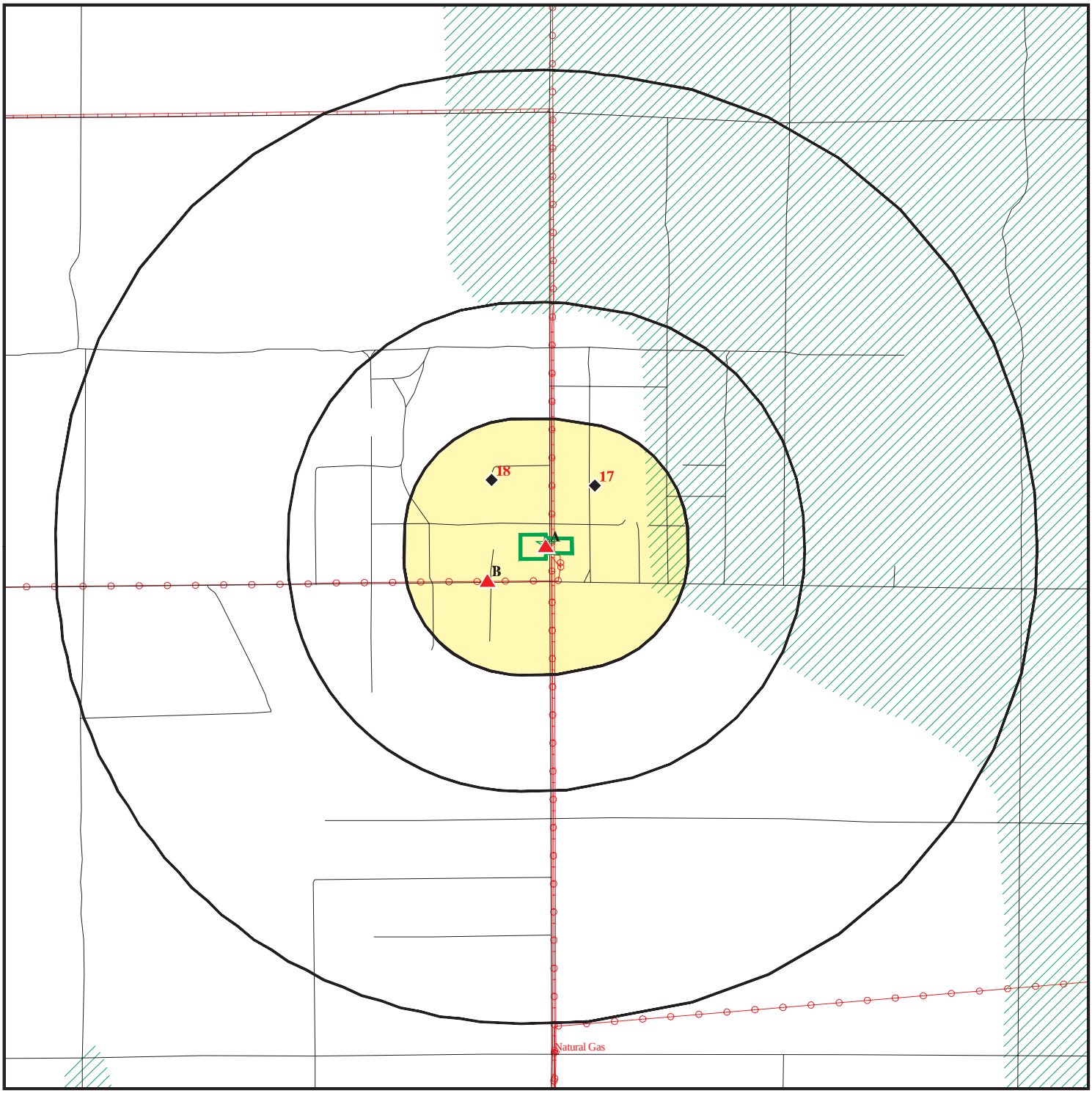
Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
BIG NINE MARKET	***8841 E AVE J***	***WSW 0 - 1/8 (0.084 mi.)***	***B16***	***44***
Cleanup Status: COMPLETED - CASE CLOSED				

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 1 records.

Site Name	Database(s)
ALADDIN CLEANERS, R.K. NATHA & D P	DRYCLEANERS

OVERVIEW MAP - 8020014.2S



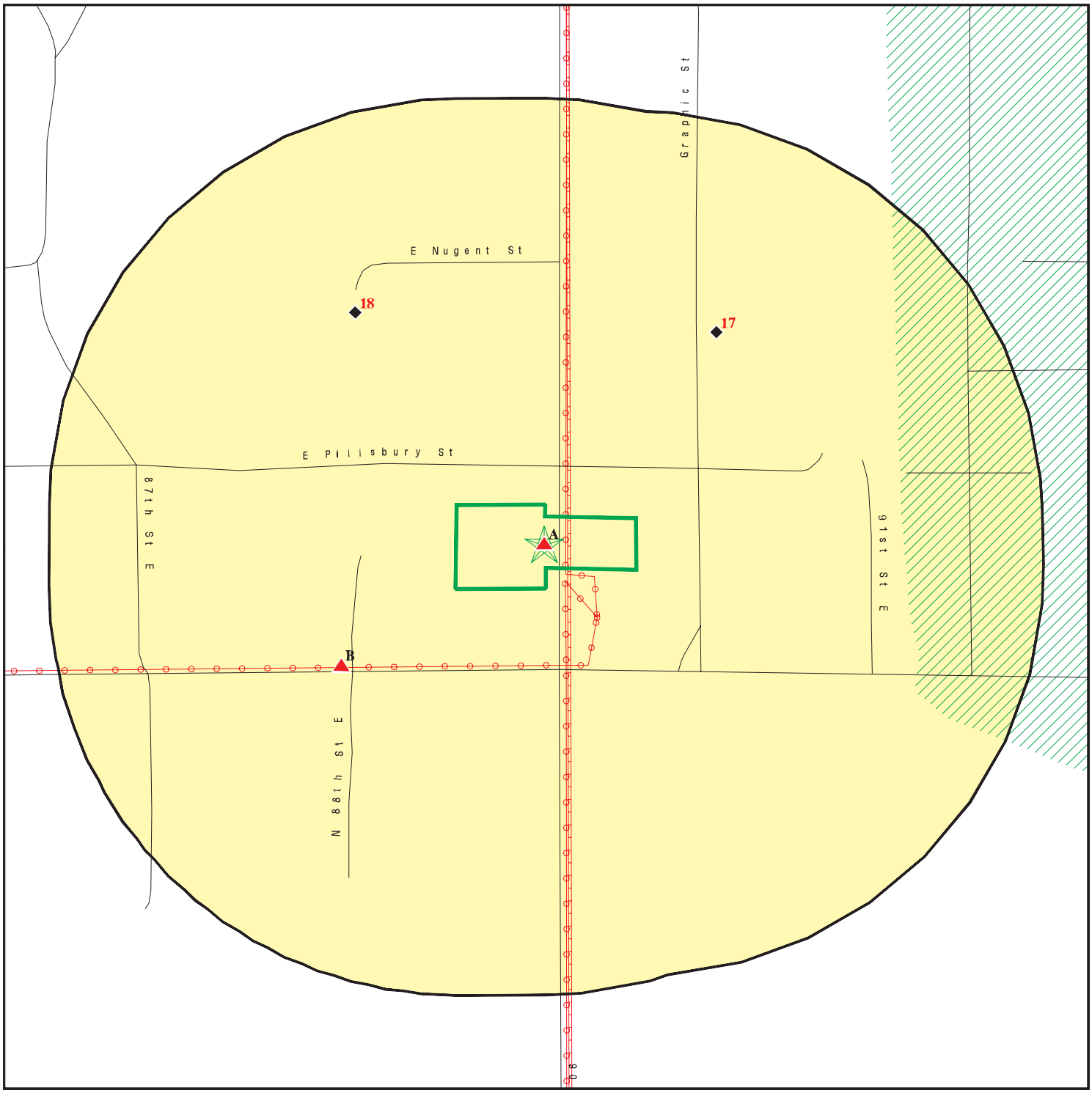
- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA
- Power transmission lines
- Pipelines
- Special Flood Hazard Area (1%)
- 0.2% Annual Chance Flood Hazard
- Areas of Concern

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: Lancaster Properties	CLIENT: NV5
ADDRESS: 44434 90TH ST E LANCASTER CA 93535	CONTACT: Eric Fraske
LAT/LONG: 34.691415 / 117.969885	INQUIRY #: 8020014.2s DATE: June 16, 2025 12:09 pm

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DETAIL MAP - 8020014.2S



- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- Sensitive Receptors
- National Priority List Sites
- Dept. Defense Sites

0 1/16 1/8 1/4 Miles

- Indian Reservations BIA
- Power transmission lines
- Pipelines
- Special Flood Hazard Area (1%)
- 0.2% Annual Chance Flood Hazard
- Areas of Concern

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: Lancaster Properties	CLIENT: NV5
ADDRESS: 44434 90TH ST E LANCASTER CA 93535	CONTACT: Eric Fraske INQUIRY #: 8020014.2s
LAT/LONG: 34.691415 / 117.969885	DATE: June 16, 2025 12:13 pm

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MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMENTAL RECORDS								
Lists of Federal NPL (Superfund) sites								
NPL	1.000		0	0	0	0	NR	0
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	1.000		0	0	0	0	NR	0
Lists of Federal Delisted NPL sites								
Delisted NPL	1.000		0	0	0	0	NR	0
Lists of Federal sites subject to CERCLA removals and CERCLA orders								
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
SEMS	0.500		0	0	0	NR	NR	0
Lists of Federal CERCLA sites with NFRAP								
SEMS-ARCHIVE	0.500		0	0	0	NR	NR	0
Lists of Federal RCRA facilities undergoing Corrective Action								
CORRACTS	1.000		0	0	0	0	NR	0
Lists of Federal RCRA TSD facilities								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
Lists of Federal RCRA generators								
RCRA-LQG	0.250		0	0	NR	NR	NR	0
RCRA-SQG	0.250		0	0	NR	NR	NR	0
RCRA-VSQG	0.250		0	0	NR	NR	NR	0
Federal institutional controls / engineering controls registries								
LUCIS	0.500		0	0	0	NR	NR	0
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROLS	0.500		0	0	0	NR	NR	0
Federal ERNS list								
ERNS	TP		NR	NR	NR	NR	NR	0
Lists of state- and tribal (Superfund) equivalent sites								
RESPONSE	1.000		0	0	0	0	NR	0
Lists of state- and tribal hazardous waste facilities								
ENVIROSTOR	1.000		0	0	0	0	NR	0
Lists of state and tribal landfills and solid waste disposal facilities								
SWF/LF	0.500		0	0	0	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
Lists of state and tribal leaking storage tanks								
LUST	0.500		1	0	0	NR	NR	1
INDIAN LUST	0.500		0	0	0	NR	NR	0
CPS-SLIC	0.500		0	0	0	NR	NR	0
Lists of state and tribal registered storage tanks								
FEMA UST	0.250		0	0	NR	NR	NR	0
UST	0.250		2	0	NR	NR	NR	2
AST	0.250		0	0	NR	NR	NR	0
INDIAN UST	0.250		0	0	NR	NR	NR	0
Lists of state and tribal voluntary cleanup sites								
INDIAN VCP	0.500		0	0	0	NR	NR	0
VCP	0.500		0	0	0	NR	NR	0
Lists of state and tribal brownfield sites								
BROWNFIELDS	0.500		0	0	0	NR	NR	0
ADDITIONAL ENVIRONMENTAL RECORDS								
Local Brownfield lists								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
Local Lists of Landfill / Solid Waste Disposal Sites								
WMUDS/SWAT	0.500		0	0	0	NR	NR	0
SWRCY	0.500		0	0	0	NR	NR	0
HAULERS	TP		NR	NR	NR	NR	NR	0
INDIAN ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
ODI	0.500		0	0	0	NR	NR	0
IHS OPEN DUMPS	0.500		0	0	0	NR	NR	0
Local Lists of Hazardous waste / Contaminated Sites								
AOCONCERN	1.000		0	0	0	0	NR	0
US HIST CDL	TP		NR	NR	NR	NR	NR	0
HIST Cal-Sites	1.000		0	0	0	0	NR	0
SCH	0.250		0	0	NR	NR	NR	0
CDL	TP		NR	NR	NR	NR	NR	0
Toxic Pits	1.000		0	0	0	0	NR	0
CERS HAZ WASTE	0.250		1	0	NR	NR	NR	1
US CDL	TP		NR	NR	NR	NR	NR	0
Local Lists of Registered Storage Tanks								
SWEEPS UST	0.250		1	0	NR	NR	NR	1
HIST UST	0.250	2	1	0	NR	NR	NR	3
CA FID UST	0.250		0	0	NR	NR	NR	0
CERS TANKS	0.250		1	0	NR	NR	NR	1

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
Local Land Records								
LIENS	TP		NR	NR	NR	NR	NR	0
LIENS 2	TP		NR	NR	NR	NR	NR	0
DEED	0.500		0	0	0	NR	NR	0
Records of Emergency Release Reports								
HMIRS	TP		NR	NR	NR	NR	NR	0
CHMIRS	TP		NR	NR	NR	NR	NR	0
LDS	TP		NR	NR	NR	NR	NR	0
MCS	TP		NR	NR	NR	NR	NR	0
SPILLS 90	TP		NR	NR	NR	NR	NR	0
Other Ascertainable Records								
RCRA NonGen / NLR	0.250	1	2	0	NR	NR	NR	3
FUDS	1.000		0	0	0	0	NR	0
DOD	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
US FIN ASSUR	TP		NR	NR	NR	NR	NR	0
EPA WATCH LIST	TP		NR	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
TSCA	TP		NR	NR	NR	NR	NR	0
TRIS	TP		NR	NR	NR	NR	NR	0
SSTS	TP		NR	NR	NR	NR	NR	0
ROD	1.000		0	0	0	0	NR	0
RMP	TP		NR	NR	NR	NR	NR	0
RAATS	TP		NR	NR	NR	NR	NR	0
PRP	TP		NR	NR	NR	NR	NR	0
PADS	TP		NR	NR	NR	NR	NR	0
ICIS	TP		NR	NR	NR	NR	NR	0
FTTS	TP		NR	NR	NR	NR	NR	0
MLTS	TP		NR	NR	NR	NR	NR	0
COAL ASH DOE	TP		NR	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
PCB TRANSFORMER	TP		NR	NR	NR	NR	NR	0
RADINFO	TP		NR	NR	NR	NR	NR	0
HIST FTTS	TP		NR	NR	NR	NR	NR	0
DOT OPS	TP		NR	NR	NR	NR	NR	0
CONSENT	1.000		0	0	0	0	NR	0
INDIAN RESERV	1.000		0	0	0	0	NR	0
FUSRAP	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
LEAD SMELTERS	TP		NR	NR	NR	NR	NR	0
US AIRS	TP		NR	NR	NR	NR	NR	0
US MINES	0.250		0	0	NR	NR	NR	0
MINES MRDS	0.250		0	0	NR	NR	NR	0
ABANDONED MINES	0.250		0	0	NR	NR	NR	0
FINDS	TP	1	NR	NR	NR	NR	NR	1
ECHO	TP	1	NR	NR	NR	NR	NR	1
UXO	1.000		0	0	0	0	NR	0
DOCKET HWC	TP		NR	NR	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
FUELS PROGRAM	0.250		0	0	NR	NR	NR	0
PFAS NPL	0.250		0	0	NR	NR	NR	0
PFAS FEDERAL SITES	0.250		0	0	NR	NR	NR	0
PFAS TSCA	0.250		0	0	NR	NR	NR	0
PFAS TRIS	0.250		0	0	NR	NR	NR	0
PFAS RCRA MANIFEST	0.250		0	0	NR	NR	NR	0
PFAS ATSDR	0.250		0	0	NR	NR	NR	0
PFAS WQP	0.250		0	1	NR	NR	NR	1
PFAS PROJECT	0.250		0	0	NR	NR	NR	0
PFAS NPDES	0.250		0	0	NR	NR	NR	0
PFAS ECHO	0.250		0	0	NR	NR	NR	0
PFAS ECHO FIRE TRAIN	0.250		0	0	NR	NR	NR	0
PFAS PT 139 AIRPORT	0.250		0	0	NR	NR	NR	0
AQUEOUS FOAM NRC	0.250		0	0	NR	NR	NR	0
BIOSOLIDS	TP		NR	NR	NR	NR	NR	0
UST FINDER RELEASE	0.500		1	0	0	NR	NR	1
UST FINDER	0.250		1	0	NR	NR	NR	1
E MANIFEST	0.250		1	0	NR	NR	NR	1
PFAS	0.250		0	0	NR	NR	NR	0
AQUEOUS FOAM	0.250		0	0	NR	NR	NR	0
CA BOND EXP. PLAN	1.000		0	0	0	0	NR	0
CHROME PLATING	0.500		0	0	0	NR	NR	0
Cortese	0.500		1	0	0	NR	NR	1
CUPA Listings	0.250		0	0	NR	NR	NR	0
DRYCLEANERS	0.250		0	0	NR	NR	NR	0
EMI	TP		NR	NR	NR	NR	NR	0
ENF	TP		NR	NR	NR	NR	NR	0
Financial Assurance	TP		NR	NR	NR	NR	NR	0
ICE	TP		NR	NR	NR	NR	NR	0
HIST CORTESE	0.500		0	0	0	NR	NR	0
LOS ANGELES CO. HMS	TP	1	NR	NR	NR	NR	NR	1
HWP	1.000		0	0	0	0	NR	0
HWT	0.250		0	0	NR	NR	NR	0
HWTS	TP	2	NR	NR	NR	NR	NR	2
HAZNET	TP		NR	NR	NR	NR	NR	0
LA CO LF METHANE	0.500		0	0	0	NR	NR	0
MINES	0.250		0	0	NR	NR	NR	0
MWMP	0.250		0	0	NR	NR	NR	0
NPDES	TP		NR	NR	NR	NR	NR	0
PEST LIC	TP		NR	NR	NR	NR	NR	0
PROC	0.500		0	0	0	NR	NR	0
Notify 65	1.000		0	0	0	0	NR	0
HAZMAT LA	0.250		0	0	NR	NR	NR	0
HAZMAT	0.250		0	0	NR	NR	NR	0
Site Mitigation	TP		NR	NR	NR	NR	NR	0
UIC	TP		NR	NR	NR	NR	NR	0
UIC GEO	TP		NR	NR	NR	NR	NR	0
WASTEWATER PITS	0.500		0	0	0	NR	NR	0
WDS	TP		NR	NR	NR	NR	NR	0
WIP	0.250		0	0	NR	NR	NR	0
MILITARY PRIV SITES	TP		NR	NR	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
PROJECT	TP		NR	NR	NR	NR	NR	0
WDR	TP		NR	NR	NR	NR	NR	0
CIWQS	TP		NR	NR	NR	NR	NR	0
CERS	TP		NR	NR	NR	NR	NR	0
NON-CASE INFO	TP		NR	NR	NR	NR	NR	0
OTHER OIL GAS	TP		NR	NR	NR	NR	NR	0
PROD WATER PONDS	TP		NR	NR	NR	NR	NR	0
SAMPLING POINT	TP		NR	NR	NR	NR	NR	0
WELL STIM PROJ	TP		NR	NR	NR	NR	NR	0
EDR HIGH RISK HISTORICAL RECORDS								
EDR Exclusive Records								
EDR MGP	1.000		0	0	0	0	NR	0
EDR Hist Auto	0.125		0	NR	NR	NR	NR	0
EDR Hist Cleaner	0.125		0	NR	NR	NR	NR	0
EDR RECOVERED GOVERNMENT ARCHIVES								
Exclusive Recovered Govt. Archives								
RGA LF	TP		NR	NR	NR	NR	NR	0
RGA LUST	TP		NR	NR	NR	NR	NR	0
- Totals --		8	13	1	0	0	0	22

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

A1
Target Property

DALES AUTO CLINIC AND FARM
44434 NO 90 EAST
LANCASTER, CA 93535

HIST UST **S118409112**
N/A

Site 1 of 7 in cluster A

Actual: 2450 ft.

HIST UST:

Name:	DALES AUTO CLINIC AND FARM
Address:	44434 NO 90 EAST
City,State,Zip:	LANCASTER, CA 93535
File Number:	00027506
URL:	
Region:	Not reported
Facility ID:	Not reported
Facility Type:	Not reported
Other Type:	Not reported
Contact Name:	Not reported
Telephone:	Not reported
Owner Name:	Not reported
Owner Address:	Not reported
Owner City,St,Zip:	Not reported
Total Tanks:	Not reported
Tank Num:	Not reported
Container Num:	Not reported
Year Installed:	Not reported
Tank Capacity:	Not reported
Tank Used for:	Not reported
Type of Fuel:	Not reported
Container Construction Thickness:	Not reported
Leak Detection:	Not reported

Click here for Geo Tracker PDF:

A2
Target Property

DRC PUMP SYSTEMS INC
44434 90TH ST E
LANCASTER, CA 93535

HWTS **S124919212**
N/A

Site 2 of 7 in cluster A

Actual: 2450 ft.

HWTS:

Name:	DRC PUMP SYSTEMS INC
Address:	44434 90TH ST E
Address 2:	Not reported
City,State,Zip:	LANCASTER, CA 93535
EPA ID:	CAL000431867
Inactive Date:	06/30/2020
Create Date:	11/01/2017
Last Act Date:	Not reported
Mailing Name:	Not reported
Mailing Address:	44434 90TH ST E
Mailing Address 2:	Not reported
Mailing City,State,Zip:	LANCASTER, CA 93535
Owner Name:	JOHN HOUGHTON
Owner Address:	47711 93RD ST W
Owner Address 2:	Not reported
Owner City,State,Zip:	LANCASTER, CA 93535
Owner Phone:	Not reported
Owner Fax:	Not reported

DRC PUMP SYSTEMS INC (Continued) **S124919212**

Contact Name:	JAN HERRIN
Contact Address:	44434 90TH ST E
Contact Address 2:	Not reported
City,State,Zip:	LANCASTER, CA 93535
Contact Phone:	Not reported
Contact Fax:	Not reported
Facility Status:	Inactive
Facility Type:	PERMANENT
Category:	STATE
Latitude:	34.691508
Longitude:	-117.9691425

NAICS:

EPA ID:	CAL000431867
Create Date:	2017-11-01 15:28:08.113
NAICS Code:	99999
NAICS Description:	Not Otherwise Specified
Issued EPA ID Date:	2017-11-01 15:28:08.10700
Inactive Date:	2020-06-30 00:00:00
Facility Name:	DRC PUMP SYSTEMS INC
Facility Address:	44434 90TH ST E
Facility Address 2:	Not reported
Facility City:	LANCASTER
Facility County:	Not reported
Facility State:	CA
Facility Zip:	93535

A3 **DALES AUTO CLINIC & FARM** **HIST UST** **U001586801**
Target **44434 90TH ST E** **N/A**
Property **LANCASTER, CA 93535**

Site 3 of 7 in cluster A

Actual:
2450 ft.

HIST UST:

Name:	DALES AUTO CLINIC & FARM
Address:	44434 90TH ST E
City,State,Zip:	LANCASTER, CA 93535
File Number:	Not reported
URL:	Not reported
Region:	STATE
Facility ID:	00000020543
Facility Type:	Other
Other Type:	Not reported
Contact Name:	Not reported
Telephone:	8059461986
Owner Name:	DALES AUTO CLINIC & FARM
Owner Address:	44434 NO 90 EAST
Owner City,St,Zip:	LANCASTER, CA 93535
Total Tanks:	0002
Tank Num:	001
Container Num:	1
Year Installed:	Not reported
Tank Capacity:	00000550
Tank Used for:	WASTE
Type of Fuel:	WASTE OIL
Container Construction Thickness:	12

DALES AUTO CLINIC & FARM (Continued) **U001586801**

Leak Detection: Visual, Stock Inventor

Tank Num: 002
Container Num: 2
Year Installed: Not reported
Tank Capacity: 00000550
Tank Used for: WASTE
Type of Fuel: WASTE OIL
Container Construction Thickness: 12
Leak Detection: Visual, Stock Inventor

A4
Target Property
DRC PUMP SYSTEMS INC
44434 90TH ST E
LANCASTER, CA 93535

FINDS **1024638643**
ECHO **N/A**

Site 4 of 7 in cluster A

Actual: 2450 ft.

FINDS:
Registry ID: 110070427030

Click Here for FRS Facility Detail Report:

Environmental Interest/Information System:
The Resource Conservation and Recovery Act Information System (RCRAInfo) is EPA's comprehensive information system in support of the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. It tracks many types of information about generators, transporters, treaters, storers, and disposers of hazardous waste.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:
Envid: 1024638643
Registry ID: 110070427030

DFR URL:
Name: DRC PUMP SYSTEMS INC
Address: 44434 90TH ST E
City,State,Zip: LANCASTER, CA 93535

A5
Target Property
DALES AUTO CLINIC
44434 90TH ST EAST
LANCASTER, CA 93535

LOS ANGELES CO. HMS **S102064845**
N/A

Site 5 of 7 in cluster A

Actual: 2450 ft.

LOS ANGELES CO. HMS:
Name: DALES AUTO CLINIC
Address: 44434 90TH ST EAST
City,State,Zip: LANCASTER, CA 93535
Region: LA
Permit Category: T
Facility Id: 011804-011869
Facility Type: 0
Facility Status: Removed

DALES AUTO CLINIC (Continued) **S102064845**

Area: 4
Permit Number: 00003452T
Permit Status: Removed

A6 **DRC PUMP SYSTEMS INC** **RCRA NonGen / NLR** **1024863326**
Target **44434 90TH ST E** **CAL000431867**
Property **LANCASTER, CA 93535**

Site 6 of 7 in cluster A

Actual: 2450 ft.

RCRA Listings:

Date Form Received by Agency:		20171101
Handler Name:		Drc Pump Systems Inc
Handler Address:		44434 90th St E
Handler City,State,Zip:		LANCASTER, CA 93535
EPA ID:		CAL000431867
Contact Name:		JAN HERRIN
Contact Address:		44434 90TH ST E
Contact City,State,Zip:		LANCASTER, CA 93535
Contact Telephone:		661-946-9444
Contact Fax:		661-946-1559
Contact Email:		DECPUMPS@VERIZON.NET
Contact Title:		Not reported
EPA Region:		09
Land Type:		Not reported
Federal Waste Generator Description:		Not a generator, verified
Non-Notifier:		Not reported
Biennial Report Cycle:		Not reported
Accessibility:		Not reported
Active Site Indicator:		Handler Activities
State District Owner:		Not reported
State District:		Not reported
Mailing Address:		44434 90TH ST E
Mailing City,State,Zip:		LANCASTER, CA 93535
Owner Name:	John Houghton	
Owner Type:		Other
Operator Name:	Jan Herrin	
Operator Type:		Other
Short-Term Generator Activity:		No
Importer Activity:		No
Mixed Waste Generator:		No
Transporter Activity:		No
Transfer Facility Activity:		No
Recycler Activity with Storage:		No
Small Quantity On-Site Burner Exemption:		No
Smelting Melting and Refining Furnace Exemption:		No
Underground Injection Control:		No
Off-Site Waste Receipt:		No
Universal Waste Indicator:		Yes
Universal Waste Destination Facility:		Yes
Federal Universal Waste:		No
Active Site State-Reg Handler:		---
Federal Facility Indicator:		Not reported
Hazardous Secondary Material Indicator:		N
Sub-Part K Indicator:		Not reported
2018 GPRA Permit Baseline:		Not on the Baseline
2018 GPRA Renewals Baseline:		Not on the Baseline
202 GPRA Corrective Action Baseline:		No

DRC PUMP SYSTEMS INC (Continued) **1024863326**

Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20180907
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name: JOHN HOUGHTON	
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	47711 93RD ST W
Owner/Operator City,State,Zip:	LANCASTER, CA 93535
Owner/Operator Telephone:	661-946-9444
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name: JAN HERRIN	
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	44434 90TH ST E
Owner/Operator City,State,Zip:	LANCASTER, CA 93535
Owner/Operator Telephone:	661-946-9444
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	20171101
Handler Name: DRC PUMP SYSTEMS INC	
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No

DRC PUMP SYSTEMS INC (Continued) **1024863326**

Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Code: 56299
NAICS Description: All Other Waste Management Services

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

A7 **DALE'S AUTO CLINIC** **HWTS** **S124834691**
Target **44434 90TH ST** **N/A**
Property **LANCASTER, CA 93535**

Site 7 of 7 in cluster A

Actual:
2450 ft.

HWTS:
Name: DALE'S AUTO CLINIC
Address: 44434 90TH ST
Address 2: Not reported
City,State,Zip: LANCASTER, CA 93535
EPA ID: CAL000251701
Inactive Date: 06/30/2005
Create Date: 05/08/2002
Last Act Date: Not reported
Mailing Name: Not reported
Mailing Address: 44434 90TH ST
Mailing Address 2: Not reported
Mailing City,State,Zip: LANCASTER, CA 93535
Owner Name: DALE E & BONNIE JEAN HOWARD
Owner Address: 44434 NO 90TH ST EAST
Owner Address 2: Not reported
Owner City,State,Zip: LANCASTER, CA 935358408
Owner Phone: Not reported
Owner Fax: Not reported
Contact Name: BONNIE JEAN HOWARD
Contact Address: 44434 NO 90TH ST EAST
Contact Address 2: Not reported
City,State,Zip: LANCASTER, CA 935358408
Contact Phone: Not reported
Contact Fax: Not reported
Facility Status: Inactive
Facility Type: PERMANENT
Category: STATE
Latitude: 34.690886
Longitude: -117.969727

NAICS:
EPA ID: CAL000251701
Create Date: 2002-05-08 14:46:37.217
NAICS Code: 811111

DALE'S AUTO CLINIC (Continued) **S124834691**

NAICS Description:	General Automotive Repair
Issued EPA ID Date:	2002-05-08 14:46:37.18700
Inactive Date:	2005-06-30 00:00:00
Facility Name:	DALE'S AUTO CLINIC
Facility Address:	44434 90TH ST
Facility Address 2:	Not reported
Facility City:	LANCASTER
Facility County:	Not reported
Facility State:	CA
Facility Zip:	93535

B8 **PETRO LOCK INC (FAC #20)** **CERS TANKS** **S132628829**
WSW **8841 E AVENUE J** **N/A**
< 1/8 **LANCASTER, CA 93534**
0.084 mi.
446 ft. **Site 1 of 9 in cluster B**

Relative:
Higher

Actual:
2451 ft.

CERS TANKS:

Name:	PETRO LOCK INC (FAC #20)
Address:	8841 E AVENUE J
City,State,Zip:	LANCASTER, CA 93534
Site ID:	923459
CERS ID:	10288282
CERS Description:	Underground Storage Tank

Violations:

Site ID:	923459
Site Name:	PETRO LOCK INC (FAC #20)
Violation Date:	10-04-2022
Citation:	HSC 6.7 25298 - California Health and Safety Code, Chapter 6.7, Section(s) 25298
Violation Description:	Failure to comply with temporary closure requirements.
Violation Notes:	NO PERMIT NEW OWNER; OUTSTANDING FEES FY 20/21, 21/22, 22/23 TANKS NOT IN USE APPLY FOR A PERMIT DUE TO TRANSFER OF OWNERSHIP; PAY OUTSTANDING FEEAPPLY FOR TEMPORARY CLOSURE
Violation Division:	Los Angeles County Department of Public Works
Violation Program:	UST
Violation Source:	CERS,

Site ID:	923459
Site Name:	PETRO LOCK INC (FAC #20)
Violation Date:	03-09-2017
Citation:	23 CCR 16 2632(d)(1)(C), 2641(h), 2711(a)(8) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2632(d)(1)(C), 2641(h), 2711(a)(8)
Violation Description:	Failure to submit or update a plot plan.
Violation Notes:	Returned to compliance on 03/28/2017.
Violation Division:	Los Angeles County Department of Public Works
Violation Program:	UST
Violation Source:	CERS,

Site ID:	923459
Site Name:	PETRO LOCK INC (FAC #20)
Violation Date:	03-09-2017
Citation:	HSC 6.7 25284.2 - California Health and Safety Code, Chapter 6.7, Section(s) 25284.2
Violation Description:	Failure to test the spill bucket annually.

PETRO LOCK INC (FAC #20) (Continued) **S132628829**

Violation Notes:	Returned to compliance on 03/28/2017.
Violation Division:	Los Angeles County Department of Public Works
Violation Program:	UST
Violation Source:	CERS,
Site ID:	923459
Site Name:	PETRO LOCK INC (FAC #20)
Violation Date:	10-04-2022
Citation:	HSC 6.7 25284 - California Health and Safety Code, Chapter 6.7, Section(s) 25284
Violation Description:	Failure to obtain a valid permit to operate from the UPA including but not limited to unpaid permit fees.
Violation Notes:	NO PERMIT NEW OWNER; OUTSTANDING FEES FY 20/21, 21/22, 22/23 TANKS NOT IN USE APPLY FOR A PERMIT DUE TO TRANSFER OF OWNERSHIP; PAY OUTSTANDING FEEAPPLY FOR TEMPORARY CLOSURE
Violation Division:	Los Angeles County Department of Public Works
Violation Program:	UST
Violation Source:	CERS,
Site ID:	923459
Site Name:	PETRO LOCK INC (FAC #20)
Violation Date:	06-14-2023
Citation:	23 CCR 16 2641(j) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2641(j)
Violation Description:	Failure of the leak detection equipment to be installed, calibrated, operated, and/or maintained properly.
Violation Notes:	ABANDONED TANK SYSTEM. SITE VACANT. TANK EXCAVATION PIT OPEN. SUBMIT TRANSFER OF OWNERSHIP APP/FEE
Violation Division:	Los Angeles County Department of Public Works
Violation Program:	UST
Violation Source:	CERS,
Site ID:	923459
Site Name:	PETRO LOCK INC (FAC #20)
Violation Date:	03-09-2017
Citation:	23 CCR 16 2712 - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712
Violation Description:	Failure to comply with any of the applicable requirements of the permit issued for the operation of the UST system.
Violation Notes:	Returned to compliance on 03/28/2017.
Violation Division:	Los Angeles County Department of Public Works
Violation Program:	UST
Violation Source:	CERS,
Site ID:	923459
Site Name:	PETRO LOCK INC (FAC #20)
Violation Date:	06-14-2023
Citation:	23 CCR 16 2712(b)(1)(G) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(b)(1)(G)
Violation Description:	Failure to comply with one or more of the following overfill prevention equipment requirements: Alert the transfer operator when the tank is 90 percent full by restricting the flow into the tank or triggering an audible and visual alarm; or Restrict delivery of flow to the tank at least 30 minutes before the tank overfills, provided the restriction occurs when the tank is filled to no more than 95 percent of capacity; and activate an audible alarm at least five minutes before the tank overfills; or Provide positive shut-off of

PETRO LOCK INC (FAC #20) (Continued) **S132628829**

flow to the tank when the tank is filled to no more than 95 percent of capacity; or Provide positive shut-off of flow to the tank so that none of the fittings located on the top of the tank are exposed to product due to overfilling. Install/retrofit overfill prevention equipment that does not use flow restrictors on vent piping to meet overfill prevention equipment requirements when the overfill prevention equipment is installed, repaired, or replaced on and after October 1, 2018. For USTs installed before October 1, 2018, perform an inspection by October 13, 2018 and every 36 months thereafter. For USTs installed on and after October 1, 2018, perform an inspection at installation and every 36 months thereafter. Inspected within 30 days after a repair to the overfill prevention equipment. Inspected using an applicable manufacturer guidelines, industry codes, engineering standards, or a method approved by a professional engineer. Inspected by a certified UST service technician. Maintain records of overfill prevention equipment inspection for 36 months.

Violation Notes: ABANDONED TANK SYSTEM. SITE VACANT. TANK EXCAVATION PIT OPEN. SUBMIT TRANSFER OF OWNERSHIP APP/FEE
Violation Division: Los Angeles County Department of Public Works
Violation Program: UST
Violation Source: CERS,

Site ID: 923459
Site Name: PETRO LOCK INC (FAC #20)
Violation Date: 06-14-2023
Citation: 23 CCR 16 2712(f) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(f)
Violation Description: Failure to implement the corrections specified in the inspection report within 30 days of receiving an inspection report from either the UPA or special inspector.
Violation Notes: ABANDONED TANK SYSTEM. SITE VACANT. TANK EXCAVATION PIT OPEN. SUBMIT TRANSFER OF OWNERSHIP APP/FEE
Violation Division: Los Angeles County Department of Public Works
Violation Program: UST
Violation Source: CERS,

Site ID: 923459
Site Name: PETRO LOCK INC (FAC #20)
Violation Date: 10-04-2022
Citation: 23 CCR 16 2712(f) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(f)
Violation Description: Failure to implement the corrections specified in the inspection report within 30 days of receiving an inspection report from either the UPA or special inspector.
Violation Notes: NO PERMIT NEW OWNER; OUTSTANDING FEES FY 20/21, 21/22, 22/23 TANKS NOT IN USE APPLY FOR A PERMIT DUE TO TRANSFER OF OWNERSHIP; PAY OUTSTANDING FEEAPPLY FOR TEMPORARY CLOSURE
Violation Division: Los Angeles County Department of Public Works
Violation Program: UST
Violation Source: CERS,

Site ID: 923459
Site Name: PETRO LOCK INC (FAC #20)
Violation Date: 06-28-2019
Citation: HSC 6.7 25284 - California Health and Safety Code, Chapter 6.7, Section(s) 25284
Violation Description: Failure to obtain a valid permit to operate from the UPA including but

PETRO LOCK INC (FAC #20) (Continued) **S132628829**

	not limited to unpaid permit fees.
Violation Notes:	Not reported
Violation Division:	Los Angeles County Department of Public Works
Violation Program:	UST
Violation Source:	CERS,
Site ID:	923459
Site Name:	PETRO LOCK INC (FAC #20)
Violation Date:	01-13-2022
Citation:	23 CCR 16 2712 - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712
Violation Description:	Failure to comply with any of the applicable requirements of the permit issued for the operation of the UST system.
Violation Notes:	OUTSTANDING CUPA FEES - CURRENT BILL FOR $2353 PAY IN FULL TO FIRE DEPARTMENT
Violation Division:	Los Angeles County Department of Public Works
Violation Program:	UST
Violation Source:	CERS,
Site ID:	923459
Site Name:	PETRO LOCK INC (FAC #20)
Violation Date:	06-07-2022
Citation:	23 CCR 16 2712 - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712
Violation Description:	Failure to comply with any of the applicable requirements of the permit issued for the operation of the UST system.
Violation Notes:	TRACKING VIOLATION. ENFORCEMENT.
Violation Division:	Los Angeles County Department of Public Works
Violation Program:	UST
Violation Source:	CERS,
Site ID:	923459
Site Name:	PETRO LOCK INC (FAC #20)
Violation Date:	07-01-2020
Citation:	HSC 6.7 25284 - California Health and Safety Code, Chapter 6.7, Section(s) 25284
Violation Description:	Failure to obtain a valid permit to operate from the UPA including but not limited to unpaid permit fees.
Violation Notes:	TRACKING VIOLATION
Violation Division:	Los Angeles County Department of Public Works
Violation Program:	UST
Violation Source:	CERS,
Site ID:	923459
Site Name:	PETRO LOCK INC (FAC #20)
Violation Date:	05-17-2021
Citation:	23 CCR 16 2712(f) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(f)
Violation Description:	Failure to implement the corrections specified in the inspection report within 30 days of receiving an inspection report from either the UPA or special inspector.
Violation Notes:	EXISTING NVRT, THIS NOTICE WAS NOT ISSUED BUT IS FOR TRACKING PURPOSES ONLY
Violation Division:	Los Angeles County Department of Public Works
Violation Program:	UST
Violation Source:	CERS,

PETRO LOCK INC (FAC #20) (Continued) **S132628829**

Site ID:	923459
Site Name:	PETRO LOCK INC (FAC #20)
Violation Date:	06-14-2023
Citation:	HSC 6.7 25284.2 - California Health and Safety Code, Chapter 6.7, Section(s) 25284.2
Violation Description:	"Failure to meet one or more of the following requirements: Install or maintain a liquid-tight spill container. Have a minimum capacity of five gallons. Have a functional drain valve or other method for the removal of liquid from the spill container. Be resistant to galvanic corrosion. Perform a tightness test at installation, every 12 months thereafter, or within 30 days after a repair to the spill container. Tested using applicable manufacturer guidelines, industry codes, engineering standards, or a method approved by a professional engineer. Tested by a certified UST service technician. Maintain records of spill containment testing for 36 months. "
Violation Notes:	ABANDONED TANK SYSTEM. SITE VACANT. TANK EXCAVATION PIT OPEN. SUBMIT TRANSFER OF OWNERSHIP APP/FEE
Violation Division:	Los Angeles County Department of Public Works
Violation Program:	UST
Violation Source:	CERS,

Site ID:	923459
Site Name:	PETRO LOCK INC (FAC #20)
Violation Date:	12-01-2016
Citation:	HSC 6.5 Multiple - California Health and Safety Code, Chapter 6.5, Section(s) Multiple
Violation Description:	Hazardous Waste Generator Program - Training - General
Violation Notes:	Returned to compliance on 03/24/2017. OBSERVATION: This facility s EPA ID number is inactive. A hazardous waste generator shall not treat, store, dispose of, transport or offer for transportation, hazardous waste without an EPA ID number. CORRECTIVE ACTION: Immediately contact DTSC and reactivate your EPA ID number and submit evidence to the CUPA.
Violation Division:	Los Angeles County Fire Department
Violation Program:	HW
Violation Source:	CERS,

Site ID:	923459
Site Name:	PETRO LOCK INC (FAC #20)
Violation Date:	06-14-2023
Citation:	HSC 6.7 25284 - California Health and Safety Code, Chapter 6.7, Section(s) 25284
Violation Description:	Failure to obtain a valid permit to operate from the UPA including but not limited to unpaid permit fees.
Violation Notes:	ABANDONED TANK SYSTEM. SITE VACANT. TANK EXCAVATION PIT OPEN. SUBMIT TRANSFER OF OWNERSHIP APP/FEE
Violation Division:	Los Angeles County Department of Public Works
Violation Program:	UST
Violation Source:	CERS,

Site ID:	923459
Site Name:	PETRO LOCK INC (FAC #20)
Violation Date:	03-09-2017
Citation:	23 CCR 16 2715(a) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2715(a)
Violation Description:	Failure to notify the CUPA of the designated operator (DO) identification and/or change of the DO within 30 days.

PETRO LOCK INC (FAC #20) (Continued) **S132628829**

Violation Notes: Returned to compliance on 03/28/2017.
Violation Division: Los Angeles County Department of Public Works
Violation Program: UST
Violation Source: CERS,

Site ID: 923459
Site Name: PETRO LOCK INC (FAC #20)
Violation Date: 12-01-2016
Citation: 19 CCR 6.95 25508(a)(1) - California Code of Regulations, Title 19, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to complete and electronically submit the Business Activities Page and/or Business Owner Operator Identification Page.
Violation Notes: Returned to compliance on 06/12/2017. OBSERVATION: The Business Activities page is not accurate. CORRECTIVE ACTION: Update the EPA ID information and resubmit electronically in the California Environmental Reporting System (CERS).
Violation Division: Los Angeles County Fire Department
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 923459
Site Name: PETRO LOCK INC (FAC #20)
Violation Date: 03-09-2017
Citation: 23 CCR 16 2715(i) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2715(i)
Violation Description: Failure to have a properly qualified service technician test leak detection equipment as required every 12 months (vapor, pressure, hydrostatic (VPH) system, sensors, line-leak detectors (LLD), automatic tank gauge (ATG), etc.).
Violation Notes: Returned to compliance on 03/28/2017.
Violation Division: Los Angeles County Department of Public Works
Violation Program: UST
Violation Source: CERS,

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 06-07-2022
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: VACANT. TANK AREA FENCED. OPEN EXCAVATION WITH TANK TOP VISIBLE. BUI LDING IS NOT OCCUPIED. SITE IS OVERGROWN WITH TUMBLEWEEDS.
Eval Division: Los Angeles County Department of Public Works
Eval Program: UST
Eval Source: CERS,

Eval General Type: Other/Unknown
Eval Date: 01-08-2021
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: SITE IS VACANT,FENCE SURROUNDING PROPERTY.1 UST IS SETTLED IN DIRT PIT WITH TANK TOP EXPOSED.MARKET DOES NOT SEEM TO BE OPERATING.
Eval Division: Los Angeles County Department of Public Works
Eval Program: UST
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 03-14-2018

PETRO LOCK INC (FAC #20) (Continued) **S132628829**

Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: UST AND DISPENSER SUMPS HAVE SENSORS IN PLACE. UST RECORDS ARE AVAIL ABLE AT THE SITE.
Eval Division: Los Angeles County Department of Public Works
Eval Program: UST
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 05-17-2021
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: SITE IS NOT IN OPERATION. NEW UST HAS BEEN INSTALLED BUT IS STILL EXPOSED. PIPING IN FRONT OF DISPENSERS EXPOSED. PENDING NVRT.
Eval Division: Los Angeles County Department of Public Works
Eval Program: UST
Eval Source: CERS,

Eval General Type: Other/Unknown
Eval Date: 05-23-2017
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Los Angeles County Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 06-13-2023
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: NEWEST OWNER HAS NOT APPLIED FOR TRANSFER OF OWNERSHIP. SYSTEM IS NOT BEING OPERATED. SITE CURRENTLY VACANT. UST EXCAVATION PIT OPEN.
Eval Division: Los Angeles County Department of Public Works
Eval Program: UST
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 07-01-2020
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: VACANT. UST'S UNDER CONSTRUCTION. A940993 IN FN20877. V926147 WAS REFERRED FOR ENFORCEMENT. BLDG IS UNOCCUPIED. UST AREA IS FENCED I
Eval Division: Los Angeles County Department of Public Works
Eval Program: UST
Eval Source: CERS,

Eval General Type: Other/Unknown
Eval Date: 12-07-2017
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Los Angeles County Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection

PETRO LOCK INC (FAC #20) (Continued) **S132628829**

Eval Date: 03-09-2017
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: CTLS DONE LATE(DUE 3/4/17,DONE 3/9/17). CERS NOT ACCEPTED(PLOT PLAN ,INACCURATE,OSDO HAS EXPIRED CERT DATE).
Eval Division: Los Angeles County Department of Public Works
Eval Program: UST
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 05-20-2016
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: ALL DOCUMENTS ARE IN THE LOG BOOK AND IN CERS/MON.CERT.03 04 16
Eval Division: Los Angeles County Department of Public Works
Eval Program: UST
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 06-28-2019
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: VACANT. NOTICE ISSUED TO PROPERTY OWNER TO APPLY FOR TRANSFER OF OWNERSHIP.
Eval Division: Los Angeles County Department of Public Works
Eval Program: UST
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 12-01-2016
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Trisha VanRossun, Store Operator.
Eval Division: Los Angeles County Fire Department
Eval Program: HW
Eval Source: CERS,

Eval General Type: Other/Unknown
Eval Date: 12-22-2017
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Los Angeles County Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 12-01-2016
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Trisha Van Rossun, Store Operator.
Eval Division: Los Angeles County Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Other/Unknown
Eval Date: 01-13-2022

PETRO LOCK INC (FAC #20) (Continued) **S132628829**

Violations Found: Yes
Eval Type: Other, not routine, done by local agency
Eval Notes: OUTSTANDING CUPA FEES. NOTICE EMAILED TO OWNER, FADEL MAIDA
Eval Division: Los Angeles County Department of Public Works
Eval Program: UST
Eval Source: CERS,

Eval General Type: Other/Unknown
Eval Date: 05-23-2017
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Los Angeles County Fire Department
Eval Program: HW
Eval Source: CERS,

Eval General Type: Other/Unknown
Eval Date: 10-04-2022
Violations Found: Yes
Eval Type: Other, not routine, done by local agency
Eval Notes: 1) CHANGE OF OWNERSHIP 2)TEMPORARY CLOSURE 3)OVERDUE FEES DUE
Eval Division: Los Angeles County Department of Public Works
Eval Program: UST
Eval Source: CERS,

Eval General Type: Other/Unknown
Eval Date: 11-12-2020
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: FACILITY STATUS INSPECTION. VACANT. UST'S ARE FENCED IN AND UNDER CONSTRUCTION. ONE UST INSTALLED IN OPEN EXCAVATION. BLDG NOT OCCUP'D
Eval Division: Los Angeles County Department of Public Works
Eval Program: UST
Eval Source: CERS,

Affiliation:
Affiliation Type Desc: Identification Signer
Entity Name: JILL NORRIS
Entity Title: OWNER
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

Affiliation Type Desc: Legal Owner
Entity Name: JILL NORRIS/PETRO LOCK INC
Entity Title: Not reported
Affiliation Address: 45315 TREVOR AVE
Affiliation City: LANCASTER
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 93534
Affiliation Phone: (661) 948-6044,

Affiliation Type Desc: UST Tank Owner

PETRO LOCK INC (FAC #20) (Continued) **S132628829**

Entity Name:	PETRO LOCK INC
Entity Title:	Not reported
Affiliation Address:	45315 TREVOR AVE
Affiliation City:	LANCASTER
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	93534
Affiliation Phone:	(661) 948-6044,
Affiliation Type Desc:	Operator
Entity Name:	Jill Norris
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(661) 510-0207,
Affiliation Type Desc:	CUPA District
Entity Name:	Los Angeles County Fire
Entity Title:	Not reported
Affiliation Address:	5825 Rickenbacker Road
Affiliation City:	Commerce
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	90040-3027
Affiliation Phone:	(323) 890-4000,
Affiliation Type Desc:	Document Preparer
Entity Name:	Mike Anderson
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,
Affiliation Type Desc:	Environmental Contact
Entity Name:	Jill Norris
Entity Title:	Not reported
Affiliation Address:	45315 TREVOR AVE.
Affiliation City:	LANCASTER
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	93539
Affiliation Phone:	,
Affiliation Type Desc:	UST Permit Applicant
Entity Name:	Nancy Welty
Entity Title:	Tank Owner
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported

PETRO LOCK INC (FAC #20) (Continued) **S132628829**

Affiliation Phone: (661) 948-6044,

Affiliation Type Desc: Facility Mailing Address
Entity Name: Mailing Address
Entity Title: Not reported
Affiliation Address: 45315 TREVOR AVE
Affiliation City: LANCASTER
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 93534
Affiliation Phone: ,

Affiliation Type Desc: Parent Corporation
Entity Name: Los Angeles County CUPA Non-Regulated/Not Applicable Facilities
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

Affiliation Type Desc: UST Property Owner Name
Entity Name: JEWELL ELLIS
Entity Title: Not reported
Affiliation Address: 45315 TREVOR AVE
Affiliation City: LANCASTER
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 93534
Affiliation Phone: (661) 948-6044,

Affiliation Type Desc: UST Tank Operator
Entity Name: PETRO LOCK INC
Entity Title: Not reported
Affiliation Address: 45315 TREVOR AVE
Affiliation City: LANCASTER
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 93534
Affiliation Phone: (661) 948-6044,

B9 **BIG NINE MARKET** **HIST UST** **U001586665**
WSW **8841 EAST AVENUE J** **N/A**
< 1/8 **LANCASTER, CA 93534**
0.084 mi.
446 ft. **Site 2 of 9 in cluster B**

Relative:
Higher

Actual:
2451 ft.

HIST UST:
Name: BIG NINE MARKET
Address: 8841 EAST AVENUE J
City,State,Zip: LANCASTER, CA 93534
File Number: 000281dc

URL:
Region: STATE
Facility ID: 00000033811

BIG NINE MARKET (Continued) **U001586665**

Facility Type:	Gas Station
Other Type:	C-STORE
Contact Name:	JEWELL ELLIS
Telephone:	8059461736
Owner Name:	SAV-MOR OIL CO.
Owner Address:	5150 WILSHIRE BOULEVARD
Owner City,St,Zip:	LOS ANGELES, CA 90036
Total Tanks:	0003
Tank Num:	001
Container Num:	326-1
Year Installed:	1976
Tank Capacity:	00008000
Tank Used for:	PRODUCT
Type of Fuel:	REGULAR
Container Construction Thickness:	1/4"
Leak Detection:	Visual, Stock Inventor, Pressure Test
Tank Num:	002
Container Num:	326-2
Year Installed:	1976
Tank Capacity:	00008000
Tank Used for:	PRODUCT
Type of Fuel:	UNLEADED
Container Construction Thickness:	1/4"
Leak Detection:	Visual, Stock Inventor, Pressure Test
Tank Num:	003
Container Num:	326-3
Year Installed:	1976
Tank Capacity:	00008000
Tank Used for:	PRODUCT
Type of Fuel:	PREMIUM
Container Construction Thickness:	1/4"
Leak Detection:	Visual, Stock Inventor, Pressure Test

Click here for Geo Tracker PDF:

B10
WSW
< 1/8
0.084 mi.
446 ft.

PETRO LOCK INC (FAC #20) **CERS HAZ WASTE** **S132628544**
8841 E AVENUE J **N/A**
LANCASTER, CA 93534

Site 3 of 9 in cluster B

Relative:
Higher

Actual:
2451 ft.

CERS HAZ WASTE:

Name:	PETRO LOCK INC (FAC #20)
Address:	8841 E AVENUE J
City,State,Zip:	LANCASTER, CA 93534
Site ID:	923459
CERS ID:	10288282
CERS Description:	Hazardous Waste Generator

Violations:

Site ID:	923459
Site Name:	PETRO LOCK INC (FAC #20)
Violation Date:	10-04-2022
Citation:	HSC 6.7 25298 - California Health and Safety Code, Chapter 6.7, Section(s) 25298

PETRO LOCK INC (FAC #20) (Continued) **S132628544**

Violation Description:	Failure to comply with temporary closure requirements.
Violation Notes:	NO PERMIT NEW OWNER; OUTSTANDING FEES FY 20/21, 21/22, 22/23 TANKS NOT IN USE APPLY FOR A PERMIT DUE TO TRANSFER OF OWNERSHIP; PAY OUTSTANDING FEEAPPLY FOR TEMPORARY CLOSURE
Violation Division:	Los Angeles County Department of Public Works
Violation Program:	UST
Violation Source:	CERS,
Site ID:	923459
Site Name:	PETRO LOCK INC (FAC #20)
Violation Date:	03-09-2017
Citation:	23 CCR 16 2632(d)(1)(C), 2641(h), 2711(a)(8) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2632(d)(1)(C), 2641(h), 2711(a)(8)
Violation Description:	Failure to submit or update a plot plan.
Violation Notes:	Returned to compliance on 03/28/2017.
Violation Division:	Los Angeles County Department of Public Works
Violation Program:	UST
Violation Source:	CERS,
Site ID:	923459
Site Name:	PETRO LOCK INC (FAC #20)
Violation Date:	03-09-2017
Citation:	HSC 6.7 25284.2 - California Health and Safety Code, Chapter 6.7, Section(s) 25284.2
Violation Description:	Failure to test the spill bucket annually.
Violation Notes:	Returned to compliance on 03/28/2017.
Violation Division:	Los Angeles County Department of Public Works
Violation Program:	UST
Violation Source:	CERS,
Site ID:	923459
Site Name:	PETRO LOCK INC (FAC #20)
Violation Date:	10-04-2022
Citation:	HSC 6.7 25284 - California Health and Safety Code, Chapter 6.7, Section(s) 25284
Violation Description:	Failure to obtain a valid permit to operate from the UPA including but not limited to unpaid permit fees.
Violation Notes:	NO PERMIT NEW OWNER; OUTSTANDING FEES FY 20/21, 21/22, 22/23 TANKS NOT IN USE APPLY FOR A PERMIT DUE TO TRANSFER OF OWNERSHIP; PAY OUTSTANDING FEEAPPLY FOR TEMPORARY CLOSURE
Violation Division:	Los Angeles County Department of Public Works
Violation Program:	UST
Violation Source:	CERS,
Site ID:	923459
Site Name:	PETRO LOCK INC (FAC #20)
Violation Date:	06-14-2023
Citation:	23 CCR 16 2641(j) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2641(j)
Violation Description:	Failure of the leak detection equipment to be installed, calibrated, operated, and/or maintained properly.
Violation Notes:	ABANDONED TANK SYSTEM. SITE VACANT. TANK EXCAVATION PIT OPEN. SUBMIT TRANSFER OF OWNERSHIP APP/FEE
Violation Division:	Los Angeles County Department of Public Works
Violation Program:	UST
Violation Source:	CERS,

PETRO LOCK INC (FAC #20) (Continued) **S132628544**

Site ID:	923459
Site Name:	PETRO LOCK INC (FAC #20)
Violation Date:	03-09-2017
Citation:	23 CCR 16 2712 - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712
Violation Description:	Failure to comply with any of the applicable requirements of the permit issued for the operation of the UST system.
Violation Notes:	Returned to compliance on 03/28/2017.
Violation Division:	Los Angeles County Department of Public Works
Violation Program:	UST
Violation Source:	CERS,

Site ID:	923459
Site Name:	PETRO LOCK INC (FAC #20)
Violation Date:	06-14-2023
Citation:	23 CCR 16 2712(b)(1)(G) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(b)(1)(G)
Violation Description:	Failure to comply with one or more of the following overfill prevention equipment requirements: Alert the transfer operator when the tank is 90 percent full by restricting the flow into the tank or triggering an audible and visual alarm; or Restrict delivery of flow to the tank at least 30 minutes before the tank overfills, provided the restriction occurs when the tank is filled to no more than 95 percent of capacity; and activate an audible alarm at least five minutes before the tank overfills; or Provide positive shut-off of flow to the tank when the tank is filled to no more than 95 percent of capacity; or Provide positive shut-off of flow to the tank so that none of the fittings located on the top of the tank are exposed to product due to overfilling. Install/retrofit overfill prevention equipment that does not use flow restrictors on vent piping to meet overfill prevention equipment requirements when the overfill prevention equipment is installed, repaired, or replaced on and after October 1, 2018. For USTs installed before October 1, 2018, perform an inspection by October 13, 2018 and every 36 months thereafter. For USTs installed on and after October 1, 2018, perform an inspection at installation and every 36 months thereafter. Inspected within 30 days after a repair to the overfill prevention equipment. Inspected using an applicable manufacturer guidelines, industry codes, engineering standards, or a method approved by a professional engineer. Inspected by a certified UST service technician. Maintain records of overfill prevention equipment inspection for 36 months.
Violation Notes:	ABANDONED TANK SYSTEM. SITE VACANT. TANK EXCAVATION PIT OPEN. SUBMIT TRANSFER OF OWNERSHIP APP/FEE
Violation Division:	Los Angeles County Department of Public Works
Violation Program:	UST
Violation Source:	CERS,

Site ID:	923459
Site Name:	PETRO LOCK INC (FAC #20)
Violation Date:	06-14-2023
Citation:	23 CCR 16 2712(f) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(f)
Violation Description:	Failure to implement the corrections specified in the inspection report within 30 days of receiving an inspection report from either the UPA or special inspector.
Violation Notes:	ABANDONED TANK SYSTEM. SITE VACANT. TANK EXCAVATION PIT OPEN. SUBMIT TRANSFER OF OWNERSHIP APP/FEE

PETRO LOCK INC (FAC #20) (Continued) **S132628544**

Violation Division: Los Angeles County Department of Public Works
Violation Program: UST
Violation Source: CERS,

Site ID: 923459
Site Name: PETRO LOCK INC (FAC #20)
Violation Date: 10-04-2022
Citation: 23 CCR 16 2712(f) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(f)
Violation Description: Failure to implement the corrections specified in the inspection report within 30 days of receiving an inspection report from either the UPA or special inspector.
Violation Notes: NO PERMIT NEW OWNER; OUTSTANDING FEES FY 20/21, 21/22, 22/23 TANKS NOT IN USE APPLY FOR A PERMIT DUE TO TRANSFER OF OWNERSHIP; PAY OUTSTANDING FEEAPPLY FOR TEMPORARY CLOSURE
Violation Division: Los Angeles County Department of Public Works
Violation Program: UST
Violation Source: CERS,

Site ID: 923459
Site Name: PETRO LOCK INC (FAC #20)
Violation Date: 06-28-2019
Citation: HSC 6.7 25284 - California Health and Safety Code, Chapter 6.7, Section(s) 25284
Violation Description: Failure to obtain a valid permit to operate from the UPA including but not limited to unpaid permit fees.
Violation Notes: Not reported
Violation Division: Los Angeles County Department of Public Works
Violation Program: UST
Violation Source: CERS,

Site ID: 923459
Site Name: PETRO LOCK INC (FAC #20)
Violation Date: 01-13-2022
Citation: 23 CCR 16 2712 - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712
Violation Description: Failure to comply with any of the applicable requirements of the permit issued for the operation of the UST system.
Violation Notes: OUTSTANDING CUPA FEES - CURRENT BILL FOR $2353 PAY IN FULL TO FIRE DEPARTMENT
Violation Division: Los Angeles County Department of Public Works
Violation Program: UST
Violation Source: CERS,

Site ID: 923459
Site Name: PETRO LOCK INC (FAC #20)
Violation Date: 06-07-2022
Citation: 23 CCR 16 2712 - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712
Violation Description: Failure to comply with any of the applicable requirements of the permit issued for the operation of the UST system.
Violation Notes: TRACKING VIOLATION. ENFORCEMENT.
Violation Division: Los Angeles County Department of Public Works
Violation Program: UST
Violation Source: CERS,

Site ID: 923459

PETRO LOCK INC (FAC #20) (Continued) **S132628544**

Site Name:	PETRO LOCK INC (FAC #20)
Violation Date:	07-01-2020
Citation:	HSC 6.7 25284 - California Health and Safety Code, Chapter 6.7, Section(s) 25284
Violation Description:	Failure to obtain a valid permit to operate from the UPA including but not limited to unpaid permit fees.
Violation Notes:	TRACKING VIOLATION
Violation Division:	Los Angeles County Department of Public Works
Violation Program:	UST
Violation Source:	CERS,
Site ID:	923459
Site Name:	PETRO LOCK INC (FAC #20)
Violation Date:	05-17-2021
Citation:	23 CCR 16 2712(f) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(f)
Violation Description:	Failure to implement the corrections specified in the inspection report within 30 days of receiving an inspection report from either the UPA or special inspector.
Violation Notes:	EXISTING NVRT, THIS NOTICE WAS NOT ISSUED BUT IS FOR TRACKING PURPOSES ONLY
Violation Division:	Los Angeles County Department of Public Works
Violation Program:	UST
Violation Source:	CERS,
Site ID:	923459
Site Name:	PETRO LOCK INC (FAC #20)
Violation Date:	06-14-2023
Citation:	HSC 6.7 25284.2 - California Health and Safety Code, Chapter 6.7, Section(s) 25284.2
Violation Description:	"Failure to meet one or more of the following requirements: Install or maintain a liquid-tight spill container. Have a minimum capacity of five gallons. Have a functional drain valve or other method for the removal of liquid from the spill container. Be resistant to galvanic corrosion. Perform a tightness test at installation, every 12 months thereafter, or within 30 days after a repair to the spill container. Tested using applicable manufacturer guidelines, industry codes, engineering standards, or a method approved by a professional engineer. Tested by a certified UST service technician. Maintain records of spill containment testing for 36 months. "
Violation Notes:	ABANDONED TANK SYSTEM. SITE VACANT. TANK EXCAVATION PIT OPEN. SUBMIT TRANSFER OF OWNERSHIP APP/FEE
Violation Division:	Los Angeles County Department of Public Works
Violation Program:	UST
Violation Source:	CERS,
Site ID:	923459
Site Name:	PETRO LOCK INC (FAC #20)
Violation Date:	12-01-2016
Citation:	HSC 6.5 Multiple - California Health and Safety Code, Chapter 6.5, Section(s) Multiple
Violation Description:	Hazardous Waste Generator Program - Training - General
Violation Notes:	Returned to compliance on 03/24/2017. OBSERVATION: This facility s EPA ID number is inactive. A hazardous waste generator shall not treat, store, dispose of, transport or offer for transportation, hazardous waste without an EPA ID number. CORRECTIVE ACTION: Immediately contact DTSC and reactivate your EPA ID number and submit evidence to the

PETRO LOCK INC (FAC #20) (Continued) **S132628544**

	CUPA.
Violation Division:	Los Angeles County Fire Department
Violation Program:	HW
Violation Source:	CERS,
Site ID:	923459
Site Name:	PETRO LOCK INC (FAC #20)
Violation Date:	06-14-2023
Citation:	HSC 6.7 25284 - California Health and Safety Code, Chapter 6.7, Section(s) 25284
Violation Description:	Failure to obtain a valid permit to operate from the UPA including but not limited to unpaid permit fees.
Violation Notes:	ABANDONED TANK SYSTEM. SITE VACANT. TANK EXCAVATION PIT OPEN. SUBMIT TRANSFER OF OWNERSHIP APP/FEE
Violation Division:	Los Angeles County Department of Public Works
Violation Program:	UST
Violation Source:	CERS,
Site ID:	923459
Site Name:	PETRO LOCK INC (FAC #20)
Violation Date:	03-09-2017
Citation:	23 CCR 16 2715(a) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2715(a)
Violation Description:	Failure to notify the CUPA of the designated operator (DO) identification and/or change of the DO within 30 days.
Violation Notes:	Returned to compliance on 03/28/2017.
Violation Division:	Los Angeles County Department of Public Works
Violation Program:	UST
Violation Source:	CERS,
Site ID:	923459
Site Name:	PETRO LOCK INC (FAC #20)
Violation Date:	12-01-2016
Citation:	19 CCR 6.95 25508(a)(1) - California Code of Regulations, Title 19, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit the Business Activities Page and/or Business Owner Operator Identification Page.
Violation Notes:	Returned to compliance on 06/12/2017. OBSERVATION: The Business Activities page is not accurate. CORRECTIVE ACTION: Update the EPA ID information and resubmit electronically in the California Environmental Reporting System (CERS).
Violation Division:	Los Angeles County Fire Department
Violation Program:	HMRRP
Violation Source:	CERS,
Site ID:	923459
Site Name:	PETRO LOCK INC (FAC #20)
Violation Date:	03-09-2017
Citation:	23 CCR 16 2715(i) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2715(i)
Violation Description:	Failure to have a properly qualified service technician test leak detection equipment as required every 12 months (vapor, pressure, hydrostatic (VPH) system, sensors, line-leak detectors (LLD), automatic tank gauge (ATG), etc.).
Violation Notes:	Returned to compliance on 03/28/2017.
Violation Division:	Los Angeles County Department of Public Works
Violation Program:	UST

PETRO LOCK INC (FAC #20) (Continued) **S132628544**

Violation Source: CERS,

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 06-07-2022
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: VACANT. TANK AREA FENCED. OPEN EXCAVATION WITH TANK TOP VISIBLE. BUI LDING IS NOT OCCUPIED. SITE IS OVERGROWN WITH TUMBLEWEEDS.
Eval Division: Los Angeles County Department of Public Works
Eval Program: UST
Eval Source: CERS,

Eval General Type: Other/Unknown
Eval Date: 01-08-2021
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: SITE IS VACANT,FENCE SURROUNDING PROPERTY.1 UST IS SETTLED IN DIRT PIT WITH TANK TOP EXPOSED.MARKET DOES NOT SEEM TO BE OPERATING.
Eval Division: Los Angeles County Department of Public Works
Eval Program: UST
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 03-14-2018
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: UST AND DISPENSER SUMPS HAVE SENSORS IN PLACE. UST RECORDS ARE AVAIL ABLE AT THE SITE.
Eval Division: Los Angeles County Department of Public Works
Eval Program: UST
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 05-17-2021
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: SITE IS NOT IN OPERATION. NEW UST HAS BEEN INSTALLED BUT IS STILL EXPOSED. PIPING IN FRONT OF DISPENSERS EXPOSED. PENDING NVRT.
Eval Division: Los Angeles County Department of Public Works
Eval Program: UST
Eval Source: CERS,

Eval General Type: Other/Unknown
Eval Date: 05-23-2017
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Los Angeles County Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 06-13-2023
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: NEWEST OWNER HAS NOT APPLIED FOR TRANSFER OF OWNERSHIP. SYSTEM IS NOT

PETRO LOCK INC (FAC #20) (Continued) **S132628544**

BEING OPERATED. SITE CURRENTLY VACANT. UST EXCAVATION PIT OPEN.
Eval Division: Los Angeles County Department of Public Works
Eval Program: UST
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 07-01-2020
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: VACANT. UST'S UNDER CONSTRUCTION. A940993 IN FN20877. V926147 WAS REFERRED FOR ENFORCEMENT. BLDG IS UNOCCUPIED. UST AREA IS FENCED I
Eval Division: Los Angeles County Department of Public Works
Eval Program: UST
Eval Source: CERS,

Eval General Type: Other/Unknown
Eval Date: 12-07-2017
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Los Angeles County Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 03-09-2017
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: CTLS DONE LATE(DUE 3/4/17,DONE 3/9/17). CERS NOT ACCEPTED(PLOT PLAN ,INACCURATE,OSDO HAS EXPIRED CERT DATE).
Eval Division: Los Angeles County Department of Public Works
Eval Program: UST
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 05-20-2016
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: ALL DOCUMENTS ARE IN THE LOG BOOK AND IN CERS/MON.CERT.03 04 16
Eval Division: Los Angeles County Department of Public Works
Eval Program: UST
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 06-28-2019
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: VACANT. NOTICE ISSUED TO PROPERTY OWNER TO APPLY FOR TRANSFER OF OWNERSHIP.
Eval Division: Los Angeles County Department of Public Works
Eval Program: UST
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 12-01-2016
Violations Found: Yes
Eval Type: Routine done by local agency

PETRO LOCK INC (FAC #20) (Continued) **S132628544**

Eval Notes: Trisha VanRossun, Store Operator.
Eval Division: Los Angeles County Fire Department
Eval Program: HW
Eval Source: CERS,

Eval General Type: Other/Unknown
Eval Date: 12-22-2017
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Los Angeles County Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 12-01-2016
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Trisha Van Rossun, Store Operator.
Eval Division: Los Angeles County Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Other/Unknown
Eval Date: 01-13-2022
Violations Found: Yes
Eval Type: Other, not routine, done by local agency
Eval Notes: OUTSTANDING CUPA FEES. NOTICE EMAILED TO OWNER, FADEL MAIDA
Eval Division: Los Angeles County Department of Public Works
Eval Program: UST
Eval Source: CERS,

Eval General Type: Other/Unknown
Eval Date: 05-23-2017
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Not reported
Eval Division: Los Angeles County Fire Department
Eval Program: HW
Eval Source: CERS,

Eval General Type: Other/Unknown
Eval Date: 10-04-2022
Violations Found: Yes
Eval Type: Other, not routine, done by local agency
Eval Notes: 1) CHANGE OF OWNERSHIP 2)TEMPORARY CLOSURE 3)OVERDUE FEES DUE
Eval Division: Los Angeles County Department of Public Works
Eval Program: UST
Eval Source: CERS,

Eval General Type: Other/Unknown
Eval Date: 11-12-2020
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: FACILITY STATUS INSPECTION. VACANT. UST'S ARE FENCED IN AND UNDER CONSTRUCTION. ONE UST INSTALLED IN OPEN EXCAVATION. BLDG NOT OCCUP'D
Eval Division: Los Angeles County Department of Public Works

PETRO LOCK INC (FAC #20) (Continued) **S132628544**

Eval Program: UST
Eval Source: CERS,

Affiliation:
Affiliation Type Desc: Identification Signer
Entity Name: JILL NORRIS
Entity Title: OWNER
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

Affiliation Type Desc: Legal Owner
Entity Name: JILL NORRIS/PETRO LOCK INC
Entity Title: Not reported
Affiliation Address: 45315 TREVOR AVE
Affiliation City: LANCASTER
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 93534
Affiliation Phone: (661) 948-6044,

Affiliation Type Desc: UST Tank Owner
Entity Name: PETRO LOCK INC
Entity Title: Not reported
Affiliation Address: 45315 TREVOR AVE
Affiliation City: LANCASTER
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 93534
Affiliation Phone: (661) 948-6044,

Affiliation Type Desc: Operator
Entity Name: Jill Norris
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: (661) 510-0207,

Affiliation Type Desc: CUPA District
Entity Name: Los Angeles County Fire
Entity Title: Not reported
Affiliation Address: 5825 Rickenbacker Road
Affiliation City: Commerce
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 90040-3027
Affiliation Phone: (323) 890-4000,

Affiliation Type Desc: Document Preparer
Entity Name: Mike Anderson
Entity Title: Not reported

PETRO LOCK INC (FAC #20) (Continued) **S132628544**

Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,
Affiliation Type Desc:	Environmental Contact
Entity Name:	Jill Norris
Entity Title:	Not reported
Affiliation Address:	45315 TREVOR AVE.
Affiliation City:	LANCASTER
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	93539
Affiliation Phone:	,
Affiliation Type Desc:	UST Permit Applicant
Entity Name:	Nancy Welty
Entity Title:	Tank Owner
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(661) 948-6044,
Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	45315 TREVOR AVE
Affiliation City:	LANCASTER
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	93534
Affiliation Phone:	,
Affiliation Type Desc:	Parent Corporation
Entity Name:	Los Angeles County CUPA Non-Regulated/Not Applicable Facilities
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,
Affiliation Type Desc:	UST Property Owner Name
Entity Name:	JEWELL ELLIS
Entity Title:	Not reported
Affiliation Address:	45315 TREVOR AVE
Affiliation City:	LANCASTER
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	93534
Affiliation Phone:	(661) 948-6044,

PETRO LOCK INC (FAC #20) (Continued) **S132628544**

Affiliation Type Desc:	UST Tank Operator
Entity Name:	PETRO LOCK INC
Entity Title:	Not reported
Affiliation Address:	45315 TREVOR AVE
Affiliation City:	LANCASTER
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	93534
Affiliation Phone:	(661) 948-6044,

B11 **PETRO LOCK INC (FAC #20)** **UST** **U004265172**
WSW **8841 E AVENUE J** **N/A**
< 1/8 **LANCASTER, CA 93534**
0.084 mi.
446 ft. **Site 4 of 9 in cluster B**

Relative: UST:
Higher

Actual: Name:	PETRO LOCK INC (FAC #20)
2451 ft. Address:	8841 E AVENUE J
City,State,Zip:	LANCASTER, CA 93534
Facility ID:	LACoFA0004194
Permitting Agency:	Los Angeles County Fire Department
CERSID:	10288282
Latitude:	34.6903200
Longitude:	-117.971430
Owner type:	Non-Government
Facility type:	Motor Vehicle Fueling
Num of inuse ust:	Not reported
Num of closed ust:	0
Num of oos ust:	0
Epa region:	9
Tribal lands:	No
Tank owner name:	PETRO LOCK INC
Tank owner mailing address:	45315 TREVOR AVE
Tank owner mailing city:	LANCASTER
Tank owner mailing zip:	93534
Tank owner mailing state:	CA
Tank operator name:	PETRO LOCK INC
Tank operator mailing address:	45315 TREVOR AVE
Tank operator mailing city:	LANCASTER
Tank operator mailing zip:	93534
Tank operator mailing state:	CA
Tankidnumber:	2
Tank status:	Confirmed/Updated Information
Tank configuration:	Stand Alone Tank
Tank closure date:	Not reported
Tank installation date:	1/9/1999 12:00:00 AM
Tank num of compartments:	1
Tank contents:	Midgraded Unleaded
Tank capacity gallons:	8000
Tank type:	Double Wall
Tank pc construction:	Steel
Tank pwpiping construction:	Flexible
Tank piping type:	Pressure
Tank piping construction:	Double Walled
Tank sacrificial anode:	No
Tank cp impressed current:	No

PETRO LOCK INC (FAC #20) (Continued) **U004265172**

Tank cp shutoff:	Yes
Tank alarms:	No
Tank ball float:	No
Tank spill bucket:	Yes

Name:	PETRO LOCK INC (FAC #20)
Address:	8841 E AVENUE J
City,State,Zip:	LANCASTER, CA 93534
Facility ID:	LACoFA0004194
Permitting Agency:	Los Angeles County Fire Department
CERSID:	10288282
Latitude:	34.6903200
Longitude:	-117.971430
Owner type:	Non-Government
Facility type:	Motor Vehicle Fueling
Num of inuse ust:	Not reported
Num of closed ust:	0
Num of oos ust:	0
Epa region:	9
Tribal lands:	No
Tank owner name:	PETRO LOCK INC
Tank owner mailing address:	45315 TREVOR AVE
Tank owner mailing city:	LANCASTER
Tank owner mailing zip:	93534
Tank owner mailing state:	CA
Tank operator name:	PETRO LOCK INC
Tank operator mailing address:	45315 TREVOR AVE
Tank operator mailing city:	LANCASTER
Tank operator mailing zip:	93534
Tank operator mailing state:	CA
Tankidnumber:	1
Tank status:	Confirmed/Updated Information
Tank configuration:	Stand Alone Tank
Tank closure date:	Not reported
Tank installation date:	1/9/1999 12:00:00 AM
Tank num of compartments:	1
Tank contents:	Regular Unleaded
Tank capacity gallons:	8000
Tank type:	Double Wall
Tank pc construction:	Steel
Tank pwpiping construction:	Flexible
Tank piping type:	Pressure
Tank piping construction:	Double Walled
Tank sacrificial anode:	No
Tank cp impressed current:	No
Tank cp shutoff:	Yes
Tank alarms:	No
Tank ball float:	No
Tank spill bucket:	Yes

B12 **PETRO LOCK INC FAC STE 20** **RCRA NonGen / NLR** **1024859201**
WSW **8841 E AVE J** **CAL000426132**
< 1/8 **LANCASTER, CA 93534**
0.084 mi.
446 ft. **Site 5 of 9 in cluster B**

Relative: **Higher**

Actual: **2451 ft.**

RCRA Listings:

Date Form Received by Agency:		20200922
Handler Name:		Petro Lock Inc Fac Ste 20
Handler Address:		8841 E Ave J
Handler City,State,Zip:		LANCASTER, CA 93534
EPA ID:		CAL000426132
Contact Name:		NANCY WELTY
Contact Address:		45315 N TREVOR AVE
Contact City,State,Zip:		LANCASTER, CA 93534
Contact Telephone:		661-948-6044
Contact Fax:		Not reported
Contact Email:		NANCY@PETROLOCK.COM
Contact Title:		Not reported
EPA Region:		09
Land Type:		Not reported
Federal Waste Generator Description:		Not a generator, verified
Non-Notifier:		Not reported
Biennial Report Cycle:		Not reported
Accessibility:		Not reported
Active Site Indicator:		Not reported
State District Owner:		Not reported
State District:		Not reported
Mailing Address:		45315 N TREVOR AVE
Mailing City,State,Zip:		LANCASTER, CA 93534-0000
Owner Name:	Not reported	
Owner Type:		Not reported
Operator Name:	Petro Lock Inc	
Operator Type:		Other
Short-Term Generator Activity:		No
Importer Activity:		No
Mixed Waste Generator:		No
Transporter Activity:		No
Transfer Facility Activity:		No
Recycler Activity with Storage:		No
Small Quantity On-Site Burner Exemption:		No
Smelting Melting and Refining Furnace Exemption:		No
Underground Injection Control:		No
Off-Site Waste Receipt:		No
Universal Waste Indicator:		No
Universal Waste Destination Facility:		No
Federal Universal Waste:		No
Active Site State-Reg Handler:		---
Federal Facility Indicator:		Not reported
Hazardous Secondary Material Indicator:		N
Sub-Part K Indicator:		Not reported
2018 GPRA Permit Baseline:		Not on the Baseline
2018 GPRA Renewals Baseline:		Not on the Baseline
202 GPRA Corrective Action Baseline:		No
Subject to Corrective Action Universe:		No
Non-TSDFs Where RCRA CA has Been Imposed Universe:		No
Corrective Action Priority Ranking:		No NCAPS ranking
Environmental Control Indicator:		No
Institutional Control Indicator:		No

PETRO LOCK INC FAC STE 20 (Continued) **1024859201**

Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20200923
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name: NANCY WELTY PRESIDENT	
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	45315 N TREVOR AVE
Owner/Operator City,State,Zip:	LANCASTER, CA 93534-0000
Owner/Operator Telephone:	661-948-6044
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name: PETRO LOCK INC	
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	45315 N TREVOR AVE
Owner/Operator City,State,Zip:	LANCASTER, CA 93534
Owner/Operator Telephone:	661-948-6044
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name: NANCY WELTY	
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	45315 N TREVOR AVE
Owner/Operator City,State,Zip:	LANCASTER, CA 93534
Owner/Operator Telephone:	661-948-6044
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	20200922

PETRO LOCK INC FAC STE 20 (Continued) **1024859201**

Handler Name: PETRO LOCK INC FAC STE 20
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: No
Electronic Manifest Broker: No

Receive Date: 20170324
Handler Name: PETRO LOCK INC FAC STE 20
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Code: 44719
NAICS Description: Other Gasoline Stations

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

B13 **PETRO LOCK INC (FAC #20)** **UST FINDER** **1028187472**
WSW **8841 E AVENUE J** **N/A**
< 1/8 **LANCASTER, CA 93534**
0.084 mi.
446 ft. **Site 6 of 9 in cluster B**

Relative:
Higher

Actual:
2451 ft.

UST FINDER:
Object ID: 731703
Facility ID: CA10288282
Name: PETRO LOCK INC (FAC #20)
Address: 8841 E AVENUE J
City,State,Zip: LANCASTER, CA 93534
Address Match Type: StreetAddress
Open USTs: 2
Closed USTs: Not reported
TOS USTs: Not reported
Population 1500ft: 90
Private Wells 1500ft: 27
Within 100yr Floodplain: Yes
Land Use: Non-Developed

PETRO LOCK INC (FAC #20) (Continued) **1028187472**

Within SPA:	Not reported
SPA PWS Facility ID:	Not reported
SPA Water Type:	Not reported
SPA Facility Type:	Not reported
SPA HUC12:	Not reported
Within WHPA:	Yes
WHPA PWS Facility ID:	CA1900145_16884
WHPA Water Type:	GW - Ground water
WHPA Facility Type:	WL - Well
WHPA HUC12:	180902062401
Facility Status:	Open UST(s)
Date of Last Inspection:	Not reported
EPA Region:	9
Tribe:	Not reported
Coordinate Source:	Geocode
X Coord:	-117.9714848
Y Coord:	34.690346343
Latitude:	34.6903463426039
Longitude:	-117.971484800415

UST FINDER:

Object ID:	2259910
Facility ID:	CA10288282
Tank ID:	CA10288282-001_A Stand-alone Tank_1
Tank Status:	Open
Installation Date:	1999/01/09 15:59:59+00
Removal Date:	Not reported
Tank Capacity:	8000
Substances:	Regular Unleaded
Tank Wall Type:	Double Wall

Object ID:	2259911
Facility ID:	CA10288282
Tank ID:	CA10288282-002_A Stand-alone Tank_1
Tank Status:	Open
Installation Date:	1999/01/09 15:59:59+00
Removal Date:	Not reported
Tank Capacity:	8000
Substances:	Midgrade Unleaded
Tank Wall Type:	Double Wall

B14 **BIG NINE MARKET** **UST FINDER RELEASE** **1028924709**
WSW **8841 E AVE J** **N/A**
< 1/8 **LANCASTER, CA 93534**
0.084 mi.
446 ft. **Site 7 of 9 in cluster B**

Relative:
Higher

Actual:
2451 ft.

UST FINDER RELEASE:

Object ID:	66360
Facility ID:	Not reported
Lust ID:	CAT0603799274
Name:	BIG NINE MARKET
Address:	8841 E AVE J
City,State,Zip:	LANCASTER, CA 93534
Address Match Type:	StreetAddress
Reported Date:	Not reported
Status:	No Further Action

BIG NINE MARKET (Continued) **1028924709**

Substance:	Not reported
Population within 1500ft:	90
Domestic Wells within 1500ft:	27
Land Use:	Non-Developed
Within SPA:	No
SPA PWS Facility ID:	Not reported
SPA Water Type:	Not reported
SPA Facility Type:	Not reported
SPA HUC12:	Not reported
Within WHPA:	Yes
WHPA PWS Facility ID:	CA1900145_16884
WHPA Water Type:	GW - Ground water
WHPA Facility Type:	WL - Well
WHPA HUC12:	180902062401
Within 100yr Floodplain:	Yes
Tribe:	Not reported
EPA Region:	9
NFA Letter 1:	Not reported
NFA Letter 2:	Not reported
NFA Letter 3:	Not reported
NFA Letter 4:	Not reported
Closed With Residual Contaminate:	Not reported
Coordinate Source:	Geocode
X Coord:	-117.97149
Y Coord:	34.69034
Latitude:	34.6903399999999
Longitude:	-117.97149

B15 **BIG NINE MARKET** **UST** **U004049274**
WSW **8841 E AVENUE J** **N/A**
< 1/8 **LANCASTER, CA 93535**
0.084 mi.
446 ft. **Site 8 of 9 in cluster B**

Relative: **Higher**

Actual: **2451 ft.**

UST:

Name:	BIG NINE MARKET
Address:	8841 E AVENUE J
City,State,Zip:	LANCASTER, CA 93535
Facility ID:	20877
Permitting Agency:	LOS ANGELES COUNTY
CERSID:	Not reported
Latitude:	34.6905552851988
Longitude:	-117.970279455185
Owner type:	Not reported
Facility type:	Not reported
Num of inuse ust:	Not reported
Num of closed ust:	Not reported
Num of oos ust:	Not reported
Epa region:	Not reported
Tribal lands:	Not reported
Tank owner name:	Not reported
Tank owner mailing address:	Not reported
Tank owner mailing city:	Not reported
Tank owner mailing zip:	Not reported
Tank owner mailing state:	Not reported
Tank operator name:	Not reported
Tank operator mailing address:	Not reported
Tank operator mailing city:	Not reported

BIG NINE MARKET (Continued) **U004049274**

Tank operator mailing zip:	Not reported
Tank operator mailing state:	Not reported
Tankidnumber:	Not reported
Tank status:	Not reported
Tank configuration:	Not reported
Tank closure date:	Not reported
Tank installation date:	Not reported
Tank num of compartments:	Not reported
Tank contents:	Not reported
Tank capacity gallons:	Not reported
Tank type:	Not reported
Tank pc construction:	Not reported
Tank pwpiping construction:	Not reported
Tank piping type:	Not reported
Tank piping construction:	Not reported
Tank sacrificial anode:	Not reported
Tank cp impressed current:	Not reported
Tank cp shutoff:	Not reported
Tank alarms:	Not reported
Tank ball float:	Not reported
Tank spill bucket:	Not reported

B16 **BIG NINE MARKET** **LUST** **S104735563**
WSW **8841 E AVE J** **SWEEPS UST** **N/A**
< 1/8 **LANCASTER, CA 93534** **Cortese**
0.084 mi. **CERS**
446 ft. **Site 9 of 9 in cluster B**

Relative:
Higher

Actual:
2451 ft.

LUST:

Name:	BIG NINE MARKET
Address:	8841 E AVE J
City,State,Zip:	LANCASTER, CA 93534
Lead Agency:	LAHONTAN RWQCB (REGION 6V)
Case Type:	LUST Cleanup Site

Geo Track:

Global Id:	T0603799274
Latitude:	34.690680423633
Longitude:	-117.970122656592
Status:	Completed - Case Closed
Status Date:	05/23/2007
Case Worker:	Not reported
RB Case Number:	6B1900986T
Local Agency:	LOS ANGELES COUNTY
File Location:	Not reported
Local Case Number:	Not reported
Potential Media Affect:	Under Investigation
Potential Contaminants of Concern:	Not reported
EPA Region:	9
Coordinate Source:	Google Map Move
Quantity Released Gallons:	Not reported
Begin Date:	01/13/1999
Leak Reported Date:	01/02/1965
How Discovered:	Not reported
How Discovered Description:	Not reported
Discharge Source:	Not reported
Discharge Cause:	Not reported
Stop Method:	Not reported

BIG NINE MARKET (Continued) **S104735563**

Stop Description:	Not reported
No Further Action Date:	05/23/2007
CA Water Watershed Name:	Antelope - Lancaster (626.50)
Dwr Groundwater Subbasin Name:	Antelope Valley (6-044)
Disadvantaged Community:	Severely Disadvantaged Community
CA Enviroscreen 3 Score:	41-45%
CA Enviroscreen 4 Score:	80-85%
Military DOD Site:	No
Facility Project Subtype:	Not reported
RWQCB Region:	LAHONTAN RWQCB (REGION 6V)
Claim Number:	16933
Claim Status:	Active
Site History:	Not reported

LUST:

Global Id:	T0603799274
Contact Type:	Local Agency Caseworker
Contact Name:	Manual Regalado
Organization Name:	LOS ANGELES COUNTY
Address:	Not reported
City:	Palmdale
Email:	mregalado@dpw.lacounty.gov
Phone Number:	Not reported

LUST:

Global Id:	T0603799274
Action Type:	RESPONSE
Date:	06/25/2003
Action:	Preliminary Site Assessment Report
Global Id:	T0603799274
Action Type:	RESPONSE
Date:	03/06/2003
Action:	Other Report / Document
Global Id:	T0603799274
Action Type:	RESPONSE
Date:	03/24/2003
Action:	Other Report / Document
Global Id:	T0603799274
Action Type:	ENFORCEMENT
Date:	05/23/2007
Action:	Closure/No Further Action Letter
Global Id:	T0603799274
Action Type:	RESPONSE
Date:	07/26/2006
Action:	Request for Closure
Global Id:	T0603799274
Action Type:	ENFORCEMENT
Date:	04/03/2002
Action:	Staff Letter
Global Id:	T0603799274
Action Type:	Other

BIG NINE MARKET (Continued) **S104735563**

Date: 01/02/1965
Action: Leak Reported

LUST:
Global Id: T0603799274
Status: Open - Case Begin Date
Status Date: 01/13/1999

Global Id: T0603799274
Status: Open - Site Assessment
Status Date: 09/13/2000

Global Id: T0603799274
Status: Open - Site Assessment
Status Date: 05/03/2002

Global Id: T0603799274
Status: Open - Site Assessment
Status Date: 06/09/2003

Global Id: T0603799274
Status: Completed - Case Closed
Status Date: 05/23/2007

LUST Region 6V:
Name: BIG NINE MARKET
Address: 8841 E AVE J
City: LANCASTER
Region: 6V
Case Number: 6B1900986T
Leak Record: 10/23/2000
Report Date: Not reported
Reported By Address: Not reported
Responsible Party: BLANK RP
Operator: MARK ULBERG
Cross Street: 90TH STREET EAST
Local Agency: 19000
Regional Board: 6V
Chemical: Not reported
Case Type: Undefined
Funding: Not reported
Enforce Type: SEL
How Found: Not reported
How Stopped: Not reported
Cause of Leak: Not reported
Leak Source: Not reported
Global ID: T0603799274
Stop Date: Not reported
Leak Confirm: 9/13/2000
Submit Workplan: 5/3/2002
Prelim Assess: 6/9/2003
Pollution Char: Not reported
Remed Plan: Not reported
Remed Action: Not reported
Monitoring: Not reported

BIG NINE MARKET (Continued) **S104735563**

Close Date:	Not reported
Discovered:	Not reported
Enforce Date:	Not reported
Review Date:	10/23/2000
GW Qualifier:	Not reported
Soil Qualifier:	Not reported
MTBE class:	D
Max MTBE Grnd Wtr:	0
Max MTBE Soil:	0
MTBE Counts:	2
MTBE Fuel:	0
MTBE Tested:	YES
Organization Name:	Not reported
Status:	Preliminary site assessment underway
Contact:	Not reported
Interim Action:	Not reported
Pilot Program:	LUST
Lat/Long:	34.690284 / -117.972267
Staff Initials:	DEF
Local Agency Staff:	UNK
Lead Agency:	Regional Board
Summary:	Substances involved: MTBE of 2.3 ppm, 0.63 ppm, .13 ppm detected under UST
Basin Number:	ANTELOPE VALLEY (6-4
Beneficial:	Not reported
Priority:	Not reported
UST Cleanup Fund ID:	Not reported
Suspended:	Not reported
Local Case Number:	Not reported
Amount:	Not reported
Abate Method:	Other
Water System:	Not reported
Well Name:	Not reported
Distance:	921.4901037
Wst Disch Reqrmnt Global ID:	Not reported
Wst Disch Reqrmnt Name:	Not reported

SWEEPS UST:

Name:	BIG NINE MARKET
Address:	8841 E AVE J
City:	LANCASTER
Status:	Active
Comp Number:	11560
Number:	9
Board Of Equalization:	44-008422
Referral Date:	06-30-89
Action Date:	Not reported
Created Date:	06-30-89
Owner Tank Id:	Not reported
SWRCB Tank Id:	19-000-011560-000001
Tank Status:	A
Capacity:	Not reported
Active Date:	06-30-89
Tank Use:	UNKNOWN
STG:	W
Content:	Not reported
Number Of Tanks:	3

BIG NINE MARKET (Continued) **S104735563**

Name:	BIG NINE MARKET
Address:	8841 E AVE J
City:	LANCASTER
Status:	Active
Comp Number:	11560
Number:	9
Board Of Equalization:	44-008422
Referral Date:	06-30-89
Action Date:	Not reported
Created Date:	06-30-89
Owner Tank Id:	Not reported
SWRCB Tank Id:	19-000-011560-000002
Tank Status:	A
Capacity:	Not reported
Active Date:	06-30-89
Tank Use:	UNKNOWN
STG:	W
Content:	Not reported
Number Of Tanks:	Not reported

Name:	BIG NINE MARKET
Address:	8841 E AVE J
City:	LANCASTER
Status:	Active
Comp Number:	11560
Number:	9
Board Of Equalization:	44-008422
Referral Date:	06-30-89
Action Date:	Not reported
Created Date:	06-30-89
Owner Tank Id:	Not reported
SWRCB Tank Id:	19-000-011560-000003
Tank Status:	A
Capacity:	Not reported
Active Date:	06-30-89
Tank Use:	UNKNOWN
STG:	W
Content:	Not reported
Number Of Tanks:	Not reported

CORTESE:

Name:	BIG NINE MARKET
Address:	8841 E AVE J
City,State,Zip:	LANCASTER, CA 93534
Region:	CORTESE
Envirostor Id:	Not reported
Global ID:	T0603799274
Site/Facility Type:	LUST CLEANUP SITE
Cleanup Status:	COMPLETED - CASE CLOSED
Status Date:	Not reported
Site Code:	Not reported
Latitude:	Not reported
Longitude:	Not reported
Owner:	Not reported
Enf Type:	Not reported
Swat R:	Not reported
Flag:	active

BIG NINE MARKET (Continued) **S104735563**

Order No:	Not reported
Waste Discharge System No:	Not reported
Effective Date:	Not reported
Region 2:	Not reported
WID Id:	Not reported
Solid Waste Id No:	Not reported
Waste Management Uit Name:	Not reported
File Name:	Active Open

CERS:

Name:	BIG NINE MARKET
Address:	8841 E AVE J
City,State,Zip:	LANCASTER, CA 93534
Site ID:	911334
CERS ID:	T0603799274
CERS Description:	Leaking Underground Storage Tank Cleanup Site

Affiliation:

Affiliation Type Desc:	Local Agency Caseworker
Entity Name:	Manual Regalado - LOS ANGELES COUNTY
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Palmdale
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,

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17 **44536 GRAPHIC STREET** **RCRA NonGen / NLR** **1027212397**
NE **44536 GRAPHIC STREET** **E MANIFEST** **CAC003176890**
< 1/8 **LANCASTER, CA 93535**
0.124 mi.
657 ft.

Relative:
Lower

Actual:
2447 ft.

RCRA Listings:

Date Form Received by Agency:	20220518
Handler Name:	44536 Graphic Street
Handler Address:	44536 Graphic Street
Handler City,State,Zip:	LANCASTER, CA 93535
EPA ID:	CAC003176890
Contact Name:	GERARDO RAMOS
Contact Address:	44536 GRAPHIC STREET
Contact City,State,Zip:	LANCASTER, CA 93535
Contact Telephone:	661-839-7103
Contact Fax:	Not reported
Contact Email:	GERARDGEN@YAHOO.COM
Contact Title:	Not reported
EPA Region:	09
Land Type:	Not reported
Federal Waste Generator Description:	Not a generator, verified
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Not reported
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	44536 GRAPHIC STREET

44536 GRAPHIC STREET (Continued) **1027212397**

Mailing City,State,Zip:		LANCASTER, CA 93535
Owner Name:	Gerardo Ramos	
Owner Type:		Other
Operator Name:	Gerardo Ramos	
Operator Type:		Other
Short-Term Generator Activity:		No
Importer Activity:		No
Mixed Waste Generator:		No
Transporter Activity:		No
Transfer Facility Activity:		No
Recycler Activity with Storage:		No
Small Quantity On-Site Burner Exemption:		No
Smelting Melting and Refining Furnace Exemption:		No
Underground Injection Control:		No
Off-Site Waste Receipt:		No
Universal Waste Indicator:		No
Universal Waste Destination Facility:		No
Federal Universal Waste:		No
Active Site State-Reg Handler:		---
Federal Facility Indicator:		Not reported
Hazardous Secondary Material Indicator:		N
Sub-Part K Indicator:		Not reported
2018 GPRA Permit Baseline:		Not on the Baseline
2018 GPRA Renewals Baseline:		Not on the Baseline
202 GPRA Corrective Action Baseline:		No
Subject to Corrective Action Universe:		No
Non-TSDFs Where RCRA CA has Been Imposed Universe:		No
Corrective Action Priority Ranking:		No NCAPS ranking
Environmental Control Indicator:		No
Institutional Control Indicator:		No
Human Exposure Controls Indicator:		N/A
Groundwater Controls Indicator:		N/A
Significant Non-Complier Universe:		No
Unaddressed Significant Non-Complier Universe:		No
Addressed Significant Non-Complier Universe:		No
Significant Non-Complier With a Compliance Schedule Universe:		No
Financial Assurance Required:		Not reported
Handler Date of Last Change:		20241212
Recognized Trader-Importer:		No
Recognized Trader-Exporter:		No
Importer of Spent Lead Acid Batteries:		No
Exporter of Spent Lead Acid Batteries:		No
Recycler Activity Without Storage:		No
Manifest Broker:		No
Sub-Part P Indicator:		No

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name: GERARDO RAMOS	
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	44536 GRAPHIC STREET
Owner/Operator City,State,Zip:	LANCASTER, CA 93535
Owner/Operator Telephone:	661-839-7103
Owner/Operator Telephone Ext:	Not reported

44536 GRAPHIC STREET (Continued) **1027212397**

Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: GERARDO RAMOS
Legal Status: Other
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: 44536 GRAPHIC STREET
Owner/Operator City,State,Zip: LANCASTER, CA 93535
Owner/Operator Telephone: 661-839-7103
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 20220518
Handler Name: 44536 GRAPHIC STREET
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: No
Electronic Manifest Broker: No

List of NAICS Codes and Descriptions:
NAICS Code: 56299
NAICS Description: All Other Waste Management Services

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

E MANIFEST:
Manifest Tracking Number: 023641818JJK
Last Updated Date: 20220705
Shipped Date: 20220530
Received Date: 20220613
Manifest Status: Signed
Submission Type: DataImage5Copy
Origin Type: Web
Generator EPA ID: CAC003176890
Generator Name: Gerardo Ramos
Generator Location Street Number: Not reported
Generator Location Street 1: 44536 GRAPHIC STREET
Generator Location Street 2: Not reported
Generator Location City: LANCASTER
Generator Location State: CA

44536 GRAPHIC STREET (Continued) **1027212397**

Generator Location Zip:	93535
Generator Mail Street Number:	Not reported
Generator Mail Street 1:	44536 GRAPHIC STREET
Generator Mail Street 2:	Not reported
Generator Mail City:	LANCASTER
Generator Mail Zip:	93535
Generator Mail State:	CA
Generator Contact Company Name:	Not reported
Designated Facility EPA ID:	AZR000520882
Designated Facility Name:	La Paz County Landfill
Designated Facility Mail Street Number:	Not reported
Designated Facility Mail Street 1:	Not reported
Designated Facility Mail Street 2:	26999 HIGHWAY 95
Designated Facility Mail City:	PARKER
Designated Facility Mail Zip:	85344
Designated Facility Mail State:	AZ
Designated Facility Location Street Number:	Not reported
Designated Facility Location Street 1:	26999 HIGHWAY 95
Designated Facility Location Street 2:	Not reported
Designated Facility Location City:	PARKER
Designated Facility Location Zip:	85344
Designated Facility Location State:	AZ
Designated Facility Contact Company Name:	Not reported
Manifest Residue Indicator:	N
Rejection Indicator:	N

Transporter:

Manifest Tracking Number:	023641818JJK
Transporter Line Number:	1
Transporter EPA ID:	CAL000160111
Transporter Name:	Alliance Evironmental Group

Manifest Tracking Number:	023641818JJK
Transporter Line Number:	2
Transporter EPA ID:	CAR000049064
Transporter Name:	E C T I

Waste Line:

Manifest Tracking Number:	023641818JJK
Waste Line Number:	1
U.S. DOT Hazardous Indicator:	Y
U.S. DOT ID Number:	NA2212
U.S. DOT Description:	Rq Na2212, Asbestos, 9, Pgiii
Non-Hazardous Waste Description:	Not reported
Number of Containers:	140
Container Type Code:	BA
Container Type Description:	Burlap, cloth, paper, or plastic bags
Waste Quantity:	10
Quantity Unit of Measure Code:	Y
Quantity Unit of Measure Description:	Cubic Yards
Waste Quantity, in Tons:	8.4
Acute Waste Quantity, in Tons:	0
Non-Acute Waste Quantity, in Tons:	8.4
Waste Quantity, in Kilograms:	7619.052
Acute Waste Quantity, in Kilograms:	0
Non-Acute Waste Quantity, in Kilorgrams:	7619.052

44536 GRAPHIC STREET (Continued) **1027212397**

Management Method Code:	H132
Management Method Description:	LANDFILL (WITH PRIOR TREATMENT AND/OR STABILIZATION)
Waste Residue Indicator:	N
Quantity Discrepancy Indicator:	N
Waste Type Discrepancy Indicator:	N
Waste Density:	Not reported
Waste Density Unit of Measure Code:	Not reported
Waste Density Unit of Measure Description:	Not reported
Form Code:	Not reported
Form Code Description:	Not reported
Source Code:	Not reported
Source Code Description:	Not reported
Waste Minimization Code:	Not reported
Waste Minimization Code Description:	Not reported
Consent Number:	Not reported
EPA Waste Indicator:	N
Federal Waste Codes:	Not reported
Quantity Haz Kg:	0
Quantity Haz Tons:	0
Quantity Non Haz Kg:	7619.052
Quantity Non Haz Tons:	8.4
State Waste Codes:	CA-151

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18 **007N010W18R002S** **PFAS WQP** **1027308187**
NW **N/A**
1/8-1/4 **, CA**
0.134 mi.
706 ft.

Relative: **Lower**

Actual: **2444 ft.**

PFAS WQP:

Year:	2023
Name:	007N010W18R002S
Address:	Not reported
City,State,Zip:	CA
Latitude:	34.693475
Longitude:	-117.97192778
Organization:	U.S. Geological Survey
Environmental Media Name:	Water
Activity Identifier:	967ee821-75f1-4e4e-84b5-72cf898f7090
Activity Type Code:	Sample - Routine, regular
Analysis Start Date:	44999
Project Identifier:	09U3SGS00
Monitoring Location Identifier:	USGS-344138117581901
Result Detection:	Not Detected
PFAS Chemical Name:	1-Octanesulfonic acid, 3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluoro-
Result Measure Value (ppt):	-
Result Measure Value:	-
Result Unit of Measure:	-
Detection/Quantitation Limit Type:	Censoring Level
Detection/Quantitation Measure Value:	7.1
Detection/Quantitation Unit of Measure:	ng/L
Laboratory Accreditation Indicator:	Not reported
Fish Species:	Not reported
Activity Comment:	Generated activity from observation import file file4f8c67873ce_bd7c983e5b2d480cabaf4daf25395a8b.csv
Result Comment:	Added qualifier code: none. RTI Sample: 2303261-003
Provider:	USGS
EPA Region:	9

007N010W18R002S (Continued) **1027308187**

Project File URL:	Not reported
QAPP Approval Agency Name:	Not reported
QAPP Approved:	No
Analytical Method:	PFAS SPE/LC/MS/MS SGS FL EPA537M
HUC:	18090206
Count:	1
Activity Media Subdivision Name:	Not reported
CAS Number:	27619-97-2
Project Name:	-
State (Other):	Not reported
Year:	2023
Name:	007N010W18R002S
Address:	Not reported
City,State,Zip:	CA
Latitude:	34.693475
Longitude:	-117.97192778
Organization:	U.S. Geological Survey
Environmental Media Name:	Water
Activity Identifier:	967ee821-75f1-4e4e-84b5-72cf898f7090
Activity Type Code:	Sample - Routine, regular
Analysis Start Date:	44999
Project Identifier:	09U3SGS00
Monitoring Location Identifier:	USGS-344138117581901
Result Detection:	Not Detected
PFAS Chemical Name:	4,8-dioxa-3H-perfluorononanoate
Result Measure Value (ppt):	-
Result Measure Value:	-
Result Unit of Measure:	-
Detection/Quantitation Limit Type:	Censoring Level
Detection/Quantitation Measure Value:	7.1
Detection/Quantitation Unit of Measure:	ng/L
Laboratory Accreditation Indicator:	Not reported
Fish Species:	Not reported
Activity Comment:	Generated activity from observation import file file4f8c67873ce_bd7c983e5b2d480cabaf4daf25395a8b.csv
Result Comment:	Added qualifier code: none. RTI Sample: 2303261-003
Provider:	USGS
EPA Region:	9
Project File URL:	Not reported
QAPP Approval Agency Name:	Not reported
QAPP Approved:	No
Analytical Method:	PFAS SPE/LC/MS/MS SGS FL EPA537M
HUC:	18090206
Count:	1
Activity Media Subdivision Name:	Not reported
CAS Number:	-
Project Name:	-
State (Other):	Not reported
Year:	2023
Name:	007N010W18R002S
Address:	Not reported
City,State,Zip:	CA
Latitude:	34.693475
Longitude:	-117.97192778
Organization:	U.S. Geological Survey

007N010W18R002S (Continued) **1027308187**

Environmental Media Name:	Water
Activity Identifier:	967ee821-75f1-4e4e-84b5-72cf898f7090
Activity Type Code:	Sample - Routine, regular
Analysis Start Date:	44999
Project Identifier:	09U3SGS00
Monitoring Location Identifier:	USGS-344138117581901
Result Detection:	Not Detected
PFAS Chemical Name:	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonate
Result Measure Value (ppt):	-
Result Measure Value:	-
Result Unit of Measure:	-
Detection/Quantitation Limit Type:	Censoring Level
Detection/Quantitation Measure Value:	7.1
Detection/Quantitation Unit of Measure:	ng/L
Laboratory Accreditation Indicator:	Not reported
Fish Species:	Not reported
Activity Comment:	Generated activity from observation import file file4f8c67873ce_bd7c983e5b2d480cabaf4daf25395a8b.csv
Result Comment:	Added qualifier code: none. RTI Sample: 2303261-003
Provider:	USGS
EPA Region:	9
Project File URL:	Not reported
QAPP Approval Agency Name:	Not reported
QAPP Approved:	No
Analytical Method:	PFAS SPE/LC/MS/MS SGS FL EPA537M
HUC:	18090206
Count:	1
Activity Media Subdivision Name:	Not reported
CAS Number:	756426-58-1
Project Name:	-
State (Other):	Not reported
Year:	2023
Name:	007N010W18R002S
Address:	Not reported
City,State,Zip:	CA
Latitude:	34.693475
Longitude:	-117.97192778
Organization:	U.S. Geological Survey
Environmental Media Name:	Water
Activity Identifier:	967ee821-75f1-4e4e-84b5-72cf898f7090
Activity Type Code:	Sample - Routine, regular
Analysis Start Date:	44999
Project Identifier:	09U3SGS00
Monitoring Location Identifier:	USGS-344138117581901
Result Detection:	Not Detected
PFAS Chemical Name:	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonate
Result Measure Value (ppt):	-
Result Measure Value:	-
Result Unit of Measure:	-
Detection/Quantitation Limit Type:	Censoring Level
Detection/Quantitation Measure Value:	7.1
Detection/Quantitation Unit of Measure:	ng/L
Laboratory Accreditation Indicator:	Not reported
Fish Species:	Not reported
Activity Comment:	Generated activity from observation import file file4f8c67873ce_bd7c983e5b2d480cabaf4daf25395a8b.csv

007N010W18R002S (Continued) **1027308187**

Result Comment:	Added qualifier code: none. RTI Sample: 2303261-003
Provider:	USGS
EPA Region:	9
Project File URL:	Not reported
QAPP Approval Agency Name:	Not reported
QAPP Approved:	No
Analytical Method:	PFAS SPE/LC/MS/MS SGS FL EPA537M
HUC:	18090206
Count:	1
Activity Media Subdivision Name:	Not reported
CAS Number:	-
Project Name:	-
State (Other):	Not reported
Year:	2023
Name:	007N010W18R002S
Address:	Not reported
City,State,Zip:	CA
Latitude:	34.693475
Longitude:	-117.97192778
Organization:	U.S. Geological Survey
Environmental Media Name:	Water
Activity Identifier:	967ee821-75f1-4e4e-84b5-72cf898f7090
Activity Type Code:	Sample - Routine, regular
Analysis Start Date:	44999
Project Identifier:	09U3SGS00
Monitoring Location Identifier:	USGS-344138117581901
Result Detection:	Not Detected
PFAS Chemical Name:	Fluorotelomer sulfonate 4:2
Result Measure Value (ppt):	-
Result Measure Value:	-
Result Unit of Measure:	-
Detection/Quantitation Limit Type:	Censoring Level
Detection/Quantitation Measure Value:	7.1
Detection/Quantitation Unit of Measure:	ng/L
Laboratory Accreditation Indicator:	Not reported
Fish Species:	Not reported
Activity Comment:	Generated activity from observation import file file4f8c67873ce_bd7c983e5b2d480cabaf4daf25395a8b.csv
Result Comment:	Added qualifier code: none. RTI Sample: 2303261-003
Provider:	USGS
EPA Region:	9
Project File URL:	Not reported
QAPP Approval Agency Name:	Not reported
QAPP Approved:	No
Analytical Method:	PFAS SPE/LC/MS/MS SGS FL EPA537M
HUC:	18090206
Count:	1
Activity Media Subdivision Name:	Not reported
CAS Number:	757124-72-4
Project Name:	-
State (Other):	Not reported
Year:	2023
Name:	007N010W18R002S
Address:	Not reported
City,State,Zip:	CA

007N010W18R002S (Continued) **1027308187**

Latitude:	34.693475
Longitude:	-117.97192778
Organization:	U.S. Geological Survey
Environmental Media Name:	Water
Activity Identifier:	967ee821-75f1-4e4e-84b5-72cf898f7090
Activity Type Code:	Sample - Routine, regular
Analysis Start Date:	44999
Project Identifier:	09U3SGS00
Monitoring Location Identifier:	USGS-344138117581901
Result Detection:	Not Detected
PFAS Chemical Name:	Fluorotelomer sulfonate 8:2
Result Measure Value (ppt):	-
Result Measure Value:	-
Result Unit of Measure:	-
Detection/Quantitation Limit Type:	Censoring Level
Detection/Quantitation Measure Value:	7.1
Detection/Quantitation Unit of Measure:	ng/L
Laboratory Accreditation Indicator:	Not reported
Fish Species:	Not reported
Activity Comment:	Generated activity from observation import file file4f8c67873ce_bd7c983e5b2d480cabaf4daf25395a8b.csv
Result Comment:	Added qualifier code: none. RTI Sample: 2303261-003
Provider:	USGS
EPA Region:	9
Project File URL:	Not reported
QAPP Approval Agency Name:	Not reported
QAPP Approved:	No
Analytical Method:	PFAS SPE/LC/MS/MS SGS FL EPA537M
HUC:	18090206
Count:	1
Activity Media Subdivision Name:	Not reported
CAS Number:	39108-34-4
Project Name:	-
State (Other):	Not reported

Year:	2023
Name:	007N010W18R002S
Address:	Not reported
City,State,Zip:	CA
Latitude:	34.693475
Longitude:	-117.97192778
Organization:	U.S. Geological Survey
Environmental Media Name:	Water
Activity Identifier:	967ee821-75f1-4e4e-84b5-72cf898f7090
Activity Type Code:	Sample - Routine, regular
Analysis Start Date:	44999
Project Identifier:	09U3SGS00
Monitoring Location Identifier:	USGS-344138117581901
Result Detection:	Not Detected
PFAS Chemical Name:	N-Ethylperfluorooctanesulfonamidoacetate
Result Measure Value (ppt):	-
Result Measure Value:	-
Result Unit of Measure:	-
Detection/Quantitation Limit Type:	Censoring Level
Detection/Quantitation Measure Value:	3.6
Detection/Quantitation Unit of Measure:	ng/L
Laboratory Accreditation Indicator:	Not reported

007N010W18R002S (Continued) **1027308187**

Fish Species:	Not reported
Activity Comment:	Generated activity from observation import file file4f8c67873ce_bd7c983e5b2d480cabaf4daf25395a8b.csv
Result Comment:	Added qualifier code: none. RTI Sample: 2303261-003
Provider:	USGS
EPA Region:	9
Project File URL:	Not reported
QAPP Approval Agency Name:	Not reported
QAPP Approved:	No
Analytical Method:	PFAS SPE/LC/MS/MS SGS FL EPA537M
HUC:	18090206
Count:	1
Activity Media Subdivision Name:	Not reported
CAS Number:	2991-50-6
Project Name:	-
State (Other):	Not reported
Year:	2023
Name:	007N010W18R002S
Address:	Not reported
City,State,Zip:	CA
Latitude:	34.693475
Longitude:	-117.97192778
Organization:	U.S. Geological Survey
Environmental Media Name:	Water
Activity Identifier:	967ee821-75f1-4e4e-84b5-72cf898f7090
Activity Type Code:	Sample - Routine, regular
Analysis Start Date:	44999
Project Identifier:	09U3SGS00
Monitoring Location Identifier:	USGS-344138117581901
Result Detection:	Not Detected
PFAS Chemical Name:	N-Methylperfluorooctanesulfonamidoacetate
Result Measure Value (ppt):	-
Result Measure Value:	-
Result Unit of Measure:	-
Detection/Quantitation Limit Type:	Censoring Level
Detection/Quantitation Measure Value:	3.6
Detection/Quantitation Unit of Measure:	ng/L
Laboratory Accreditation Indicator:	Not reported
Fish Species:	Not reported
Activity Comment:	Generated activity from observation import file file4f8c67873ce_bd7c983e5b2d480cabaf4daf25395a8b.csv
Result Comment:	Added qualifier code: none. RTI Sample: 2303261-003
Provider:	USGS
EPA Region:	9
Project File URL:	Not reported
QAPP Approval Agency Name:	Not reported
QAPP Approved:	No
Analytical Method:	PFAS SPE/LC/MS/MS SGS FL EPA537M
HUC:	18090206
Count:	1
Activity Media Subdivision Name:	Not reported
CAS Number:	2355-31-9
Project Name:	-
State (Other):	Not reported
Year:	2023

007N010W18R002S (Continued) **1027308187**

Name:	007N010W18R002S
Address:	Not reported
City,State,Zip:	CA
Latitude:	34.693475
Longitude:	-117.97192778
Organization:	U.S. Geological Survey
Environmental Media Name:	Water
Activity Identifier:	967ee821-75f1-4e4e-84b5-72cf898f7090
Activity Type Code:	Sample - Routine, regular
Analysis Start Date:	44999
Project Identifier:	09U3SGS00
Monitoring Location Identifier:	USGS-344138117581901
Result Detection:	Not Detected
PFAS Chemical Name:	Perfluoro(2-propoxypropanoate)
Result Measure Value (ppt):	-
Result Measure Value:	-
Result Unit of Measure:	-
Detection/Quantitation Limit Type:	Censoring Level
Detection/Quantitation Measure Value:	3.6
Detection/Quantitation Unit of Measure:	ng/L
Laboratory Accreditation Indicator:	Not reported
Fish Species:	Not reported
Activity Comment:	Generated activity from observation import file file4f8c67873ce_bd7c983e5b2d480cabaf4daf25395a8b.csv
Result Comment:	Added qualifier code: none. RTI Sample: 2303261-003
Provider:	USGS
EPA Region:	9
Project File URL:	Not reported
QAPP Approval Agency Name:	Not reported
QAPP Approved:	No
Analytical Method:	PFAS SPE/LC/MS/MS SGS FL EPA537M
HUC:	18090206
Count:	1
Activity Media Subdivision Name:	Not reported
CAS Number:	122499-17-6
Project Name:	-
State (Other):	Not reported
Year:	2023
Name:	007N010W18R002S
Address:	Not reported
City,State,Zip:	CA
Latitude:	34.693475
Longitude:	-117.97192778
Organization:	U.S. Geological Survey
Environmental Media Name:	Water
Activity Identifier:	967ee821-75f1-4e4e-84b5-72cf898f7090
Activity Type Code:	Sample - Routine, regular
Analysis Start Date:	44999
Project Identifier:	09U3SGS00
Monitoring Location Identifier:	USGS-344138117581901
Result Detection:	Not Detected
PFAS Chemical Name:	Perfluorobutanesulfonate
Result Measure Value (ppt):	-
Result Measure Value:	-
Result Unit of Measure:	-
Detection/Quantitation Limit Type:	Censoring Level

007N010W18R002S (Continued) **1027308187**

Detection/Quantitation Measure Value:	1.8
Detection/Quantitation Unit of Measure:	ng/L
Laboratory Accreditation Indicator:	Not reported
Fish Species:	Not reported
Activity Comment:	Generated activity from observation import file file4f8c67873ce_bd7c983e5b2d480cabaf4daf25395a8b.csv
Result Comment:	Added qualifier code: none. RTI Sample: 2303261-003
Provider:	USGS
EPA Region:	9
Project File URL:	Not reported
QAPP Approval Agency Name:	Not reported
QAPP Approved:	No
Analytical Method:	PFAS SPE/LC/MS/MS SGS FL EPA537M
HUC:	18090206
Count:	1
Activity Media Subdivision Name:	Not reported
CAS Number:	45187-15-3
Project Name:	-
State (Other):	Not reported
Year:	2023
Name:	007N010W18R002S
Address:	Not reported
City,State,Zip:	CA
Latitude:	34.693475
Longitude:	-117.97192778
Organization:	U.S. Geological Survey
Environmental Media Name:	Water
Activity Identifier:	967ee821-75f1-4e4e-84b5-72cf898f7090
Activity Type Code:	Sample - Routine, regular
Analysis Start Date:	44999
Project Identifier:	09U3SGS00
Monitoring Location Identifier:	USGS-344138117581901
Result Detection:	Not Detected
PFAS Chemical Name:	Perfluorobutanoate
Result Measure Value (ppt):	-
Result Measure Value:	-
Result Unit of Measure:	-
Detection/Quantitation Limit Type:	Censoring Level
Detection/Quantitation Measure Value:	3.6
Detection/Quantitation Unit of Measure:	ng/L
Laboratory Accreditation Indicator:	Not reported
Fish Species:	Not reported
Activity Comment:	Generated activity from observation import file file4f8c67873ce_bd7c983e5b2d480cabaf4daf25395a8b.csv
Result Comment:	Added qualifier code: none. RTI Sample: 2303261-003
Provider:	USGS
EPA Region:	9
Project File URL:	Not reported
QAPP Approval Agency Name:	Not reported
QAPP Approved:	No
Analytical Method:	PFAS SPE/LC/MS/MS SGS FL EPA537M
HUC:	18090206
Count:	1
Activity Media Subdivision Name:	Not reported
CAS Number:	45048-62-2
Project Name:	-

007N010W18R002S (Continued) **1027308187**

State (Other):	Not reported
Year:	2023
Name:	007N010W18R002S
Address:	Not reported
City,State,Zip:	CA
Latitude:	34.693475
Longitude:	-117.97192778
Organization:	U.S. Geological Survey
Environmental Media Name:	Water
Activity Identifier:	967ee821-75f1-4e4e-84b5-72cf898f7090
Activity Type Code:	Sample - Routine, regular
Analysis Start Date:	44999
Project Identifier:	09U3SGS00
Monitoring Location Identifier:	USGS-344138117581901
Result Detection:	Not Detected
PFAS Chemical Name:	Perfluorodecanesulfonate
Result Measure Value (ppt):	-
Result Measure Value:	-
Result Unit of Measure:	-
Detection/Quantitation Limit Type:	Censoring Level
Detection/Quantitation Measure Value:	1.8
Detection/Quantitation Unit of Measure:	ng/L
Laboratory Accreditation Indicator:	Not reported
Fish Species:	Not reported
Activity Comment:	Generated activity from observation import file file4f8c67873ce_bd7c983e5b2d480cabaf4daf25395a8b.csv
Result Comment:	Added qualifier code: none. RTI Sample: 2303261-003
Provider:	USGS
EPA Region:	9
Project File URL:	Not reported
QAPP Approval Agency Name:	Not reported
QAPP Approved:	No
Analytical Method:	PFAS SPE/LC/MS/MS SGS FL EPA537M
HUC:	18090206
Count:	1
Activity Media Subdivision Name:	Not reported
CAS Number:	126105-34-8
Project Name:	-
State (Other):	Not reported
Year:	2023
Name:	007N010W18R002S
Address:	Not reported
City,State,Zip:	CA
Latitude:	34.693475
Longitude:	-117.97192778
Organization:	U.S. Geological Survey
Environmental Media Name:	Water
Activity Identifier:	967ee821-75f1-4e4e-84b5-72cf898f7090
Activity Type Code:	Sample - Routine, regular
Analysis Start Date:	44999
Project Identifier:	09U3SGS00
Monitoring Location Identifier:	USGS-344138117581901
Result Detection:	Not Detected
PFAS Chemical Name:	Perfluorodecanoate
Result Measure Value (ppt):	-

007N010W18R002S (Continued) **1027308187**

Result Measure Value:	-
Result Unit of Measure:	-
Detection/Quantitation Limit Type:	Censoring Level
Detection/Quantitation Measure Value:	1.8
Detection/Quantitation Unit of Measure:	ng/L
Laboratory Accreditation Indicator:	Not reported
Fish Species:	Not reported
Activity Comment:	Generated activity from observation import file file4f8c67873ce_bd7c983e5b2d480cabaf4daf25395a8b.csv
Result Comment:	Added qualifier code: none. RTI Sample: 2303261-003
Provider:	USGS
EPA Region:	9
Project File URL:	Not reported
QAPP Approval Agency Name:	Not reported
QAPP Approved:	No
Analytical Method:	PFAS SPE/LC/MS/MS SGS FL EPA537M
HUC:	18090206
Count:	1
Activity Media Subdivision Name:	Not reported
CAS Number:	73829-36-4
Project Name:	-
State (Other):	Not reported
Year:	2023
Name:	007N010W18R002S
Address:	Not reported
City,State,Zip:	CA
Latitude:	34.693475
Longitude:	-117.97192778
Organization:	U.S. Geological Survey
Environmental Media Name:	Water
Activity Identifier:	967ee821-75f1-4e4e-84b5-72cf898f7090
Activity Type Code:	Sample - Routine, regular
Analysis Start Date:	44999
Project Identifier:	09U3SGS00
Monitoring Location Identifier:	USGS-344138117581901
Result Detection:	Not Detected
PFAS Chemical Name:	Perfluorododecanoate
Result Measure Value (ppt):	-
Result Measure Value:	-
Result Unit of Measure:	-
Detection/Quantitation Limit Type:	Censoring Level
Detection/Quantitation Measure Value:	1.8
Detection/Quantitation Unit of Measure:	ng/L
Laboratory Accreditation Indicator:	Not reported
Fish Species:	Not reported
Activity Comment:	Generated activity from observation import file file4f8c67873ce_bd7c983e5b2d480cabaf4daf25395a8b.csv
Result Comment:	Added qualifier code: none. RTI Sample: 2303261-003
Provider:	USGS
EPA Region:	9
Project File URL:	Not reported
QAPP Approval Agency Name:	Not reported
QAPP Approved:	No
Analytical Method:	PFAS SPE/LC/MS/MS SGS FL EPA537M
HUC:	18090206
Count:	1

007N010W18R002S (Continued) **1027308187**

Activity Media Subdivision Name:	Not reported
CAS Number:	171978-95-3
Project Name:	-
State (Other):	Not reported
Year:	2023
Name:	007N010W18R002S
Address:	Not reported
City,State,Zip:	CA
Latitude:	34.693475
Longitude:	-117.97192778
Organization:	U.S. Geological Survey
Environmental Media Name:	Water
Activity Identifier:	967ee821-75f1-4e4e-84b5-72cf898f7090
Activity Type Code:	Sample - Routine, regular
Analysis Start Date:	44999
Project Identifier:	09U3SGS00
Monitoring Location Identifier:	USGS-344138117581901
Result Detection:	Not Detected
PFAS Chemical Name:	Perfluoroheptanesulfonate
Result Measure Value (ppt):	-
Result Measure Value:	-
Result Unit of Measure:	-
Detection/Quantitation Limit Type:	Censoring Level
Detection/Quantitation Measure Value:	1.8
Detection/Quantitation Unit of Measure:	ng/L
Laboratory Accreditation Indicator:	Not reported
Fish Species:	Not reported
Activity Comment:	Generated activity from observation import file file4f8c67873ce_bd7c983e5b2d480cabaf4daf25395a8b.csv
Result Comment:	Added qualifier code: none. RTI Sample: 2303261-003
Provider:	USGS
EPA Region:	9
Project File URL:	Not reported
QAPP Approval Agency Name:	Not reported
QAPP Approved:	No
Analytical Method:	PFAS SPE/LC/MS/MS SGS FL EPA537M
HUC:	18090206
Count:	1
Activity Media Subdivision Name:	Not reported
CAS Number:	146689-46-5
Project Name:	-
State (Other):	Not reported
Year:	2023
Name:	007N010W18R002S
Address:	Not reported
City,State,Zip:	CA
Latitude:	34.693475
Longitude:	-117.97192778
Organization:	U.S. Geological Survey
Environmental Media Name:	Water
Activity Identifier:	967ee821-75f1-4e4e-84b5-72cf898f7090
Activity Type Code:	Sample - Routine, regular
Analysis Start Date:	44999
Project Identifier:	09U3SGS00
Monitoring Location Identifier:	USGS-344138117581901

007N010W18R002S (Continued) **1027308187**

Result Detection:	Not Detected
PFAS Chemical Name:	Perfluoroheptanoate
Result Measure Value (ppt):	-
Result Measure Value:	-
Result Unit of Measure:	-
Detection/Quantitation Limit Type:	Censoring Level
Detection/Quantitation Measure Value:	1.8
Detection/Quantitation Unit of Measure:	ng/L
Laboratory Accreditation Indicator:	Not reported
Fish Species:	Not reported
Activity Comment:	Generated activity from observation import file file4f8c67873ce_bd7c983e5b2d480cabaf4daf25395a8b.csv
Result Comment:	Added qualifier code: none. RTI Sample: 2303261-003
Provider:	USGS
EPA Region:	9
Project File URL:	Not reported
QAPP Approval Agency Name:	Not reported
QAPP Approved:	No
Analytical Method:	PFAS SPE/LC/MS/MS SGS FL EPA537M
HUC:	18090206
Count:	1
Activity Media Subdivision Name:	Not reported
CAS Number:	120885-29-2
Project Name:	-
State (Other):	Not reported
Year:	2023
Name:	007N010W18R002S
Address:	Not reported
City,State,Zip:	CA
Latitude:	34.693475
Longitude:	-117.97192778
Organization:	U.S. Geological Survey
Environmental Media Name:	Water
Activity Identifier:	967ee821-75f1-4e4e-84b5-72cf898f7090
Activity Type Code:	Sample - Routine, regular
Analysis Start Date:	44999
Project Identifier:	09U3SGS00
Monitoring Location Identifier:	USGS-344138117581901
Result Detection:	Not Detected
PFAS Chemical Name:	Perfluorohexanesulfonate
Result Measure Value (ppt):	-
Result Measure Value:	-
Result Unit of Measure:	-
Detection/Quantitation Limit Type:	Censoring Level
Detection/Quantitation Measure Value:	1.8
Detection/Quantitation Unit of Measure:	ng/L
Laboratory Accreditation Indicator:	Not reported
Fish Species:	Not reported
Activity Comment:	Generated activity from observation import file file4f8c67873ce_bd7c983e5b2d480cabaf4daf25395a8b.csv
Result Comment:	Added qualifier code: none. RTI Sample: 2303261-003
Provider:	USGS
EPA Region:	9
Project File URL:	Not reported
QAPP Approval Agency Name:	Not reported
QAPP Approved:	No

007N010W18R002S (Continued) **1027308187**

Analytical Method:	PFAS SPE/LC/MS/MS SGS FL EPA537M
HUC:	18090206
Count:	1
Activity Media Subdivision Name:	Not reported
CAS Number:	108427-53-8
Project Name:	-
State (Other):	Not reported
Year:	2023
Name:	007N010W18R002S
Address:	Not reported
City,State,Zip:	CA
Latitude:	34.693475
Longitude:	-117.97192778
Organization:	U.S. Geological Survey
Environmental Media Name:	Water
Activity Identifier:	967ee821-75f1-4e4e-84b5-72cf898f7090
Activity Type Code:	Sample - Routine, regular
Analysis Start Date:	44999
Project Identifier:	09U3SGS00
Monitoring Location Identifier:	USGS-344138117581901
Result Detection:	Not Detected
PFAS Chemical Name:	Perfluorohexanoate
Result Measure Value (ppt):	-
Result Measure Value:	-
Result Unit of Measure:	-
Detection/Quantitation Limit Type:	Censoring Level
Detection/Quantitation Measure Value:	1.8
Detection/Quantitation Unit of Measure:	ng/L
Laboratory Accreditation Indicator:	Not reported
Fish Species:	Not reported
Activity Comment:	Generated activity from observation import file file4f8c67873ce_bd7c983e5b2d480cabaf4daf25395a8b.csv
Result Comment:	Added qualifier code: none. RTI Sample: 2303261-003
Provider:	USGS
EPA Region:	9
Project File URL:	Not reported
QAPP Approval Agency Name:	Not reported
QAPP Approved:	No
Analytical Method:	PFAS SPE/LC/MS/MS SGS FL EPA537M
HUC:	18090206
Count:	1
Activity Media Subdivision Name:	Not reported
CAS Number:	92612-52-7
Project Name:	-
State (Other):	Not reported
Year:	2023
Name:	007N010W18R002S
Address:	Not reported
City,State,Zip:	CA
Latitude:	34.693475
Longitude:	-117.97192778
Organization:	U.S. Geological Survey
Environmental Media Name:	Water
Activity Identifier:	967ee821-75f1-4e4e-84b5-72cf898f7090
Activity Type Code:	Sample - Routine, regular

007N010W18R002S (Continued) **1027308187**

Analysis Start Date:	44999
Project Identifier:	09U3SGS00
Monitoring Location Identifier:	USGS-344138117581901
Result Detection:	Not Detected
PFAS Chemical Name:	Perfluorononanesulfonate
Result Measure Value (ppt):	-
Result Measure Value:	-
Result Unit of Measure:	-
Detection/Quantitation Limit Type:	Censoring Level
Detection/Quantitation Measure Value:	1.8
Detection/Quantitation Unit of Measure:	ng/L
Laboratory Accreditation Indicator:	Not reported
Fish Species:	Not reported
Activity Comment:	Generated activity from observation import file file4f8c67873ce_bd7c983e5b2d480cabaf4daf25395a8b.csv
Result Comment:	Added qualifier code: none. RTI Sample: 2303261-003
Provider:	USGS
EPA Region:	9
Project File URL:	Not reported
QAPP Approval Agency Name:	Not reported
QAPP Approved:	No
Analytical Method:	PFAS SPE/LC/MS/MS SGS FL EPA537M
HUC:	18090206
Count:	1
Activity Media Subdivision Name:	Not reported
CAS Number:	474511-07-4
Project Name:	-
State (Other):	Not reported

Year:	2023
Name:	007N010W18R002S
Address:	Not reported
City,State,Zip:	CA
Latitude:	34.693475
Longitude:	-117.97192778
Organization:	U.S. Geological Survey
Environmental Media Name:	Water
Activity Identifier:	967ee821-75f1-4e4e-84b5-72cf898f7090
Activity Type Code:	Sample - Routine, regular
Analysis Start Date:	44999
Project Identifier:	09U3SGS00
Monitoring Location Identifier:	USGS-344138117581901
Result Detection:	Not Detected
PFAS Chemical Name:	Perfluorononanoate
Result Measure Value (ppt):	-
Result Measure Value:	-
Result Unit of Measure:	-
Detection/Quantitation Limit Type:	Censoring Level
Detection/Quantitation Measure Value:	1.8
Detection/Quantitation Unit of Measure:	ng/L
Laboratory Accreditation Indicator:	Not reported
Fish Species:	Not reported
Activity Comment:	Generated activity from observation import file file4f8c67873ce_bd7c983e5b2d480cabaf4daf25395a8b.csv
Result Comment:	Added qualifier code: none. RTI Sample: 2303261-003
Provider:	USGS
EPA Region:	9

007N010W18R002S (Continued) **1027308187**

Project File URL:	Not reported
QAPP Approval Agency Name:	Not reported
QAPP Approved:	No
Analytical Method:	PFAS SPE/LC/MS/MS SGS FL EPA537M
HUC:	18090206
Count:	1
Activity Media Subdivision Name:	Not reported
CAS Number:	72007-68-2
Project Name:	-
State (Other):	Not reported
Year:	2023
Name:	007N010W18R002S
Address:	Not reported
City,State,Zip:	CA
Latitude:	34.693475
Longitude:	-117.97192778
Organization:	U.S. Geological Survey
Environmental Media Name:	Water
Activity Identifier:	967ee821-75f1-4e4e-84b5-72cf898f7090
Activity Type Code:	Sample - Routine, regular
Analysis Start Date:	44999
Project Identifier:	09U3SGS00
Monitoring Location Identifier:	USGS-344138117581901
Result Detection:	Not Detected
PFAS Chemical Name:	Perfluorooctanesulfonamide
Result Measure Value (ppt):	-
Result Measure Value:	-
Result Unit of Measure:	-
Detection/Quantitation Limit Type:	Censoring Level
Detection/Quantitation Measure Value:	3.6
Detection/Quantitation Unit of Measure:	ng/L
Laboratory Accreditation Indicator:	Not reported
Fish Species:	Not reported
Activity Comment:	Generated activity from observation import file file4f8c67873ce_bd7c983e5b2d480cabaf4daf25395a8b.csv
Result Comment:	Added qualifier code: none. RTI Sample: 2303261-003
Provider:	USGS
EPA Region:	9
Project File URL:	Not reported
QAPP Approval Agency Name:	Not reported
QAPP Approved:	No
Analytical Method:	PFAS SPE/LC/MS/MS SGS FL EPA537M
HUC:	18090206
Count:	1
Activity Media Subdivision Name:	Not reported
CAS Number:	754-91-6
Project Name:	-
State (Other):	Not reported
Year:	2023
Name:	007N010W18R002S
Address:	Not reported
City,State,Zip:	CA
Latitude:	34.693475
Longitude:	-117.97192778
Organization:	U.S. Geological Survey

007N010W18R002S (Continued) **1027308187**

Environmental Media Name:	Water
Activity Identifier:	967ee821-75f1-4e4e-84b5-72cf898f7090
Activity Type Code:	Sample - Routine, regular
Analysis Start Date:	44999
Project Identifier:	09U3SGS00
Monitoring Location Identifier:	USGS-344138117581901
Result Detection:	Not Detected
PFAS Chemical Name:	Perfluorooctanesulfonate
Result Measure Value (ppt):	-
Result Measure Value:	-
Result Unit of Measure:	-
Detection/Quantitation Limit Type:	Censoring Level
Detection/Quantitation Measure Value:	1.8
Detection/Quantitation Unit of Measure:	ng/L
Laboratory Accreditation Indicator:	Not reported
Fish Species:	Not reported
Activity Comment:	Generated activity from observation import file file4f8c67873ce_bd7c983e5b2d480cabaf4daf25395a8b.csv
Result Comment:	Added qualifier code: none. RTI Sample: 2303261-003
Provider:	USGS
EPA Region:	9
Project File URL:	Not reported
QAPP Approval Agency Name:	Not reported
QAPP Approved:	No
Analytical Method:	PFAS SPE/LC/MS/MS SGS FL EPA537M
HUC:	18090206
Count:	1
Activity Media Subdivision Name:	Not reported
CAS Number:	45298-90-6
Project Name:	-
State (Other):	Not reported
Year:	2023
Name:	007N010W18R002S
Address:	Not reported
City,State,Zip:	CA
Latitude:	34.693475
Longitude:	-117.97192778
Organization:	U.S. Geological Survey
Environmental Media Name:	Water
Activity Identifier:	967ee821-75f1-4e4e-84b5-72cf898f7090
Activity Type Code:	Sample - Routine, regular
Analysis Start Date:	44999
Project Identifier:	09U3SGS00
Monitoring Location Identifier:	USGS-344138117581901
Result Detection:	Not Detected
PFAS Chemical Name:	Perfluoropentanesulfonate
Result Measure Value (ppt):	-
Result Measure Value:	-
Result Unit of Measure:	-
Detection/Quantitation Limit Type:	Censoring Level
Detection/Quantitation Measure Value:	1.8
Detection/Quantitation Unit of Measure:	ng/L
Laboratory Accreditation Indicator:	Not reported
Fish Species:	Not reported
Activity Comment:	Generated activity from observation import file file4f8c67873ce_bd7c983e5b2d480cabaf4daf25395a8b.csv

007N010W18R002S (Continued) **1027308187**

Result Comment:	Added qualifier code: none. RTI Sample: 2303261-003
Provider:	USGS
EPA Region:	9
Project File URL:	Not reported
QAPP Approval Agency Name:	Not reported
QAPP Approved:	No
Analytical Method:	PFAS SPE/LC/MS/MS SGS FL EPA537M
HUC:	18090206
Count:	1
Activity Media Subdivision Name:	Not reported
CAS Number:	175905-36-9
Project Name:	-
State (Other):	Not reported
Year:	2023
Name:	007N010W18R002S
Address:	Not reported
City,State,Zip:	CA
Latitude:	34.693475
Longitude:	-117.97192778
Organization:	U.S. Geological Survey
Environmental Media Name:	Water
Activity Identifier:	967ee821-75f1-4e4e-84b5-72cf898f7090
Activity Type Code:	Sample - Routine, regular
Analysis Start Date:	44999
Project Identifier:	09U3SGS00
Monitoring Location Identifier:	USGS-344138117581901
Result Detection:	Not Detected
PFAS Chemical Name:	Perfluoropentanoate
Result Measure Value (ppt):	-
Result Measure Value:	-
Result Unit of Measure:	-
Detection/Quantitation Limit Type:	Censoring Level
Detection/Quantitation Measure Value:	1.8
Detection/Quantitation Unit of Measure:	ng/L
Laboratory Accreditation Indicator:	Not reported
Fish Species:	Not reported
Activity Comment:	Generated activity from observation import file file4f8c67873ce_bd7c983e5b2d480cabaf4daf25395a8b.csv
Result Comment:	Added qualifier code: none. RTI Sample: 2303261-003
Provider:	USGS
EPA Region:	9
Project File URL:	Not reported
QAPP Approval Agency Name:	Not reported
QAPP Approved:	No
Analytical Method:	PFAS SPE/LC/MS/MS SGS FL EPA537M
HUC:	18090206
Count:	1
Activity Media Subdivision Name:	Not reported
CAS Number:	45167-47-3
Project Name:	-
State (Other):	Not reported
Year:	2023
Name:	007N010W18R002S
Address:	Not reported
City,State,Zip:	CA

007N010W18R002S (Continued) **1027308187**

Latitude:	34.693475
Longitude:	-117.97192778
Organization:	U.S. Geological Survey
Environmental Media Name:	Water
Activity Identifier:	967ee821-75f1-4e4e-84b5-72cf898f7090
Activity Type Code:	Sample - Routine, regular
Analysis Start Date:	44999
Project Identifier:	09U3SGS00
Monitoring Location Identifier:	USGS-344138117581901
Result Detection:	Not Detected
PFAS Chemical Name:	Perfluorotetradecanoate
Result Measure Value (ppt):	-
Result Measure Value:	-
Result Unit of Measure:	-
Detection/Quantitation Limit Type:	Censoring Level
Detection/Quantitation Measure Value:	1.8
Detection/Quantitation Unit of Measure:	ng/L
Laboratory Accreditation Indicator:	Not reported
Fish Species:	Not reported
Activity Comment:	Generated activity from observation import file file4f8c67873ce_bd7c983e5b2d480cabaf4daf25395a8b.csv
Result Comment:	Added qualifier code: none. RTI Sample: 2303261-003
Provider:	USGS
EPA Region:	9
Project File URL:	Not reported
QAPP Approval Agency Name:	Not reported
QAPP Approved:	No
Analytical Method:	PFAS SPE/LC/MS/MS SGS FL EPA537M
HUC:	18090206
Count:	1
Activity Media Subdivision Name:	Not reported
CAS Number:	365971-87-5
Project Name:	-
State (Other):	Not reported

Year:	2023
Name:	007N010W18R002S
Address:	Not reported
City,State,Zip:	CA
Latitude:	34.693475
Longitude:	-117.97192778
Organization:	U.S. Geological Survey
Environmental Media Name:	Water
Activity Identifier:	967ee821-75f1-4e4e-84b5-72cf898f7090
Activity Type Code:	Sample - Routine, regular
Analysis Start Date:	44999
Project Identifier:	09U3SGS00
Monitoring Location Identifier:	USGS-344138117581901
Result Detection:	Not Detected
PFAS Chemical Name:	Perfluorotridecanoate
Result Measure Value (ppt):	-
Result Measure Value:	-
Result Unit of Measure:	-
Detection/Quantitation Limit Type:	Censoring Level
Detection/Quantitation Measure Value:	1.8
Detection/Quantitation Unit of Measure:	ng/L
Laboratory Accreditation Indicator:	Not reported

007N010W18R002S (Continued) **1027308187**

Fish Species:	Not reported
Activity Comment:	Generated activity from observation import file file4f8c67873ce_bd7c983e5b2d480cabaf4daf25395a8b.csv
Result Comment:	Added qualifier code: none. RTI Sample: 2303261-003
Provider:	USGS
EPA Region:	9
Project File URL:	Not reported
QAPP Approval Agency Name:	Not reported
QAPP Approved:	No
Analytical Method:	PFAS SPE/LC/MS/MS SGS FL EPA537M
HUC:	18090206
Count:	1
Activity Media Subdivision Name:	Not reported
CAS Number:	862374-87-6
Project Name:	-
State (Other):	Not reported
Year:	2023
Name:	007N010W18R002S
Address:	Not reported
City,State,Zip:	CA
Latitude:	34.693475
Longitude:	-117.97192778
Organization:	U.S. Geological Survey
Environmental Media Name:	Water
Activity Identifier:	967ee821-75f1-4e4e-84b5-72cf898f7090
Activity Type Code:	Sample - Routine, regular
Analysis Start Date:	44999
Project Identifier:	09U3SGS00
Monitoring Location Identifier:	USGS-344138117581901
Result Detection:	Not Detected
PFAS Chemical Name:	Perfluoroundecanoate
Result Measure Value (ppt):	-
Result Measure Value:	-
Result Unit of Measure:	-
Detection/Quantitation Limit Type:	Censoring Level
Detection/Quantitation Measure Value:	1.8
Detection/Quantitation Unit of Measure:	ng/L
Laboratory Accreditation Indicator:	Not reported
Fish Species:	Not reported
Activity Comment:	Generated activity from observation import file file4f8c67873ce_bd7c983e5b2d480cabaf4daf25395a8b.csv
Result Comment:	Added qualifier code: none. RTI Sample: 2303261-003
Provider:	USGS
EPA Region:	9
Project File URL:	Not reported
QAPP Approval Agency Name:	Not reported
QAPP Approved:	No
Analytical Method:	PFAS SPE/LC/MS/MS SGS FL EPA537M
HUC:	18090206
Count:	1
Activity Media Subdivision Name:	Not reported
CAS Number:	196859-54-8
Project Name:	-
State (Other):	Not reported
Year:	2023

007N010W18R002S (Continued) **1027308187**

Name:	007N010W18R002S
Address:	Not reported
City,State,Zip:	CA
Latitude:	34.693475
Longitude:	-117.97192778
Organization:	U.S. Geological Survey
Environmental Media Name:	Water
Activity Identifier:	967ee821-75f1-4e4e-84b5-72cf898f7090
Activity Type Code:	Sample - Routine, regular
Analysis Start Date:	44999
Project Identifier:	09U3SGS00
Monitoring Location Identifier:	USGS-344138117581901
Result Detection:	Not Detected
PFAS Chemical Name:	PFOA ion
Result Measure Value (ppt):	-
Result Measure Value:	-
Result Unit of Measure:	-
Detection/Quantitation Limit Type:	Censoring Level
Detection/Quantitation Measure Value:	1.8
Detection/Quantitation Unit of Measure:	ng/L
Laboratory Accreditation Indicator:	Not reported
Fish Species:	Not reported
Activity Comment:	Generated activity from observation import file file4f8c67873ce_bd7c983e5b2d480cabaf4daf25395a8b.csv
Result Comment:	Added qualifier code: none. RTI Sample: 2303261-003
Provider:	USGS
EPA Region:	9
Project File URL:	Not reported
QAPP Approval Agency Name:	Not reported
QAPP Approved:	No
Analytical Method:	PFAS SPE/LC/MS/MS SGS FL EPA537M
HUC:	18090206
Count:	1
Activity Media Subdivision Name:	Not reported
CAS Number:	45285-51-6
Project Name:	-
State (Other):	Not reported

Count: 1 records. ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
LANCASTER	S121693668	ALADDIN CLEANERS, R.K. NATHA & D P	;LUO8,LL W AVENUE J	93535	DRYCLEANERS

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

STANDARD ENVIRONMENTAL RECORDS

Lists of Federal NPL (Superfund) sites

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 03/27/2025
Date Data Arrived at EDR: 04/01/2025
Date Made Active in Reports: 04/24/2025
Number of Days to Update: 23

Source: EPA
Telephone: N/A
Last EDR Contact: 06/02/2025
Next Scheduled EDR Contact: 07/07/2025
Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 3
Telephone 215-814-5418

EPA Region 4
Telephone 404-562-8033

EPA Region 5
Telephone 312-886-6686

EPA Region 10
Telephone 206-553-8665

EPA Region 6
Telephone: 214-655-6659

EPA Region 7
Telephone: 913-551-7247

EPA Region 8
Telephone: 303-312-6774

EPA Region 9
Telephone: 415-947-4246

Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 03/27/2025
Date Data Arrived at EDR: 04/01/2025
Date Made Active in Reports: 04/24/2025
Number of Days to Update: 23

Source: EPA
Telephone: N/A
Last EDR Contact: 06/02/2025
Next Scheduled EDR Contact: 07/07/2025
Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991
Date Data Arrived at EDR: 02/02/1994
Date Made Active in Reports: 03/30/1994
Number of Days to Update: 56

Source: EPA
Telephone: 202-564-4267
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

Lists of Federal Delisted NPL sites

Delisted NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 03/27/2025
Date Data Arrived at EDR: 04/01/2025
Date Made Active in Reports: 04/24/2025
Number of Days to Update: 23

Source: EPA
Telephone: N/A
Last EDR Contact: 06/02/2025
Next Scheduled EDR Contact: 07/07/2025
Data Release Frequency: Quarterly

Lists of Federal sites subject to CERCLA removals and CERCLA orders

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 11/20/2024
Date Data Arrived at EDR: 12/18/2024
Date Made Active in Reports: 12/20/2024
Number of Days to Update: 2

Source: Environmental Protection Agency
Telephone: 703-603-8704
Last EDR Contact: 03/27/2025
Next Scheduled EDR Contact: 07/07/2025
Data Release Frequency: Varies

SEMS: Superfund Enterprise Management System

SEMS (Superfund Enterprise Management System) tracks hazardous waste sites, potentially hazardous waste sites, and remedial activities performed in support of EPA's Superfund Program across the United States. The list was formerly know as CERCLIS, renamed to SEMS by the EPA in 2015. The list contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). This dataset also contains sites which are either proposed to or on the National Priorities List (NPL) and the sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 03/27/2025
Date Data Arrived at EDR: 04/01/2025
Date Made Active in Reports: 04/24/2025
Number of Days to Update: 23

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 06/02/2025
Next Scheduled EDR Contact: 07/21/2025
Data Release Frequency: Quarterly

Lists of Federal CERCLA sites with NFRAP

SEMS-ARCHIVE: Superfund Enterprise Management System Archive

SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list the site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. The decision does not necessarily mean that there is no hazard associated with a given site; it only means that. based upon available information, the location is not judged to be potential NPL site.

Date of Government Version: 03/27/2025
Date Data Arrived at EDR: 04/01/2025
Date Made Active in Reports: 04/24/2025
Number of Days to Update: 23

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 06/02/2025
Next Scheduled EDR Contact: 07/21/2025
Data Release Frequency: Quarterly

Lists of Federal RCRA facilities undergoing Corrective Action

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 02/17/2025
Date Data Arrived at EDR: 02/19/2025
Date Made Active in Reports: 03/06/2025
Number of Days to Update: 15

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 06/03/2025
Next Scheduled EDR Contact: 09/29/2025
Data Release Frequency: Quarterly

Lists of Federal RCRA TSD facilities

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 02/17/2025
Date Data Arrived at EDR: 02/19/2025
Date Made Active in Reports: 03/06/2025
Number of Days to Update: 15

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 06/04/2025
Next Scheduled EDR Contact: 09/29/2025
Data Release Frequency: Quarterly

Lists of Federal RCRA generators

RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 02/17/2025
Date Data Arrived at EDR: 02/19/2025
Date Made Active in Reports: 03/06/2025
Number of Days to Update: 15

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 06/04/2025
Next Scheduled EDR Contact: 09/29/2025
Data Release Frequency: Quarterly

RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 02/17/2025
Date Data Arrived at EDR: 02/19/2025
Date Made Active in Reports: 03/06/2025
Number of Days to Update: 15

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 06/04/2025
Next Scheduled EDR Contact: 09/29/2025
Data Release Frequency: Quarterly

RCRA-VSQG: RCRA - Very Small Quantity Generators (Formerly Conditionally Exempt Small Quantity Generators)

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Very small quantity generators (VSQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 02/17/2025
Date Data Arrived at EDR: 02/19/2025
Date Made Active in Reports: 03/06/2025
Number of Days to Update: 15

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 06/04/2025
Next Scheduled EDR Contact: 09/29/2025
Data Release Frequency: Quarterly

Federal institutional controls / engineering controls registries

LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 11/11/2024
Date Data Arrived at EDR: 11/25/2024
Date Made Active in Reports: 02/18/2025
Number of Days to Update: 85

Source: Department of the Navy
Telephone: 843-820-7326
Last EDR Contact: 04/30/2025
Next Scheduled EDR Contact: 08/18/2025
Data Release Frequency: Varies

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 01/29/2025
Date Data Arrived at EDR: 02/18/2025
Date Made Active in Reports: 04/29/2025
Number of Days to Update: 70

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 05/20/2025
Next Scheduled EDR Contact: 12/02/2024
Data Release Frequency: Varies

US INST CONTROLS: Institutional Controls Sites List

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 01/29/2025
Date Data Arrived at EDR: 02/18/2025
Date Made Active in Reports: 04/29/2025
Number of Days to Update: 70

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 05/20/2025
Next Scheduled EDR Contact: 09/01/2025
Data Release Frequency: Varies

Federal ERNS list

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 12/03/2024
Date Data Arrived at EDR: 12/11/2024
Date Made Active in Reports: 02/18/2025
Number of Days to Update: 69

Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Last EDR Contact: 06/12/2025
Next Scheduled EDR Contact: 09/29/2025
Data Release Frequency: Quarterly

Lists of state- and tribal (Superfund) equivalent sites

RESPONSE: State Response Sites

Identifies confirmed release sites where DTSC is involved in remediation, either in a lead or oversight capacity. These confirmed release sites are generally high-priority and high potential risk.

Date of Government Version: 01/21/2025
Date Data Arrived at EDR: 01/22/2025
Date Made Active in Reports: 04/03/2025
Number of Days to Update: 71

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 04/22/2025
Next Scheduled EDR Contact: 08/04/2025
Data Release Frequency: Quarterly

Lists of state- and tribal hazardous waste facilities

ENVIROSTOR: EnviroStor Database

The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifes sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

Date of Government Version: 01/21/2025
Date Data Arrived at EDR: 01/22/2025
Date Made Active in Reports: 04/03/2025
Number of Days to Update: 71

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 04/22/2025
Next Scheduled EDR Contact: 08/04/2025
Data Release Frequency: Quarterly

Lists of state and tribal landfills and solid waste disposal facilities

SWF/LF (SWIS): Solid Waste Information System

Active, Closed and Inactive Landfills. SWF/LF records typically contain an inve ntory of solid waste disposal facilities or landfills. These may be active or i nactive facilities or open dumps that failed to meet RCRA Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 02/03/2025
Date Data Arrived at EDR: 02/04/2025
Date Made Active in Reports: 04/18/2025
Number of Days to Update: 73

Source: Department of Resources Recycling and Recovery
Telephone: 916-341-6320
Last EDR Contact: 05/06/2025
Next Scheduled EDR Contact: 08/18/2025
Data Release Frequency: Quarterly

Lists of state and tribal leaking storage tanks

LUST REG 3: Leaking Underground Storage Tank Database
Leaking Underground Storage Tank locations. Monterey, San Benito, San Luis Obispo, Santa Barbara, Santa Cruz counties.

Date of Government Version: 05/19/2003
Date Data Arrived at EDR: 05/19/2003
Date Made Active in Reports: 06/02/2003
Number of Days to Update: 14

Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-542-4786
Last EDR Contact: 07/18/2011
Next Scheduled EDR Contact: 10/31/2011
Data Release Frequency: No Update Planned

LUST REG 4: Underground Storage Tank Leak List
Los Angeles, Ventura counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35

Source: California Regional Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6710
Last EDR Contact: 09/06/2011
Next Scheduled EDR Contact: 12/19/2011
Data Release Frequency: No Update Planned

LUST REG 5: Leaking Underground Storage Tank Database
Leaking Underground Storage Tank locations. Alameda, Alpine, Amador, Butte, Colusa, Contra Costa, Calveras, El Dorado, Fresno, Glenn, Kern, Kings, Lake, Lassen, Madera, Mariposa, Merced, Modoc, Napa, Nevada, Placer, Plumas, Sacramento, San Joaquin, Shasta, Solano, Stanislaus, Sutter, Tehama, Tulare, Tuolumne, Yolo, Yuba counties.

Date of Government Version: 07/01/2008
Date Data Arrived at EDR: 07/22/2008
Date Made Active in Reports: 07/31/2008
Number of Days to Update: 9

Source: California Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-4834
Last EDR Contact: 07/01/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: No Update Planned

LUST REG 7: Leaking Underground Storage Tank Case Listing
Leaking Underground Storage Tank locations. Imperial, Riverside, San Diego, Santa Barbara counties.

Date of Government Version: 02/26/2004
Date Data Arrived at EDR: 02/26/2004
Date Made Active in Reports: 03/24/2004
Number of Days to Update: 27

Source: California Regional Water Quality Control Board Colorado River Basin Region (7)
Telephone: 760-776-8943
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

LUST REG 8: Leaking Underground Storage Tanks
California Regional Water Quality Control Board Santa Ana Region (8). For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/14/2005
Date Data Arrived at EDR: 02/15/2005
Date Made Active in Reports: 03/28/2005
Number of Days to Update: 41

Source: California Regional Water Quality Control Board Santa Ana Region (8)
Telephone: 909-782-4496
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

LUST REG 2: Fuel Leak List
Leaking Underground Storage Tank locations. Alameda, Contra Costa, Marin, Napa, San Francisco, San Mateo, Santa Clara, Solano, Sonoma counties.

Date of Government Version: 09/30/2004
Date Data Arrived at EDR: 10/20/2004
Date Made Active in Reports: 11/19/2004
Number of Days to Update: 30

Source: California Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-622-2433
Last EDR Contact: 09/19/2011
Next Scheduled EDR Contact: 01/02/2012
Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

LUST REG 1: Active Toxic Site Investigation

Del Norte, Humboldt, Lake, Mendocino, Modoc, Siskiyou, Sonoma, Trinity counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/01/2001
Date Data Arrived at EDR: 02/28/2001
Date Made Active in Reports: 03/29/2001
Number of Days to Update: 29

Source: California Regional Water Quality Control Board North Coast (1)
Telephone: 707-570-3769
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

LUST REG 6V: Leaking Underground Storage Tank Case Listing

Leaking Underground Storage Tank locations. Inyo, Kern, Los Angeles, Mono, San Bernardino counties.

Date of Government Version: 06/07/2005
Date Data Arrived at EDR: 06/07/2005
Date Made Active in Reports: 06/29/2005
Number of Days to Update: 22

Source: California Regional Water Quality Control Board Victorville Branch Office (6)
Telephone: 760-241-7365
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

LUST REG 6L: Leaking Underground Storage Tank Case Listing

For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/09/2003
Date Data Arrived at EDR: 09/10/2003
Date Made Active in Reports: 10/07/2003
Number of Days to Update: 27

Source: California Regional Water Quality Control Board Lahontan Region (6)
Telephone: 530-542-5572
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

LUST: Leaking Underground Fuel Tank Report (GEOTRACKER)

Leaking Underground Storage Tank (LUST) Sites included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 02/24/2025
Date Data Arrived at EDR: 02/24/2025
Date Made Active in Reports: 02/26/2025
Number of Days to Update: 2

Source: State Water Resources Control Board
Telephone: see region list
Last EDR Contact: 06/02/2025
Next Scheduled EDR Contact: 09/15/2025
Data Release Frequency: Quarterly

LUST REG 9: Leaking Underground Storage Tank Report

Orange, Riverside, San Diego counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 03/01/2001
Date Data Arrived at EDR: 04/23/2001
Date Made Active in Reports: 05/21/2001
Number of Days to Update: 28

Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-637-5595
Last EDR Contact: 09/26/2011
Next Scheduled EDR Contact: 01/09/2012
Data Release Frequency: No Update Planned

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 01/07/2025
Date Data Arrived at EDR: 01/16/2025
Date Made Active in Reports: 04/07/2025
Number of Days to Update: 81

Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 04/09/2025
Next Scheduled EDR Contact: 07/28/2025
Data Release Frequency: Varies

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 11/18/2024
Date Data Arrived at EDR: 01/16/2025
Date Made Active in Reports: 04/07/2025
Number of Days to Update: 81

Source: EPA Region 4
Telephone: 404-562-8677
Last EDR Contact: 01/16/2025
Next Scheduled EDR Contact: 07/28/2025
Data Release Frequency: Varies

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land
A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 11/18/2024
Date Data Arrived at EDR: 01/16/2025
Date Made Active in Reports: 04/07/2025
Number of Days to Update: 81

Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 04/09/2025
Next Scheduled EDR Contact: 07/28/2025
Data Release Frequency: Varies

INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land
Leaking underground storage tanks located on Indian Land in Michigan, Minnesota and Wisconsin.

Date of Government Version: 11/18/2024
Date Data Arrived at EDR: 01/16/2025
Date Made Active in Reports: 04/07/2025
Number of Days to Update: 81

Source: EPA, Region 5
Telephone: 312-886-7439
Last EDR Contact: 04/09/2025
Next Scheduled EDR Contact: 07/28/2025
Data Release Frequency: Varies

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 11/18/2024
Date Data Arrived at EDR: 01/16/2025
Date Made Active in Reports: 04/07/2025
Number of Days to Update: 81

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 04/09/2025
Next Scheduled EDR Contact: 07/28/2025
Data Release Frequency: Varies

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 11/18/2024
Date Data Arrived at EDR: 01/16/2025
Date Made Active in Reports: 04/07/2025
Number of Days to Update: 81

Source: EPA Region 6
Telephone: 214-665-6597
Last EDR Contact: 04/09/2025
Next Scheduled EDR Contact: 07/28/2025
Data Release Frequency: Varies

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 01/07/2025
Date Data Arrived at EDR: 01/16/2025
Date Made Active in Reports: 04/07/2025
Number of Days to Update: 81

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 04/09/2025
Next Scheduled EDR Contact: 07/28/2025
Data Release Frequency: Varies

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 11/18/2024
Date Data Arrived at EDR: 01/16/2025
Date Made Active in Reports: 04/07/2025
Number of Days to Update: 81

Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 04/09/2025
Next Scheduled EDR Contact: 07/28/2025
Data Release Frequency: Varies

CPS-SLIC: Statewide SLIC Cases (GEOTRACKER)

Cleanup Program Sites (CPS; also known as Site Cleanups [SC] and formerly known as Spills, Leaks, Investigations, and Cleanups [SLIC] sites) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 02/24/2025
Date Data Arrived at EDR: 02/24/2025
Date Made Active in Reports: 02/26/2025
Number of Days to Update: 2

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/02/2025
Next Scheduled EDR Contact: 09/15/2025
Data Release Frequency: Varies

SLIC REG 1: Active Toxic Site Investigations

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2003
Date Data Arrived at EDR: 04/07/2003
Date Made Active in Reports: 04/25/2003
Number of Days to Update: 18

Source: California Regional Water Quality Control Board, North Coast Region (1)
Telephone: 707-576-2220
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

SLIC REG 2: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/30/2004
Date Data Arrived at EDR: 10/20/2004
Date Made Active in Reports: 11/19/2004
Number of Days to Update: 30

Source: Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-286-0457
Last EDR Contact: 09/19/2011
Next Scheduled EDR Contact: 01/02/2012
Data Release Frequency: No Update Planned

SLIC REG 3: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 05/18/2006
Date Data Arrived at EDR: 05/18/2006
Date Made Active in Reports: 06/15/2006
Number of Days to Update: 28

Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-549-3147
Last EDR Contact: 07/18/2011
Next Scheduled EDR Contact: 10/31/2011
Data Release Frequency: No Update Planned

SLIC REG 4: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 11/17/2004
Date Data Arrived at EDR: 11/18/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 47

Source: Region Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6600
Last EDR Contact: 07/01/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: No Update Planned

SLIC REG 5: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/01/2005
Date Data Arrived at EDR: 04/05/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 16

Source: Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-3291
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

SLIC REG 6V: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 05/24/2005
Date Data Arrived at EDR: 05/25/2005
Date Made Active in Reports: 06/16/2005
Number of Days to Update: 22

Source: Regional Water Quality Control Board, Victorville Branch
Telephone: 619-241-6583
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

SLIC REG 6L: SLIC Sites
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35

Source: California Regional Water Quality Control Board, Lahontan Region
Telephone: 530-542-5574
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

SLIC REG 7: SLIC List
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 11/24/2004
Date Data Arrived at EDR: 11/29/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 36

Source: California Regional Quality Control Board, Colorado River Basin Region
Telephone: 760-346-7491
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

SLIC REG 8: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2008
Date Data Arrived at EDR: 04/03/2008
Date Made Active in Reports: 04/14/2008
Number of Days to Update: 11

Source: California Region Water Quality Control Board Santa Ana Region (8)
Telephone: 951-782-3298
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

SLIC REG 9: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/10/2007
Date Data Arrived at EDR: 09/11/2007
Date Made Active in Reports: 09/28/2007
Number of Days to Update: 17

Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-467-2980
Last EDR Contact: 08/08/2011
Next Scheduled EDR Contact: 11/21/2011
Data Release Frequency: No Update Planned

Lists of state and tribal registered storage tanks

FEMA UST: Underground Storage Tank Listing
A listing of all FEMA owned underground storage tanks.

Date of Government Version: 04/08/2025
Date Data Arrived at EDR: 04/23/2025
Date Made Active in Reports: 04/24/2025
Number of Days to Update: 1

Source: FEMA
Telephone: 202-646-5797
Last EDR Contact: 03/26/2025
Next Scheduled EDR Contact: 07/14/2025
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

UST: Active UST Facilities
Active UST facilities gathered from the local regulatory agencies

Date of Government Version: 03/03/2025
Date Data Arrived at EDR: 03/04/2025
Date Made Active in Reports: 05/22/2025
Number of Days to Update: 79

Source: SWRCB
Telephone: 916-341-5851
Last EDR Contact: 06/02/2025
Next Scheduled EDR Contact: 09/15/2025
Data Release Frequency: Semi-Annually

MILITARY UST SITES: Military UST Sites (GEOTRACKER)
Military ust sites

Date of Government Version: 02/24/2025
Date Data Arrived at EDR: 02/24/2025
Date Made Active in Reports: 02/26/2025
Number of Days to Update: 2

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/02/2025
Next Scheduled EDR Contact: 09/15/2025
Data Release Frequency: Varies

UST CLOSURE: Proposed Closure of Underground Storage Tank (UST) Cases
UST cases that are being considered for closure by either the State Water Resources Control Board or the Executive Director have been posted for a 60-day public comment period. UST Case Closures being proposed for consideration by the State Water Resources Control Board. These are primarily UST cases that meet closure criteria under the decisional framework in State Water Board Resolution No. 92-49 and other Board orders. UST Case Closures proposed for consideration by the Executive Director pursuant to State Water Board Resolution No. 2012-0061. These are cases that meet the criteria of the Low-Threat UST Case Closure Policy. UST Case Closure Review Denials and Approved Orders.

Date of Government Version: 05/13/2025
Date Data Arrived at EDR: 05/22/2025
Date Made Active in Reports: 05/27/2025
Number of Days to Update: 5

Source: State Water Resources Control Board
Telephone: 916-327-7844
Last EDR Contact: 05/22/2025
Next Scheduled EDR Contact: 09/15/2025
Data Release Frequency: Varies

AST: Aboveground Petroleum Storage Tank Facilities
A listing of aboveground storage tank petroleum storage tank locations.

Date of Government Version: 07/06/2016
Date Data Arrived at EDR: 07/12/2016
Date Made Active in Reports: 09/19/2016
Number of Days to Update: 69

Source: California Environmental Protection Agency
Telephone: 916-327-5092
Last EDR Contact: 06/03/2025
Next Scheduled EDR Contact: 09/22/2025
Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 11/18/2024
Date Data Arrived at EDR: 01/16/2025
Date Made Active in Reports: 04/07/2025
Number of Days to Update: 81

Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 04/09/2025
Next Scheduled EDR Contact: 07/28/2025
Data Release Frequency: Varies

INDIAN UST R7: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 01/07/2025
Date Data Arrived at EDR: 01/16/2025
Date Made Active in Reports: 04/07/2025
Number of Days to Update: 81

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 04/09/2025
Next Scheduled EDR Contact: 07/28/2025
Data Release Frequency: Varies

INDIAN UST R10: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 11/18/2024
Date Data Arrived at EDR: 01/16/2025
Date Made Active in Reports: 04/07/2025
Number of Days to Update: 81

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 04/09/2025
Next Scheduled EDR Contact: 07/28/2025
Data Release Frequency: Varies

INDIAN UST R4: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 11/08/2024
Date Data Arrived at EDR: 01/16/2025
Date Made Active in Reports: 04/07/2025
Number of Days to Update: 81

Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 04/09/2025
Next Scheduled EDR Contact: 07/28/2025
Data Release Frequency: Varies

INDIAN UST R1: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 11/18/2024
Date Data Arrived at EDR: 01/16/2025
Date Made Active in Reports: 04/07/2025
Number of Days to Update: 81

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 04/09/2025
Next Scheduled EDR Contact: 07/28/2025
Data Release Frequency: Varies

INDIAN UST R5: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 11/18/2024
Date Data Arrived at EDR: 01/16/2025
Date Made Active in Reports: 04/07/2025
Number of Days to Update: 81

Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 04/09/2025
Next Scheduled EDR Contact: 07/28/2025
Data Release Frequency: Varies

INDIAN UST R9: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 10/15/2024
Date Data Arrived at EDR: 01/16/2025
Date Made Active in Reports: 04/07/2025
Number of Days to Update: 81

Source: EPA Region 9
Telephone: 415-972-3368
Last EDR Contact: 04/09/2025
Next Scheduled EDR Contact: 07/28/2025
Data Release Frequency: Varies

INDIAN UST R8: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 11/18/2024
Date Data Arrived at EDR: 01/16/2025
Date Made Active in Reports: 04/07/2025
Number of Days to Update: 81

Source: EPA Region 8
Telephone: 303-312-6137
Last EDR Contact: 04/09/2025
Next Scheduled EDR Contact: 07/28/2025
Data Release Frequency: Varies

Lists of state and tribal voluntary cleanup sites

INDIAN VCP R7: Voluntary Cleanup Priority Lisitng
A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008
Date Data Arrived at EDR: 04/22/2008
Date Made Active in Reports: 05/19/2008
Number of Days to Update: 27

Source: EPA, Region 7
Telephone: 913-551-7365
Last EDR Contact: 07/08/2021
Next Scheduled EDR Contact: 07/20/2009
Data Release Frequency: Varies

INDIAN VCP R1: Voluntary Cleanup Priority Listing
A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 07/27/2015
Date Data Arrived at EDR: 09/29/2015
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 142

Source: EPA, Region 1
Telephone: 617-918-1102
Last EDR Contact: 06/10/2025
Next Scheduled EDR Contact: 09/29/2025
Data Release Frequency: Varies

VCP: Voluntary Cleanup Program Properties
Contains low threat level properties with either confirmed or unconfirmed releases and the project proponents have request that DTSC oversee investigation and/or cleanup activities and have agreed to provide coverage for DTSC's costs.

Date of Government Version: 01/21/2025
Date Data Arrived at EDR: 01/22/2025
Date Made Active in Reports: 04/03/2025
Number of Days to Update: 71

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 04/22/2025
Next Scheduled EDR Contact: 08/04/2025
Data Release Frequency: Quarterly

Lists of state and tribal brownfield sites

BROWNFIELDS: Considered Brownfieds Sites Listing
A listing of sites the SWRCB considers to be Brownfields since these are sites have come to them through the MOA Process.

Date of Government Version: 03/17/2025
Date Data Arrived at EDR: 03/18/2025
Date Made Active in Reports: 05/30/2025
Number of Days to Update: 73

Source: State Water Resources Control Board
Telephone: 916-323-7905
Last EDR Contact: 06/12/2025
Next Scheduled EDR Contact: 09/26/2025
Data Release Frequency: Quarterly

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites
Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 09/09/2024
Date Data Arrived at EDR: 09/11/2024
Date Made Active in Reports: 12/06/2024
Number of Days to Update: 86

Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 06/10/2025
Next Scheduled EDR Contact: 09/22/2025
Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

WMUDS/SWAT: Waste Management Unit Database

Waste Management Unit Database System. WMUDS is used by the State Water Resources Control Board staff and the Regional Water Quality Control Boards for program tracking and inventory of waste management units. WMUDS is composed of the following databases: Facility Information, Scheduled Inspections Information, Waste Management Unit Information, SWAT Program Information, SWAT Report Summary Information, SWAT Report Summary Data, Chapter 15 (formerly Subchapter 15) Information, Chapter 15 Monitoring Parameters, TPCA Program Information, RCRA Program Information, Closure Information, and Interested Parties Information.

Date of Government Version: 04/01/2000
Date Data Arrived at EDR: 04/10/2000
Date Made Active in Reports: 05/10/2000
Number of Days to Update: 30

Source: State Water Resources Control Board
Telephone: 916-227-4448
Last EDR Contact: 04/16/2025
Next Scheduled EDR Contact: 08/04/2025
Data Release Frequency: No Update Planned

SWRCY: Recycler Database

A listing of recycling facilities in California.

Date of Government Version: 03/03/2025
Date Data Arrived at EDR: 03/04/2025
Date Made Active in Reports: 05/22/2025
Number of Days to Update: 79

Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 05/30/2025
Next Scheduled EDR Contact: 09/15/2025
Data Release Frequency: Quarterly

HAULERS: Registered Waste Tire Haulers Listing

A listing of registered waste tire haulers.

Date of Government Version: 02/11/2025
Date Data Arrived at EDR: 02/19/2025
Date Made Active in Reports: 05/05/2025
Number of Days to Update: 75

Source: Integrated Waste Management Board
Telephone: 916-341-6422
Last EDR Contact: 04/30/2025
Next Scheduled EDR Contact: 08/18/2025
Data Release Frequency: Varies

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands

Location of open dumps on Indian land.

Date of Government Version: 12/31/1998
Date Data Arrived at EDR: 12/03/2007
Date Made Active in Reports: 01/24/2008
Number of Days to Update: 52

Source: Environmental Protection Agency
Telephone: 703-308-8245
Last EDR Contact: 04/21/2025
Next Scheduled EDR Contact: 08/04/2025
Data Release Frequency: Varies

ODI: Open Dump Inventory

An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985
Date Data Arrived at EDR: 08/09/2004
Date Made Active in Reports: 09/17/2004
Number of Days to Update: 39

Source: Environmental Protection Agency
Telephone: 800-424-9346
Last EDR Contact: 06/09/2004
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations

A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009
Date Data Arrived at EDR: 05/07/2009
Date Made Active in Reports: 09/21/2009
Number of Days to Update: 137

Source: EPA, Region 9
Telephone: 415-947-4219
Last EDR Contact: 04/09/2025
Next Scheduled EDR Contact: 07/28/2025
Data Release Frequency: No Update Planned

IHS OPEN DUMPS: Open Dumps on Indian Land

A listing of all open dumps located on Indian Land in the United States.

Date of Government Version: 02/07/2024
Date Data Arrived at EDR: 11/13/2024
Date Made Active in Reports: 11/19/2024
Number of Days to Update: 6

Source: Department of Health & Human Serivces, Indian Health Service
Telephone: 301-443-1452
Last EDR Contact: 04/30/2025
Next Scheduled EDR Contact: 08/04/2025
Data Release Frequency: Varies

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL: National Clandestine Laboratory Register

A listing of clandestine drug lab locations that have been removed from the DEAs National Clandestine Laboratory Register.

Date of Government Version: 12/31/2024
Date Data Arrived at EDR: 02/20/2025
Date Made Active in Reports: 04/29/2025
Number of Days to Update: 68

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 06/02/2025
Next Scheduled EDR Contact: 09/01/2025
Data Release Frequency: No Update Planned

HIST CAL-SITES: Calsites Database

The Calsites database contains potential or confirmed hazardous substance release properties. In 1996, California EPA reevaluated and significantly reduced the number of sites in the Calsites database. No longer updated by the state agency. It has been replaced by ENVIROSTOR.

Date of Government Version: 08/08/2005
Date Data Arrived at EDR: 08/03/2006
Date Made Active in Reports: 08/24/2006
Number of Days to Update: 21

Source: Department of Toxic Substance Control
Telephone: 916-323-3400
Last EDR Contact: 02/23/2009
Next Scheduled EDR Contact: 05/25/2009
Data Release Frequency: No Update Planned

SCH: School Property Evaluation Program

This category contains proposed and existing school sites that are being evaluated by DTSC for possible hazardous materials contamination. In some cases, these properties may be listed in the CalSites category depending on the level of threat to public health and safety or the environment they pose.

Date of Government Version: 01/21/2025
Date Data Arrived at EDR: 01/22/2025
Date Made Active in Reports: 04/03/2025
Number of Days to Update: 71

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 04/22/2025
Next Scheduled EDR Contact: 08/04/2025
Data Release Frequency: Quarterly

CDL: Clandestine Drug Labs

A listing of drug lab locations. Listing of a location in this database does not indicate that any illegal drug lab materials were or were not present there, and does not constitute a determination that the location either requires or does not require additional cleanup work.

Date of Government Version: 12/31/2022
Date Data Arrived at EDR: 03/21/2024
Date Made Active in Reports: 06/12/2024
Number of Days to Update: 83

Source: Department of Toxic Substances Control
Telephone: 916-255-6504
Last EDR Contact: 05/20/2025
Next Scheduled EDR Contact: 08/11/2025
Data Release Frequency: Varies

CERS HAZ WASTE: California Environmental Reporting System Hazardous Waste

List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the Hazardous Chemical Management, Hazardous Waste Onsite Treatment, Household Hazardous Waste Collection, Hazardous Waste Generator, and RCRA LQ HW Generator programs.

Date of Government Version: 01/12/2025
Date Data Arrived at EDR: 01/14/2025
Date Made Active in Reports: 03/28/2025
Number of Days to Update: 73

Source: CalEPA
Telephone: 916-323-2514
Last EDR Contact: 04/15/2025
Next Scheduled EDR Contact: 07/28/2025
Data Release Frequency: Quarterly

TOXIC PITS: Toxic Pits Cleanup Act Sites

Toxic PITS Cleanup Act Sites. TOXIC PITS identifies sites suspected of containing hazardous substances where cleanup has not yet been completed.

Date of Government Version: 07/01/1995
Date Data Arrived at EDR: 08/30/1995
Date Made Active in Reports: 09/26/1995
Number of Days to Update: 27

Source: State Water Resources Control Board
Telephone: 916-227-4364
Last EDR Contact: 01/26/2009
Next Scheduled EDR Contact: 04/27/2009
Data Release Frequency: No Update Planned

US CDL: Clandestine Drug Labs

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 12/31/2024
Date Data Arrived at EDR: 02/20/2025
Date Made Active in Reports: 04/29/2025
Number of Days to Update: 68

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 06/02/2025
Next Scheduled EDR Contact: 09/01/2025
Data Release Frequency: Quarterly

Local Lists of Registered Storage Tanks

SWEEPS UST: SWEEPS UST Listing

Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1990's. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

Date of Government Version: 06/01/1994
Date Data Arrived at EDR: 07/07/2005
Date Made Active in Reports: 08/11/2005
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: N/A
Last EDR Contact: 06/03/2005
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

HIST UST: Hazardous Substance Storage Container Database

The Hazardous Substance Storage Container Database is a historical listing of UST sites. Refer to local/county source for current data.

Date of Government Version: 10/15/1990
Date Data Arrived at EDR: 01/25/1991
Date Made Active in Reports: 02/12/1991
Number of Days to Update: 18

Source: State Water Resources Control Board
Telephone: 916-341-5851
Last EDR Contact: 07/26/2001
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

SAN FRANCISCO AST: Aboveground Storage Tank Site Listing

Aboveground storage tank sites

Date of Government Version: 01/28/2025
Date Data Arrived at EDR: 01/29/2025
Date Made Active in Reports: 04/15/2025
Number of Days to Update: 76

Source: San Francisco County Department of Public Health
Telephone: 415-252-3896
Last EDR Contact: 04/23/2025
Next Scheduled EDR Contact: 08/11/2025
Data Release Frequency: Varies

CA FID UST: Facility Inventory Database

The Facility Inventory Database (FID) contains a historical listing of active and inactive underground storage tank locations from the State Water Resource Control Board. Refer to local/county source for current data.

Date of Government Version: 10/31/1994
Date Data Arrived at EDR: 09/05/1995
Date Made Active in Reports: 09/29/1995
Number of Days to Update: 24

Source: California Environmental Protection Agency
Telephone: 916-341-5851
Last EDR Contact: 12/28/1998
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

CERS TANKS: California Environmental Reporting System (CERS) Tanks

List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the Aboveground Petroleum Storage and Underground Storage Tank regulatory programs.

Date of Government Version: 01/12/2025
Date Data Arrived at EDR: 01/14/2025
Date Made Active in Reports: 03/28/2025
Number of Days to Update: 73

Source: California Environmental Protection Agency
Telephone: 916-323-2514
Last EDR Contact: 04/15/2025
Next Scheduled EDR Contact: 07/28/2025
Data Release Frequency: Quarterly

Local Land Records

LIENS: Environmental Liens Listing

A listing of property locations with environmental liens for California where DTSC is a lien holder.

Date of Government Version: 02/20/2025
Date Data Arrived at EDR: 02/21/2025
Date Made Active in Reports: 05/07/2025
Number of Days to Update: 75

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 05/20/2025
Next Scheduled EDR Contact: 09/08/2025
Data Release Frequency: Varies

LIENS 2: CERCLA Lien Information

A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 03/27/2025
Date Data Arrived at EDR: 04/01/2025
Date Made Active in Reports: 04/24/2025
Number of Days to Update: 23

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 06/02/2025
Next Scheduled EDR Contact: 07/07/2025
Data Release Frequency: Semi-Annually

DEED: Deed Restriction Listing

Site Mitigation and Brownfields Reuse Program Facility Sites with Deed Restrictions & Hazardous Waste Management Program Facility Sites with Deed / Land Use Restriction. The DTSC Site Mitigation and Brownfields Reuse Program (SMBRP) list includes sites cleaned up under the program's oversight and generally does not include current or former hazardous waste facilities that required a hazardous waste facility permit. The list represents deed restrictions that are active. Some sites have multiple deed restrictions. The DTSC Hazardous Waste Management Program (HWMP) has developed a list of current or former hazardous waste facilities that have a recorded land use restriction at the local county recorder's office. The land use restrictions on this list were required by the DTSC HWMP as a result of the presence of hazardous substances that remain on site after the facility (or part of the facility) has been closed or cleaned up. The types of land use restriction include deed notice, deed restriction, or a land use restriction that binds current and future owners.

Date of Government Version: 02/24/2025
Date Data Arrived at EDR: 02/25/2025
Date Made Active in Reports: 05/07/2025
Number of Days to Update: 71

Source: DTSC and SWRCB
Telephone: 916-323-3400
Last EDR Contact: 05/23/2025
Next Scheduled EDR Contact: 09/08/2025
Data Release Frequency: Semi-Annually

Records of Emergency Release Reports

HMIRS: Hazardous Materials Information Reporting System
Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 12/10/2024
Date Data Arrived at EDR: 12/11/2024
Date Made Active in Reports: 02/27/2025
Number of Days to Update: 78

Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 06/12/2025
Next Scheduled EDR Contact: 09/29/2025
Data Release Frequency: Quarterly

CHMIRS: California Hazardous Material Incident Report System
California Hazardous Material Incident Reporting System. CHMIRS contains information on reported hazardous material incidents (accidental releases or spills).

Date of Government Version: 12/30/2024
Date Data Arrived at EDR: 01/14/2025
Date Made Active in Reports: 03/28/2025
Number of Days to Update: 73

Source: Office of Emergency Services
Telephone: 916-845-8400
Last EDR Contact: 04/18/2025
Next Scheduled EDR Contact: 07/28/2025
Data Release Frequency: Semi-Annually

LDS: Land Disposal Sites Listing (GEOTRACKER)
Land Disposal sites (Landfills) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 02/24/2025
Date Data Arrived at EDR: 02/24/2025
Date Made Active in Reports: 02/26/2025
Number of Days to Update: 2

Source: State Water Qualilty Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/02/2025
Next Scheduled EDR Contact: 09/15/2025
Data Release Frequency: Quarterly

MCS: Military Cleanup Sites Listing (GEOTRACKER)
Military sites (consisting of: Military UST sites; Military Privatized sites; and Military Cleanup sites [formerly known as DoD non UST]) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 02/24/2025
Date Data Arrived at EDR: 02/24/2025
Date Made Active in Reports: 02/26/2025
Number of Days to Update: 2

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/02/2025
Next Scheduled EDR Contact: 09/15/2025
Data Release Frequency: Quarterly

SPILLS 90: SPILLS90 data from FirstSearch
Spills 90 includes those spill and release records available exclusively from FirstSearch databases. Typically, they may include chemical, oil and/or hazardous substance spills recorded after 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 90.

Date of Government Version: 06/06/2012
Date Data Arrived at EDR: 01/03/2013
Date Made Active in Reports: 02/22/2013
Number of Days to Update: 50

Source: FirstSearch
Telephone: N/A
Last EDR Contact: 01/03/2013
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

Other Ascertainable Records

RCRA NonGen / NLR: RCRA - Non Generators / No Longer Regulated
RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 02/17/2025
Date Data Arrived at EDR: 02/19/2025
Date Made Active in Reports: 03/06/2025
Number of Days to Update: 15

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 06/04/2025
Next Scheduled EDR Contact: 09/29/2025
Data Release Frequency: Quarterly

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 01/30/2025
Date Data Arrived at EDR: 02/11/2025
Date Made Active in Reports: 04/24/2025
Number of Days to Update: 72

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 05/13/2025
Next Scheduled EDR Contact: 08/25/2025
Data Release Frequency: Varies

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 06/07/2021
Date Data Arrived at EDR: 07/13/2021
Date Made Active in Reports: 03/09/2022
Number of Days to Update: 239

Source: USGS
Telephone: 888-275-8747
Last EDR Contact: 04/08/2025
Next Scheduled EDR Contact: 07/21/2025
Data Release Frequency: Varies

FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 04/02/2018
Date Data Arrived at EDR: 04/11/2018
Date Made Active in Reports: 11/06/2019
Number of Days to Update: 574

Source: U.S. Geological Survey
Telephone: 888-275-8747
Last EDR Contact: 04/03/2025
Next Scheduled EDR Contact: 07/14/2025
Data Release Frequency: N/A

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 07/30/2021
Date Data Arrived at EDR: 02/03/2023
Date Made Active in Reports: 02/10/2023
Number of Days to Update: 7

Source: Environmental Protection Agency
Telephone: 615-532-8599
Last EDR Contact: 05/08/2025
Next Scheduled EDR Contact: 08/18/2025
Data Release Frequency: Varies

US FIN ASSUR: Financial Assurance Information

All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.

Date of Government Version: 02/17/2025
Date Data Arrived at EDR: 02/19/2025
Date Made Active in Reports: 03/06/2025
Number of Days to Update: 15

Source: Environmental Protection Agency
Telephone: 202-566-1917
Last EDR Contact: 06/03/2025
Next Scheduled EDR Contact: 09/29/2025
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

EPA WATCH LIST: EPA Watch List

EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.

Date of Government Version: 08/30/2013
Date Data Arrived at EDR: 03/21/2014
Date Made Active in Reports: 06/17/2014
Number of Days to Update: 88

Source: Environmental Protection Agency
Telephone: 617-520-3000
Last EDR Contact: 04/28/2025
Next Scheduled EDR Contact: 08/11/2025
Data Release Frequency: No Update Planned

2020 COR ACTION: 2020 Corrective Action Program List

The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 09/30/2017
Date Data Arrived at EDR: 05/08/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 73

Source: Environmental Protection Agency
Telephone: 703-308-4044
Last EDR Contact: 05/01/2025
Next Scheduled EDR Contact: 08/11/2025
Data Release Frequency: Varies

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2020
Date Data Arrived at EDR: 06/14/2022
Date Made Active in Reports: 03/24/2023
Number of Days to Update: 283

Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 06/12/2025
Next Scheduled EDR Contact: 09/22/2025
Data Release Frequency: Every 4 Years

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2023
Date Data Arrived at EDR: 02/11/2025
Date Made Active in Reports: 02/18/2025
Number of Days to Update: 7

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 05/15/2025
Next Scheduled EDR Contact: 08/25/2025
Data Release Frequency: Annually

SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 01/13/2025
Date Data Arrived at EDR: 01/15/2025
Date Made Active in Reports: 04/07/2025
Number of Days to Update: 82

Source: EPA
Telephone: 202-564-4203
Last EDR Contact: 04/15/2025
Next Scheduled EDR Contact: 07/28/2025
Data Release Frequency: Annually

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 04/25/2025
Date Data Arrived at EDR: 05/01/2025
Date Made Active in Reports: 05/21/2025
Number of Days to Update: 20

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 06/02/2025
Next Scheduled EDR Contact: 09/08/2025
Data Release Frequency: Annually

RMP: Risk Management Plans

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 01/01/2025
Date Data Arrived at EDR: 01/17/2025
Date Made Active in Reports: 04/07/2025
Number of Days to Update: 80

Source: Environmental Protection Agency
Telephone: 202-564-8600
Last EDR Contact: 04/10/2025
Next Scheduled EDR Contact: 07/28/2025
Data Release Frequency: Varies

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995
Date Data Arrived at EDR: 07/03/1995
Date Made Active in Reports: 08/07/1995
Number of Days to Update: 35

Source: EPA
Telephone: 202-564-4104
Last EDR Contact: 06/02/2008
Next Scheduled EDR Contact: 09/01/2008
Data Release Frequency: No Update Planned

PRP: Potentially Responsible Parties

A listing of verified Potentially Responsible Parties

Date of Government Version: 02/26/2025
Date Data Arrived at EDR: 03/03/2025
Date Made Active in Reports: 04/07/2025
Number of Days to Update: 35

Source: EPA
Telephone: 202-564-6023
Last EDR Contact: 06/02/2025
Next Scheduled EDR Contact: 08/11/2025
Data Release Frequency: Quarterly

PADS: PCB Activity Database System

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 07/01/2024
Date Data Arrived at EDR: 10/02/2024
Date Made Active in Reports: 01/10/2025
Number of Days to Update: 100

Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 04/03/2025
Next Scheduled EDR Contact: 07/14/2025
Data Release Frequency: Annually

ICIS: Integrated Compliance Information System

The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 11/18/2016
Date Data Arrived at EDR: 11/23/2016
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 79

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 03/26/2025
Next Scheduled EDR Contact: 07/14/2025
Data Release Frequency: Quarterly

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Telephone: 202-566-1667
Last EDR Contact: 08/18/2017
Next Scheduled EDR Contact: 12/04/2017
Data Release Frequency: No Update Planned

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA
Telephone: 202-566-1667
Last EDR Contact: 08/18/2017
Next Scheduled EDR Contact: 12/04/2017
Data Release Frequency: No Update Planned

MLTS: Material Licensing Tracking System

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 05/07/2025
Date Data Arrived at EDR: 05/07/2025
Date Made Active in Reports: 06/03/2025
Number of Days to Update: 27

Source: Nuclear Regulatory Commission
Telephone: 301-415-0717
Last EDR Contact: 04/10/2025
Next Scheduled EDR Contact: 07/28/2025
Data Release Frequency: Quarterly

COAL ASH DOE: Steam-Electric Plant Operation Data

A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2023
Date Data Arrived at EDR: 10/16/2024
Date Made Active in Reports: 01/14/2025
Number of Days to Update: 90

Source: Department of Energy
Telephone: 202-586-8719
Last EDR Contact: 05/22/2025
Next Scheduled EDR Contact: 09/08/2025
Data Release Frequency: Varies

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List

A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 01/12/2017
Date Data Arrived at EDR: 03/05/2019
Date Made Active in Reports: 11/11/2019
Number of Days to Update: 251

Source: Environmental Protection Agency
Telephone: N/A
Last EDR Contact: 05/22/2025
Next Scheduled EDR Contact: 09/08/2025
Data Release Frequency: Varies

PCB TRANSFORMER: PCB Transformer Registration Database
The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 09/13/2019
Date Data Arrived at EDR: 11/06/2019
Date Made Active in Reports: 02/10/2020
Number of Days to Update: 96
Source: Environmental Protection Agency
Telephone: 202-566-0517
Last EDR Contact: 05/01/2025
Next Scheduled EDR Contact: 08/11/2025
Data Release Frequency: Varies

RADINFO: Radiation Information Database
The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 07/01/2019
Date Data Arrived at EDR: 07/01/2019
Date Made Active in Reports: 09/23/2019
Number of Days to Update: 84
Source: Environmental Protection Agency
Telephone: 202-343-9775
Last EDR Contact: 03/20/2025
Next Scheduled EDR Contact: 07/07/2025
Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing
A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40
Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2007
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing
A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40
Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2008
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

DOT OPS: Incident and Accident Data
Department of Transporation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 01/10/2025
Date Data Arrived at EDR: 01/22/2025
Date Made Active in Reports: 04/21/2025
Number of Days to Update: 89
Source: Department of Transporation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 04/22/2025
Next Scheduled EDR Contact: 08/04/2025
Data Release Frequency: Quarterly

CONSENT: Superfund (CERCLA) Consent Decrees
Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 12/31/2024
Date Data Arrived at EDR: 01/27/2025
Date Made Active in Reports: 04/21/2025
Number of Days to Update: 84

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 03/26/2025
Next Scheduled EDR Contact: 07/14/2025
Data Release Frequency: Varies

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2023
Date Data Arrived at EDR: 02/19/2025
Date Made Active in Reports: 03/07/2025
Number of Days to Update: 16

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 06/03/2025
Next Scheduled EDR Contact: 09/29/2025
Data Release Frequency: Biennially

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 07/14/2015
Date Made Active in Reports: 01/10/2017
Number of Days to Update: 546

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 04/01/2025
Next Scheduled EDR Contact: 07/14/2025
Data Release Frequency: Semi-Annually

FUSRAP: Formerly Utilized Sites Remedial Action Program

DOE established the Formerly Utilized Sites Remedial Action Program (FUSRAP) in 1974 to remediate sites where radioactive contamination remained from Manhattan Project and early U.S. Atomic Energy Commission (AEC) operations.

Date of Government Version: 03/03/2023
Date Data Arrived at EDR: 03/03/2023
Date Made Active in Reports: 06/09/2023
Number of Days to Update: 98

Source: Department of Energy
Telephone: 202-586-3559
Last EDR Contact: 05/01/2025
Next Scheduled EDR Contact: 08/11/2025
Data Release Frequency: Varies

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 02/12/2025
Date Data Arrived at EDR: 02/12/2025
Date Made Active in Reports: 02/27/2025
Number of Days to Update: 15

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 05/15/2025
Next Scheduled EDR Contact: 08/25/2025
Data Release Frequency: Varies

LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 03/27/2025
Date Data Arrived at EDR: 04/01/2025
Date Made Active in Reports: 04/24/2025
Number of Days to Update: 23

Source: Environmental Protection Agency
Telephone: 703-603-8787
Last EDR Contact: 06/02/2025
Next Scheduled EDR Contact: 07/07/2025
Data Release Frequency: Varies

LEAD SMELTER 2: Lead Smelter Sites

A list of several hundred sites in the U.S. where secondary lead smelting was done from 1931and 1964. These sites may pose a threat to public health through ingestion or inhalation of contaminated soil or dust

Date of Government Version: 04/05/2001
Date Data Arrived at EDR: 10/27/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 36

Source: American Journal of Public Health
Telephone: 703-305-6451
Last EDR Contact: 12/02/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)

The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Annually

US AIRS MINOR: Air Facility System Data

A listing of minor source facilities.

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Annually

US MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 02/03/2025
Date Data Arrived at EDR: 02/18/2025
Date Made Active in Reports: 03/20/2025
Number of Days to Update: 30

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 05/20/2025
Next Scheduled EDR Contact: 09/01/2025
Data Release Frequency: Semi-Annually

MINES VIOLATIONS: MSHA Violation Assessment Data

Mines violation and assessment information. Department of Labor, Mine Safety & Health Administration.

Date of Government Version: 02/19/2025
Date Data Arrived at EDR: 02/21/2025
Date Made Active in Reports: 03/20/2025
Number of Days to Update: 27

Source: DOL, Mine Safety & Health Admi
Telephone: 202-693-9424
Last EDR Contact: 04/02/2025
Next Scheduled EDR Contact: 09/01/2025
Data Release Frequency: Quarterly

US MINES 2: Ferrous and Nonferrous Metal Mines Database Listing

This map layer includes ferrous (ferrous metal mines are facilities that extract ferrous metals, such as iron ore or molybdenum) and nonferrous (Nonferrous metal mines are facilities that extract nonferrous metals, such as gold, silver, copper, zinc, and lead) metal mines in the United States.

Date of Government Version: 05/02/2024
Date Data Arrived at EDR: 08/20/2024
Date Made Active in Reports: 10/09/2024
Number of Days to Update: 50

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 05/20/2025
Next Scheduled EDR Contact: 09/01/2025
Data Release Frequency: Varies

US MINES 3: Active Mines & Mineral Plants Database Listing

Active Mines and Mineral Processing Plant operations for commodities monitored by the Minerals Information Team of the USGS.

Date of Government Version: 04/14/2011
Date Data Arrived at EDR: 06/08/2011
Date Made Active in Reports: 09/13/2011
Number of Days to Update: 97

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 05/22/2025
Next Scheduled EDR Contact: 09/01/2025
Data Release Frequency: Varies

ABANDONED MINES: Abandoned Mines

An inventory of land and water impacted by past mining (primarily coal mining) is maintained by OSMRE to provide information needed to implement the Surface Mining Control and Reclamation Act of 1977 (SMCRA). The inventory contains information on the location, type, and extent of AML impacts, as well as, information on the cost associated with the reclamation of those problems. The inventory is based upon field surveys by State, Tribal, and OSMRE program officials. It is dynamic to the extent that it is modified as new problems are identified and existing problems are reclaimed.

Date of Government Version: 05/28/2025
Date Data Arrived at EDR: 05/28/2025
Date Made Active in Reports: 06/03/2025
Number of Days to Update: 6

Source: Department of Interior
Telephone: 202-208-2609
Last EDR Contact: 05/28/2025
Next Scheduled EDR Contact: 09/15/2025
Data Release Frequency: Quarterly

MINES MRDS: Mineral Resources Data System

Mineral Resources Data System

Date of Government Version: 06/04/2024
Date Data Arrived at EDR: 11/22/2024
Date Made Active in Reports: 02/18/2025
Number of Days to Update: 88

Source: USGS
Telephone: 703-648-6533
Last EDR Contact: 05/22/2025
Next Scheduled EDR Contact: 09/01/2025
Data Release Frequency: Varies

FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 04/22/2025
Date Data Arrived at EDR: 05/05/2025
Date Made Active in Reports: 05/21/2025
Number of Days to Update: 16

Source: EPA
Telephone: (415) 947-8000
Last EDR Contact: 05/05/2025
Next Scheduled EDR Contact: 09/08/2025
Data Release Frequency: Quarterly

DOCKET HWC: Hazardous Waste Compliance Docket Listing

A complete list of the Federal Agency Hazardous Waste Compliance Docket Facilities.

Date of Government Version: 05/06/2021
Date Data Arrived at EDR: 05/21/2021
Date Made Active in Reports: 08/11/2021
Number of Days to Update: 82

Source: Environmental Protection Agency
Telephone: 202-564-0527
Last EDR Contact: 05/14/2025
Next Scheduled EDR Contact: 09/01/2025
Data Release Frequency: Varies

UXO: Unexploded Ordnance Sites

A listing of unexploded ordnance site locations

Date of Government Version: 02/14/2025
Date Data Arrived at EDR: 03/11/2025
Date Made Active in Reports: 06/03/2025
Number of Days to Update: 84

Source: Department of Defense
Telephone: 703-704-1564
Last EDR Contact: 04/03/2025
Next Scheduled EDR Contact: 07/21/2025
Data Release Frequency: Varies

ECHO: Enforcement & Compliance History Information

ECHO provides integrated compliance and enforcement information for about 800,000 regulated facilities nationwide.

Date of Government Version: 12/21/2024
Date Data Arrived at EDR: 12/27/2024
Date Made Active in Reports: 01/10/2025
Number of Days to Update: 14

Source: Environmental Protection Agency
Telephone: 202-564-2280
Last EDR Contact: 03/27/2025
Next Scheduled EDR Contact: 07/14/2025
Data Release Frequency: Quarterly

FUELS PROGRAM: EPA Fuels Program Registered Listing

This listing includes facilities that are registered under the Part 80 (Code of Federal Regulations) EPA Fuels Programs. All companies now are required to submit new and updated registrations.

Date of Government Version: 02/13/2025
Date Data Arrived at EDR: 02/13/2025
Date Made Active in Reports: 04/29/2025
Number of Days to Update: 75

Source: EPA
Telephone: 800-385-6164
Last EDR Contact: 05/13/2025
Next Scheduled EDR Contact: 08/25/2025
Data Release Frequency: Quarterly

PFAS NPL: Superfund Sites with PFAS Detections Information

EPA's Office of Land and Emergency Management and EPA Regional Offices maintain data describing what is known about site investigations, contamination, and remedial actions under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) where PFAS is present in the environment.

Date of Government Version: 03/31/2025
Date Data Arrived at EDR: 04/02/2025
Date Made Active in Reports: 05/05/2025
Number of Days to Update: 33

Source: Environmental Protection Agency
Telephone: 703-603-8895
Last EDR Contact: 04/02/2025
Next Scheduled EDR Contact: 07/14/2025
Data Release Frequency: Varies

PFAS FEDERAL SITES: Federal Sites PFAS Information

Several federal entities, such as the federal Superfund program, Department of Defense, National Aeronautics and Space Administration, Department of Transportation, and Department of Energy provided information for sites with known or suspected detections at federal facilities.

Date of Government Version: 03/31/2025
Date Data Arrived at EDR: 04/02/2025
Date Made Active in Reports: 05/05/2025
Number of Days to Update: 33

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 04/02/2025
Next Scheduled EDR Contact: 07/14/2025
Data Release Frequency: Varies

PFAS TSCA: PFAS Manufacture and Imports Information

EPA issued the Chemical Data Reporting (CDR) Rule under the Toxic Substances Control Act (TSCA) and requires chemical manufacturers and facilities that manufacture or import chemical substances to report data to EPA. EPA publishes non-confidential business information (non-CBI) and includes descriptive information about each site, corporate parent, production volume, other manufacturing information, and processing and use information.

Date of Government Version: 03/31/2025
Date Data Arrived at EDR: 04/02/2025
Date Made Active in Reports: 05/05/2025
Number of Days to Update: 33

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 04/02/2025
Next Scheduled EDR Contact: 07/14/2025
Data Release Frequency: Varies

PFAS TRIS: List of PFAS Added to the TRI

Section 7321 of the National Defense Authorization Act for Fiscal Year 2020 (NDAA) immediately added certain per- and polyfluoroalkyl substances (PFAS) to the list of chemicals covered by the Toxics Release Inventory (TRI) under Section 313 of the Emergency Planning and Community Right-to-Know Act (EPCRA) and provided a framework for additional PFAS to be added to TRI on an annual basis.

Date of Government Version: 03/07/2025
Date Data Arrived at EDR: 04/02/2025
Date Made Active in Reports: 05/05/2025
Number of Days to Update: 33

Source: Environmental Protection Agency
Telephone: 202-566-0250
Last EDR Contact: 04/02/2025
Next Scheduled EDR Contact: 07/14/2025
Data Release Frequency: Varies

PFAS RCRA MANIFEST: PFAS Transfers Identified In the RCRA Database Listing

To work around the lack of PFAS waste codes in the RCRA database, EPA developed the PFAS Transfers dataset by mining e-Manifest records containing at least one of these common PFAS keywords: PFAS, PFOA, PFOS, PERFL, AFFF, GENX, GEN-X (plus the VT waste codes). These keywords were searched for in the following text fields: Manifest handling instructions (MANIFEST_HANDLING_INSTR), Non-hazardous waste description (NON_HAZ_WASTE_DESCRIPTION), DOT printed information (DOT_PRINTED_INFORMATION), Waste line handling instructions (WASTE_LINE_HANDLING_INSTR), Waste residue comments (WASTE_RESIDUE_COMMENTS).

Date of Government Version: 03/23/2025
Date Data Arrived at EDR: 04/02/2025
Date Made Active in Reports: 05/05/2025
Number of Days to Update: 33

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 04/02/2025
Next Scheduled EDR Contact: 07/14/2025
Data Release Frequency: Varies

PFAS ATSDR: PFAS Contamination Site Location Listing

PFAS contamination site locations from the Department of Health & Human Services, Center for Disease Control & Prevention. ATSDR is involved at a number of PFAS-related sites, either directly or through assisting state and federal partners. As of now, most sites are related to drinking water contamination connected with PFAS production facilities or fire training areas where aqueous film-forming firefighting foam (AFFF) was regularly used.

Date of Government Version: 06/24/2020
Date Data Arrived at EDR: 03/17/2021
Date Made Active in Reports: 11/08/2022
Number of Days to Update: 601

Source: Department of Health & Human Services
Telephone: 202-741-5770
Last EDR Contact: 04/17/2025
Next Scheduled EDR Contact: 08/04/2025
Data Release Frequency: Varies

PFAS WQP: Ambient Environmental Sampling for PFAS

The Water Quality Portal (WQP) is a part of a modernized repository storing ambient sampling data for all environmental media and tissue samples. A wide range of federal, state, tribal and local governments, academic and non-governmental organizations and individuals submit project details and sampling results to this public repository. The information is commonly used for research and assessments of environmental quality.

Date of Government Version: 03/03/2025
Date Data Arrived at EDR: 04/02/2025
Date Made Active in Reports: 05/21/2025
Number of Days to Update: 49

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 04/02/2025
Next Scheduled EDR Contact: 07/14/2025
Data Release Frequency: Varies

PFAS PROJECT: NORTHEASTERN UNIVERSITY PFAS PROJECT

The PFAS Contamination Site Tracker records qualitative and quantitative data from each site in a chart, specifically examining discovery, contamination levels, government response, litigation, health impacts, media coverage, and community characteristics. All data presented in the chart were extracted from government websites, such as state health departments or the Environmental Protection Agency, and news articles.

Date of Government Version: 05/15/2024
Date Data Arrived at EDR: 03/06/2025
Date Made Active in Reports: 06/03/2025
Number of Days to Update: 89

Source: Social Science Environmental Health Research Institute
Telephone: N/A
Last EDR Contact: 06/05/2025
Next Scheduled EDR Contact: 09/15/2025
Data Release Frequency: Varies

PFAS NPDES: Clean Water Act Discharge Monitoring Information

Any discharger of pollutants to waters of the United States from a point source must have a National Pollutant Discharge Elimination System (NPDES) permit. The process for obtaining limits involves the regulated entity (permittee) disclosing releases in a NPDES permit application and the permitting authority (typically the state but sometimes EPA) deciding whether to require monitoring or monitoring with limits. Caveats and Limitations: Less than half of states have required PFAS monitoring for at least one of their permittees and fewer states have established PFAS effluent limits for permittees. New rulemakings have been initiated that may increase the number of facilities monitoring for PFAS in the future.

Date of Government Version: 03/24/2025
Date Data Arrived at EDR: 04/02/2025
Date Made Active in Reports: 05/21/2025
Number of Days to Update: 49

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 04/02/2025
Next Scheduled EDR Contact: 07/14/2025
Data Release Frequency: Varies

PFAS ECHO: Facilities in Industries that May Be Handling PFAS Listing

Regulators and the public have expressed interest in knowing which regulated entities may be using PFAS. EPA has developed a dataset from various sources that show which industries may be handling PFAS. Approximately 120,000 facilities subject to federal environmental programs have operated or currently operate in industry sectors with processes that may involve handling and/or release of PFAS.

Date of Government Version: 03/24/2025
Date Data Arrived at EDR: 04/02/2025
Date Made Active in Reports: 05/21/2025
Number of Days to Update: 49

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 04/02/2025
Next Scheduled EDR Contact: 07/14/2025
Data Release Frequency: Varies

PFAS ECHO FIRE TRAIN: Facilities in Industries that May Be Handling PFAS Listing

A list of fire training sites was added to the Industry Sectors dataset using a keyword search on the permitted facilitys name to identify sites where fire-fighting foam may have been used in training exercises. Additionally, you may view an example spreadsheet of the subset of fire training facility data, as well as the keywords used in selecting or deselecting a facility for the subset. as well as the keywords used in selecting or deselecting a facility for the subset. These keywords were tested to maximize accuracy in selecting facilities that may use fire-fighting foam in training exercises, however, due to the lack of a required reporting field in the data systems for designating fire training sites, this methodology may not identify all fire training sites or may potentially misidentify them.

Date of Government Version: 03/24/2025
Date Data Arrived at EDR: 04/02/2025
Date Made Active in Reports: 05/21/2025
Number of Days to Update: 49

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 04/02/2025
Next Scheduled EDR Contact: 07/14/2025
Data Release Frequency: Varies

PFAS PT 139 AIRPORT: All Certified Part 139 Airports PFAS Information Listing

Since July 1, 2006, all certified part 139 airports are required to have fire-fighting foam onsite that meet military specifications (MIL-F-24385) (14 CFR 139.317). To date, these military specification fire-fighting foams are fluorinated and have been historically used for training and extinguishing. The 2018 FAA Reauthorization Act has a provision stating that no later than October 2021, FAA shall not require the use of fluorinated AFFF. This provision does not prohibit the use of fluorinated AFFF at Part 139 civilian airports; it only prohibits FAA from mandating its use. The Federal Aviation Administration?s document AC 150/5210-6D - Aircraft Fire Extinguishing Agents provides guidance on Aircraft Fire Extinguishing Agents, which includes Aqueous Film Forming Foam (AFFF).

Date of Government Version: 03/24/2025
Date Data Arrived at EDR: 04/02/2025
Date Made Active in Reports: 05/21/2025
Number of Days to Update: 49

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 04/02/2025
Next Scheduled EDR Contact: 07/14/2025
Data Release Frequency: Varies

AQUEOUS FOAM NRC: Aqueous Foam Related Incidents Listing

The National Response Center (NRC) serves as an emergency call center that fields initial reports for pollution and railroad incidents and forwards that information to appropriate federal/state agencies for response. The spreadsheets posted to the NRC website contain initial incident data that has not been validated or investigated by a federal/state response agency. Response center calls from 1990 to the most recent complete calendar year where there was indication of Aqueous Film Forming Foam (AFFF) usage are included in this dataset. NRC calls may reference AFFF usage in the ?Material Involved? or ?Incident Description? fields.

Date of Government Version: 03/24/2025
Date Data Arrived at EDR: 04/02/2025
Date Made Active in Reports: 04/29/2025
Number of Days to Update: 27

Source: Environmental Protection Agency
Telephone: 202-267-2675
Last EDR Contact: 04/02/2025
Next Scheduled EDR Contact: 07/14/2025
Data Release Frequency: Varies

PCS ENF: Enforcement data

No description is available for this data

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 02/05/2015
Date Made Active in Reports: 03/06/2015
Number of Days to Update: 29

Source: EPA
Telephone: 202-564-2497
Last EDR Contact: 03/27/2025
Next Scheduled EDR Contact: 07/14/2025
Data Release Frequency: Varies

PCS: Permit Compliance System

PCS is a computerized management information system that contains data on National Pollutant Discharge Elimination System (NPDES) permit holding facilities. PCS tracks the permit, compliance, and enforcement status of NPDES facilities.

Date of Government Version: 12/16/2016
Date Data Arrived at EDR: 01/06/2017
Date Made Active in Reports: 03/10/2017
Number of Days to Update: 63

Source: EPA, Office of Water
Telephone: 202-564-2496
Last EDR Contact: 03/27/2025
Next Scheduled EDR Contact: 07/14/2025
Data Release Frequency: No Update Planned

BIOSOLIDS: ICIS-NPDES Biosolids Facility Data

The data reflects compliance information about facilities in the biosolids program.

Date of Government Version: 01/12/2025
Date Data Arrived at EDR: 01/14/2025
Date Made Active in Reports: 03/20/2025
Number of Days to Update: 65

Source: Environmental Protection Agency
Telephone: 202-564-4700
Last EDR Contact: 04/15/2025
Next Scheduled EDR Contact: 07/28/2025
Data Release Frequency: Varies

UST FINDER: UST Finder Database

EPA developed UST Finder, a web map application containing a comprehensive, state-sourced national map of underground storage tank (UST) and leaking UST (LUST) data. It provides the attributes and locations of active and closed USTs, UST facilities, and LUST sites from states and from Tribal lands and US territories . UST Finder contains information about proximity of UST facilities and LUST sites to: surface and groundwater public drinking water protection areas; estimated number of private domestic wells and number of people living nearby; and flooding and wildfires.

Date of Government Version: 06/08/2023
Date Data Arrived at EDR: 10/04/2023
Date Made Active in Reports: 01/18/2024
Number of Days to Update: 106

Source: Environmental Protection Agency
Telephone: 202-564-0394
Last EDR Contact: 05/08/2025
Next Scheduled EDR Contact: 08/18/2025
Data Release Frequency: Varies

UST FINDER RELEASE: UST Finder Releases Database

US EPA's UST Finder data is a national composite of leaking underground storage tanks. This data contains information about, and locations of, leaking underground storage tanks. Data was collected from state sources and standardized into a national profile by EPA's Office of Underground Storage Tanks, Office of Research and Development, and the Association of State and Territorial Solid Waste Management Officials.

Date of Government Version: 06/08/2023
Date Data Arrived at EDR: 10/31/2023
Date Made Active in Reports: 01/18/2024
Number of Days to Update: 79

Source: Environmental Protecton Agency
Telephone: 202-564-0394
Last EDR Contact: 05/08/2025
Next Scheduled EDR Contact: 08/18/2025
Data Release Frequency: Semi-Annually

E MANIFEST: Hazardous Waste Electronic Manifest System

EPA established a national system for tracking hazardous waste shipments electronically. This system, known as ?e-Manifest,? will modernize the nation?s cradle-to-grave hazardous waste tracking process while saving valuable time, resources, and dollars for industry and states.

Date of Government Version: 02/17/2025
Date Data Arrived at EDR: 02/19/2025
Date Made Active in Reports: 03/14/2025
Number of Days to Update: 23

Source: Environmental Protection Agency
Telephone: 833-501-6826
Last EDR Contact: 06/04/2025
Next Scheduled EDR Contact: 09/29/2025
Data Release Frequency: Varies

PFAS: PFAS Contamination Site Location Listing

A listing of PFAS sites included in the Envirostor and GeoTracker databases. Locations of potential sources of per - and polyfluoroalkyl substances (PFAS). This does not mean that PFAS has been produced, used, or discharged at these sites.

Date of Government Version: 03/03/2025
Date Data Arrived at EDR: 03/04/2025
Date Made Active in Reports: 05/22/2025
Number of Days to Update: 79

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/02/2025
Next Scheduled EDR Contact: 09/15/2025
Data Release Frequency: Varies

AQUEOUS FOAM: Former Fire Training Facility Assessments Listing

Airports shown on this list are those believed to use Aqueous Film Forming Foam (AFFF), and certified by the Federal Aviation Administration (FAA) under Title 14, Code of Federal Regulations (CFR), Part 139 (14 CFR Part 139). This list was created by SWRCB using information available from the FAA. Location points shown are from the latitude and longitude listed on the FAA airport master record.

Date of Government Version: 03/03/2025
Date Data Arrived at EDR: 03/04/2025
Date Made Active in Reports: 05/21/2025
Number of Days to Update: 78

Source: State Water Resources Control Board
Telephone: 916-341-5455
Last EDR Contact: 06/02/2025
Next Scheduled EDR Contact: 09/15/2025
Data Release Frequency: Varies

CA BOND EXP. PLAN: Bond Expenditure Plan

Department of Health Services developed a site-specific expenditure plan as the basis for an appropriation of Hazardous Substance Cleanup Bond Act funds. It is not updated.

Date of Government Version: 01/01/1989
Date Data Arrived at EDR: 07/27/1994
Date Made Active in Reports: 08/02/1994
Number of Days to Update: 6

Source: Department of Health Services
Telephone: 916-255-2118
Last EDR Contact: 05/31/1994
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

CHROME PLATING: Chrome Plating Facilities Listing

This listing represents chrome plating facilities the California State Water Resources Control Board staff identified as possibly being a source of Per- and polyfluoroalkyl substance (PFAS) contamination. Sites and locations were identified by staff with the Division of Water Quality in the California State Water Board. Data was collected from the CA Air Resources Board 2013 and 2018 - Cr VI emission survey, CA Emission Inventory, CA HAZ Waste discharge database and by reviewing storm water permits. Former chrome plating sites are also included that are open site investigation or remediation cases with the Regional Water Quality Control Boards and the Department of Toxic Substances Control.

Date of Government Version: 03/03/2025
Date Data Arrived at EDR: 03/04/2025
Date Made Active in Reports: 05/21/2025
Number of Days to Update: 78

Source: State Water Resources Control Board
Telephone: 916-341-5455
Last EDR Contact: 06/02/2025
Next Scheduled EDR Contact: 09/15/2025
Data Release Frequency: Varies

CORTESE: "Cortese" Hazardous Waste & Substances Sites List
The sites for the list are designated by the State Water Resource Control Board (LUST), the Integrated Waste Board (SWF/LS), and the Department of Toxic Substances Control (Cal-Sites).

Date of Government Version: 03/17/2025
Date Data Arrived at EDR: 03/18/2025
Date Made Active in Reports: 05/30/2025
Number of Days to Update: 73

Source: CAL EPA/Office of Emergency Information
Telephone: 916-323-3400
Last EDR Contact: 06/12/2025
Next Scheduled EDR Contact: 09/29/2025
Data Release Frequency: Quarterly

CUPA LIV-PLE: CUPA Facility Listing
list of facilities associated with the various CUPA programs in Livermore-Pleasanton

Date of Government Version: 09/19/2024
Date Data Arrived at EDR: 11/05/2024
Date Made Active in Reports: 01/31/2025
Number of Days to Update: 87

Source: Livermore-Pleasanton Fire Department
Telephone: 925-454-2361
Last EDR Contact: 05/08/2025
Next Scheduled EDR Contact: 08/18/2025
Data Release Frequency: Varies

DRYCLEAN SOUTH COAST: South Coast Air Quality Management District Drycleaner Listing
A listing of dry cleaners in the South Coast Air Quality Management District

Date of Government Version: 01/27/2025
Date Data Arrived at EDR: 02/19/2025
Date Made Active in Reports: 05/02/2025
Number of Days to Update: 72

Source: South Coast Air Quality Management District
Telephone: 909-396-3211
Last EDR Contact: 05/14/2025
Next Scheduled EDR Contact: 09/01/2025
Data Release Frequency: Varies

DRYCLEAN BAY AREA: Bay Area Air Quality Management District Drycleaner Facility Listing
Bay Area Air Quality Management District Drycleaner Facility Listing.

Date of Government Version: 02/20/2019
Date Data Arrived at EDR: 05/30/2019
Date Made Active in Reports: 05/01/2023
Number of Days to Update: 1432

Source: Bay Area Air Quality Management District
Telephone: 415-516-1916
Last EDR Contact: 05/02/2025
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN CALAVERAS: Calaveras County Environmental Management Agency Drycleaner Facility Listing
A listing of drycleaner facility locations, for the Calaveras County Environmental Management Agency.

Date of Government Version: 06/17/2019
Date Data Arrived at EDR: 06/19/2019
Date Made Active in Reports: 05/01/2023
Number of Days to Update: 1412

Source: Calaveras County Environmental Management Agency
Telephone: 209-754-6399
Last EDR Contact: 05/02/2025
Next Scheduled EDR Contact: 09/16/2019
Data Release Frequency: Varies

DRYCLEAN N COAST: North Coast Unified Air Quality Management District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the North Coast Unified Air Quality Management District.

Date of Government Version: 11/30/2016
Date Data Arrived at EDR: 04/19/2019
Date Made Active in Reports: 05/01/2023
Number of Days to Update: 1473

Source: North Coast Unified Air Quality Management District
Telephone: 707-443-3093
Last EDR Contact: 05/02/2025
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN SANTA BARB: Santa Barbara County Air Pollution Control District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the Santa Barbara County Air Pollution Control District.

Date of Government Version: 02/19/2019
Date Data Arrived at EDR: 04/17/2019
Date Made Active in Reports: 05/01/2023
Number of Days to Update: 1475
Source: Santa Barbara County Air Pollution Control District
Telephone: 805-961-8867
Last EDR Contact: 05/02/2025
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN TEHAMA: Tehama County Air Pollution Control District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the Tehama County Air Pollution Control District.

Date of Government Version: 04/24/2019
Date Data Arrived at EDR: 04/24/2019
Date Made Active in Reports: 05/01/2023
Number of Days to Update: 1468
Source: Tehama County Air Pollution Control District
Telephone: 530-527-3717
Last EDR Contact: 05/02/2025
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN AVAQMD: Antelope Valley Air Quality Management District Drycleaner Listing
A listing of dry cleaners in the Antelope Valley Air Quality Management District.

Date of Government Version: 05/22/2025
Date Data Arrived at EDR: 05/22/2025
Date Made Active in Reports: 05/30/2025
Number of Days to Update: 8
Source: Antelope Valley Air Quality Management District
Telephone: 661-723-8070
Last EDR Contact: 05/20/2025
Next Scheduled EDR Contact: 09/08/2025
Data Release Frequency: Varies

DRYCLEAN SHASTA: Shasta County Air Quality Management District District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the Shasta County Air Quality Management District.

Date of Government Version: 08/29/2024
Date Data Arrived at EDR: 09/05/2024
Date Made Active in Reports: 11/13/2024
Number of Days to Update: 69
Source: Shasta County Air Quality Management District
Telephone: 530-225-5674
Last EDR Contact: 05/02/2025
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN MOJAVE: Mojave Desert Air Quality Management District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the Mojave Desert Air Quality Management District.

Date of Government Version: 08/21/2024
Date Data Arrived at EDR: 08/22/2024
Date Made Active in Reports: 11/05/2024
Number of Days to Update: 75
Source: Mojave Desert Air Quality Management District
Telephone: 760-245-1661
Last EDR Contact: 05/02/2025
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN N SIERRA: Northern Sierra Air Quality Management District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the Northern Sierra Air Quality Management District,

Date of Government Version: 08/22/2024
Date Data Arrived at EDR: 08/22/2024
Date Made Active in Reports: 11/05/2024
Number of Days to Update: 75
Source: Northern Sierra Air Quality Management District
Telephone: 530-274-9350
Last EDR Contact: 05/05/2025
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN MONTERY BAY: Monterey Bay Air Quality Management District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the Monterey Bay Air Quality Management District.

Date of Government Version: 09/09/2024
Date Data Arrived at EDR: 09/11/2024
Date Made Active in Reports: 11/26/2024
Number of Days to Update: 76
Source: Monterey Bay Air Quality Management District
Telephone: 831-647-9411
Last EDR Contact: 05/02/2025
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN AMADOR: Amador Air District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the Amador Air Quality Management District

Date of Government Version: 04/26/2023
Date Data Arrived at EDR: 04/27/2023
Date Made Active in Reports: 07/13/2023
Number of Days to Update: 77

Source: Amador Air Quality Management District
Telephone: 209-257-0112
Last EDR Contact: 05/02/2025
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN VENTURA: Drycleaner Facility Listing
A listing of drycleaner facility locations, for the Ventura County Air Pollution Control District.

Date of Government Version: 08/26/2024
Date Data Arrived at EDR: 08/28/2024
Date Made Active in Reports: 11/14/2024
Number of Days to Update: 78

Source: Ventura County Air Pollution Control District
Telephone: 805-645-1421
Last EDR Contact: 05/02/2025
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEANERS: Cleaner Facilities
A list of drycleaner related facilities that have EPA ID numbers. These are facilities with certain SIC codes: power laundries, family and commercial; garment pressing and cleaner's agents; linen supply; coin-operated laundries and cleaning; drycleaning plants, except rugs; carpet and upholster cleaning; industrial launderers; laundry and garment services.

Date of Government Version: 02/20/2025
Date Data Arrived at EDR: 02/26/2025
Date Made Active in Reports: 03/28/2025
Number of Days to Update: 30

Source: Department of Toxic Substance Control
Telephone: 916-327-4498
Last EDR Contact: 05/20/2025
Next Scheduled EDR Contact: 09/08/2025
Data Release Frequency: Annually

DRYCLEAN EAST KERN: Eastern Kern Air Pollution Control District District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the Eastern Kern Air Pollution Control District.

Date of Government Version: 08/21/2024
Date Data Arrived at EDR: 08/22/2024
Date Made Active in Reports: 11/05/2024
Number of Days to Update: 75

Source: Eastern Kern Air Pollution Control District
Telephone: 661-862-9684
Last EDR Contact: 05/02/2025
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN SAN JOAQUIN: San Joaquin Valley Air Pollution Control District District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the San Joaquin Valley Air Pollution Control District.

Date of Government Version: 08/22/2024
Date Data Arrived at EDR: 08/22/2024
Date Made Active in Reports: 11/05/2024
Number of Days to Update: 75

Source: San Joaquin Valley Air Pollution Control District
Telephone: 559-230-6001
Last EDR Contact: 05/02/2025
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN GLENN: Glenn County Air Pollution Control District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the Glenn County Air Pollution Control District.

Date of Government Version: 08/26/2024
Date Data Arrived at EDR: 08/28/2024
Date Made Active in Reports: 11/13/2024
Number of Days to Update: 77

Source: Glenn County Air Pollution Control District
Telephone: 530-934-6500
Last EDR Contact: 05/02/2025
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN BUTTE: Butte County Air Quality Management DistrictDrycleaner Facility Listing
Butte County Air Quality Management DistrictDrycleaner Facility Listing.

Date of Government Version: 09/10/2024
Date Data Arrived at EDR: 09/11/2024
Date Made Active in Reports: 11/25/2024
Number of Days to Update: 75

Source: Butte County Air Quality Management District
Telephone: 530-332-9400
Last EDR Contact: 05/02/2025
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN FEATHER RVR: Feather River Air Quality Management District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the Feather River Air Quality Management District.

Date of Government Version: 03/08/2023
Date Data Arrived at EDR: 03/09/2023
Date Made Active in Reports: 06/05/2023
Number of Days to Update: 88

Source: Feather River Air Quality Management District
Telephone: 530-634-7659
Last EDR Contact: 05/02/2025
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN N SONOMA: Norther Sonoma County County Air Pollution Control District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the Northern Sonoma County Air Pollution Control District.,

Date of Government Version: 08/23/2024
Date Data Arrived at EDR: 08/26/2024
Date Made Active in Reports: 11/05/2024
Number of Days to Update: 71

Source: Santa Barbara County Air Pollution Control District
Telephone: 707-433-5911
Last EDR Contact: 05/02/2025
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN GRANT: Grant Recipients List
Assembly Bill 998 (AB 998) established the Non-Toxic Dry Cleaning Incentive Program to provide financial assistance to the dry cleaning industry to switch from systems using perchloroethylene (Perc), an identified toxic air contaminant and potential human carcinogen, to non-toxic and non-smog forming alternatives.

Date of Government Version: 12/31/2021
Date Data Arrived at EDR: 01/26/2024
Date Made Active in Reports: 04/16/2024
Number of Days to Update: 81

Source: California Air Resources Board
Telephone: 916-323-0006
Last EDR Contact: 04/24/2025
Next Scheduled EDR Contact: 08/04/2025
Data Release Frequency: Varies

DRYCLEAN YOLO-SOLANO: Yolo-Solano Air Quality Management District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the Yolo-Solano Air Quality Management District.

Date of Government Version: 08/21/2024
Date Data Arrived at EDR: 08/26/2024
Date Made Active in Reports: 11/06/2024
Number of Days to Update: 72

Source: Yolo-Solano Air Quality Management District
Telephone: 530-757-3650
Last EDR Contact: 05/02/2025
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN LAKE: Lake County Air Quality Management District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the Lake County Air Quality Management District,

Date of Government Version: 02/15/2024
Date Data Arrived at EDR: 02/16/2024
Date Made Active in Reports: 05/02/2024
Number of Days to Update: 76

Source: Lake County Air Quality Management District
Telephone: 707-263-7000
Last EDR Contact: 05/02/2025
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN SAN DIEGO: San Diego County Air Pollution Control District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the San Diego County Air Pollution Control District.

Date of Government Version: 08/21/2024
Date Data Arrived at EDR: 08/28/2024
Date Made Active in Reports: 11/13/2024
Number of Days to Update: 77

Source: San Diego County Air Pollution Control District
Telephone: 858-586-2616
Last EDR Contact: 05/02/2025
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN MENDOCINO: Mendocino County Air Quality Management District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the Mendocino County Air Quality Management District.

Date of Government Version: 08/26/2024
Date Data Arrived at EDR: 09/03/2024
Date Made Active in Reports: 11/13/2024
Number of Days to Update: 71
Source: Mendocino County Air Quality Management District
Telephone: 707-463-4354
Last EDR Contact: 05/02/2025
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN SACRAMENTO: Sacramento Metropolitan Air Quality Management DistrictDrycleaner Facility Listing
A listing of drycleaner facility locations, for the Sacramento Metropolitan Air Quality Management District.

Date of Government Version: 09/03/2024
Date Data Arrived at EDR: 09/05/2024
Date Made Active in Reports: 11/13/2024
Number of Days to Update: 69
Source: Sacramento Metropolitan Air Quality Management District
Telephone: 916-874-3958
Last EDR Contact: 05/02/2025
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN IMPERIAL: Imperial County Air Pollution Control District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the Imperial County Air Pollution Control District

Date of Government Version: 10/02/2024
Date Data Arrived at EDR: 10/03/2024
Date Made Active in Reports: 12/20/2024
Number of Days to Update: 78
Source: Imperial County Air Pollution Control District
Telephone: 442-265-1800
Last EDR Contact: 05/02/2025
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN SAN LUIS OB: San Luis Obispo County Air Pollution Control District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the San Luis Obispo County Air Pollution Control District.

Date of Government Version: 01/03/2024
Date Data Arrived at EDR: 01/04/2024
Date Made Active in Reports: 03/20/2024
Number of Days to Update: 76
Source: San Luis Obispo County Air Pollution Control District
Telephone: 805-781-5756
Last EDR Contact: 05/02/2025
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN PLACER: Placer County Air Quality Management District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the Placer County Air Quality Management District.

Date of Government Version: 05/15/2023
Date Data Arrived at EDR: 05/17/2023
Date Made Active in Reports: 08/14/2023
Number of Days to Update: 89
Source: Placer County Air Quality Management District
Telephone: 530-745-2335
Last EDR Contact: 08/21/2024
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

EMI: Emissions Inventory Data
Toxics and criteria pollutant emissions data collected by the ARB and local air pollution agencies.

Date of Government Version: 12/31/2023
Date Data Arrived at EDR: 03/11/2025
Date Made Active in Reports: 05/23/2025
Number of Days to Update: 73
Source: California Air Resources Board
Telephone: 916-322-2990
Last EDR Contact: 06/12/2025
Next Scheduled EDR Contact: 09/22/2025
Data Release Frequency: Varies

ENF: Enforcement Action Listing
A listing of Water Board Enforcement Actions. Formal is everything except Oral/Verbal Communication, Notice of Violation, Expedited Payment Letter, and Staff Enforcement Letter.

Date of Government Version: 01/13/2025
Date Data Arrived at EDR: 01/14/2025
Date Made Active in Reports: 03/28/2025
Number of Days to Update: 73
Source: State Water Resoruces Control Board
Telephone: 916-445-9379
Last EDR Contact: 04/15/2025
Next Scheduled EDR Contact: 07/28/2025
Data Release Frequency: Varies

FIN ASSURANCE 1: Financial Assurance Information Listing
Financial Assurance information

Date of Government Version: 01/09/2025
Date Data Arrived at EDR: 01/14/2025
Date Made Active in Reports: 03/28/2025
Number of Days to Update: 73

Source: Department of Toxic Substances Control
Telephone: 916-255-3628
Last EDR Contact: 04/09/2025
Next Scheduled EDR Contact: 07/28/2025
Data Release Frequency: Varies

FIN ASSURANCE 2: Financial Assurance Information Listing
A listing of financial assurance information for solid waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 01/31/2025
Date Data Arrived at EDR: 02/13/2025
Date Made Active in Reports: 05/05/2025
Number of Days to Update: 81

Source: California Integrated Waste Management Board
Telephone: 916-341-6066
Last EDR Contact: 04/30/2025
Next Scheduled EDR Contact: 08/18/2025
Data Release Frequency: Varies

ICE: Inspection, Compliance and Enforcement
Contains data pertaining to the Permitted Facilities with Inspections / Enforcements sites tracked in Envirostor.

Date of Government Version: 02/10/2025
Date Data Arrived at EDR: 02/11/2025
Date Made Active in Reports: 04/28/2025
Number of Days to Update: 76

Source: Department of Toxic Subsances Control
Telephone: 877-786-9427
Last EDR Contact: 05/13/2025
Next Scheduled EDR Contact: 08/25/2025
Data Release Frequency: Quarterly

HIST CORTESE: Hazardous Waste & Substance Site List
The sites for the list are designated by the State Water Resource Control Board [LUST], the Integrated Waste Board [SWF/LS], and the Department of Toxic Substances Control [CALSITES]. This listing is no longer updated by the state agency.

Date of Government Version: 04/01/2001
Date Data Arrived at EDR: 01/22/2009
Date Made Active in Reports: 04/08/2009
Number of Days to Update: 76

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 01/22/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

HWP: EnviroStor Permitted Facilities Listing
Detailed information on permitted hazardous waste facilities and corrective action ("cleanups") tracked in EnviroStor.

Date of Government Version: 02/10/2025
Date Data Arrived at EDR: 02/11/2025
Date Made Active in Reports: 04/28/2025
Number of Days to Update: 76

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 05/13/2025
Next Scheduled EDR Contact: 08/25/2025
Data Release Frequency: Quarterly

HWT: Registered Hazardous Waste Transporter Database
A listing of hazardous waste transporters. In California, unless specifically exempted, it is unlawful for any person to transport hazardous wastes unless the person holds a valid registration issued by DTSC. A hazardous waste transporter registration is valid for one year and is assigned a unique registration number.

Date of Government Version: 12/27/2024
Date Data Arrived at EDR: 12/27/2024
Date Made Active in Reports: 03/13/2025
Number of Days to Update: 76

Source: Department of Toxic Substances Control
Telephone: 916-440-7145
Last EDR Contact: 04/01/2025
Next Scheduled EDR Contact: 07/14/2025
Data Release Frequency: Quarterly

HWTS: Hazardous Waste Tracking System

DTSC maintains the Hazardous Waste Tracking System that stores ID number information since the early 1980s and manifest data since 1993. The system collects both manifest copies from the generator and destination facility.

Date of Government Version: 07/19/2024
Date Data Arrived at EDR: 07/30/2024
Date Made Active in Reports: 08/28/2024
Number of Days to Update: 29

Source: Department of Toxic Substances Control
Telephone: 916-324-2444
Last EDR Contact: 03/31/2025
Next Scheduled EDR Contact: 07/14/2025
Data Release Frequency: Varies

HAZNET: Facility and Manifest Data

Facility and Manifest Data. The data is extracted from the copies of hazardous waste manifests received each year by the DTSC. The annual volume of manifests is typically 700,000 - 1,000,000 annually, representing approximately 350,000 - 500,000 shipments. Data are from the manifests submitted without correction, and therefore many contain some invalid values for data elements such as generator ID, TSD ID, waste category, and disposal method. This database begins with calendar year 1993.

Date of Government Version: 12/31/2024
Date Data Arrived at EDR: 01/03/2025
Date Made Active in Reports: 03/19/2025
Number of Days to Update: 75

Source: California Environmental Protection Agency
Telephone: 916-255-1136
Last EDR Contact: 04/01/2025
Next Scheduled EDR Contact: 07/14/2025
Data Release Frequency: Annually

MINES: Mines Site Location Listing

A listing of mine site locations from the Office of Mine Reclamation.

Date of Government Version: 03/03/2025
Date Data Arrived at EDR: 03/04/2025
Date Made Active in Reports: 05/21/2025
Number of Days to Update: 78

Source: Department of Conservation
Telephone: 916-322-1080
Last EDR Contact: 05/29/2025
Next Scheduled EDR Contact: 09/15/2025
Data Release Frequency: Quarterly

MWMP: Medical Waste Management Program Listing

The Medical Waste Management Program (MWMP) ensures the proper handling and disposal of medical waste by permitting and inspecting medical waste Offsite Treatment Facilities (PDF) and Transfer Stations (PDF) throughout the state. MWMP also oversees all Medical Waste Transporters.

Date of Government Version: 01/02/2025
Date Data Arrived at EDR: 02/25/2025
Date Made Active in Reports: 05/07/2025
Number of Days to Update: 71

Source: Department of Public Health
Telephone: 916-558-1784
Last EDR Contact: 05/23/2025
Next Scheduled EDR Contact: 09/08/2025
Data Release Frequency: Varies

NPDES: NPDES Permits Listing

A listing of NPDES permits, including stormwater.

Date of Government Version: 02/03/2025
Date Data Arrived at EDR: 02/04/2025
Date Made Active in Reports: 04/18/2025
Number of Days to Update: 73

Source: State Water Resources Control Board
Telephone: 916-445-9379
Last EDR Contact: 05/06/2025
Next Scheduled EDR Contact: 08/18/2025
Data Release Frequency: Quarterly

PEST LIC: Pesticide Regulation Licenses Listing

A listing of licenses and certificates issued by the Department of Pesticide Regulation. The DPR issues licenses and/or certificates to: Persons and businesses that apply or sell pesticides; Pest control dealers and brokers; Persons who advise on agricultural pesticide applications.

Date of Government Version: 02/24/2025
Date Data Arrived at EDR: 02/25/2025
Date Made Active in Reports: 05/07/2025
Number of Days to Update: 71

Source: Department of Pesticide Regulation
Telephone: 916-445-4038
Last EDR Contact: 05/23/2025
Next Scheduled EDR Contact: 09/08/2025
Data Release Frequency: Quarterly

PROC: Certified Processors Database
A listing of certified processors.

Date of Government Version: 03/03/2025
Date Data Arrived at EDR: 03/04/2025
Date Made Active in Reports: 05/22/2025
Number of Days to Update: 79
Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 05/30/2025
Next Scheduled EDR Contact: 09/15/2025
Data Release Frequency: Quarterly

NOTIFY 65: Proposition 65 Records
Listings of all Proposition 65 incidents reported to counties by the State Water Resources Control Board and the Regional Water Quality Control Board. This database is no longer updated by the reporting agency.

Date of Government Version: 03/05/2025
Date Data Arrived at EDR: 03/06/2025
Date Made Active in Reports: 05/22/2025
Number of Days to Update: 77
Source: State Water Resources Control Board
Telephone: 916-445-3846
Last EDR Contact: 06/03/2025
Next Scheduled EDR Contact: 09/22/2025
Data Release Frequency: No Update Planned

SAN JOSE HAZMAT: Hazardous Material Facilities
Hazardous material facilities, including underground storage tank sites.

Date of Government Version: 11/03/2020
Date Data Arrived at EDR: 11/05/2020
Date Made Active in Reports: 01/26/2021
Number of Days to Update: 82
Source: City of San Jose Fire Department
Telephone: 408-535-7694
Last EDR Contact: 04/23/2025
Next Scheduled EDR Contact: 08/11/2025
Data Release Frequency: Annually

UIC: UIC Listing
A listing of wells identified as underground injection wells, in the California Oil and Gas Wells database.

Date of Government Version: 02/27/2025
Date Data Arrived at EDR: 03/04/2025
Date Made Active in Reports: 05/22/2025
Number of Days to Update: 79
Source: Deaprtment of Conservation
Telephone: 916-445-2408
Last EDR Contact: 05/29/2025
Next Scheduled EDR Contact: 09/15/2025
Data Release Frequency: Varies

UIC GEO: Underground Injection Control Sites (GEOTRACKER)
Underground control injection sites

Date of Government Version: 02/24/2025
Date Data Arrived at EDR: 02/24/2025
Date Made Active in Reports: 02/26/2025
Number of Days to Update: 2
Source: State Water Resource Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/02/2025
Next Scheduled EDR Contact: 09/15/2025
Data Release Frequency: Varies

WASTEWATER PITS: Oil Wastewater Pits Listing
Water officials discovered that oil producers have been dumping chemical-laden wastewater into hundreds of unlined pits that are operating without proper permits. Inspections completed by the Central Valley Regional Water Quality Control Board revealed the existence of previously unidentified waste sites. The water boards review found that more than one-third of the region's active disposal pits are operating without permission.

Date of Government Version: 02/11/2021
Date Data Arrived at EDR: 07/01/2021
Date Made Active in Reports: 09/29/2021
Number of Days to Update: 90
Source: RWQCB, Central Valley Region
Telephone: 559-445-5577
Last EDR Contact: 04/03/2025
Next Scheduled EDR Contact: 07/14/2025
Data Release Frequency: Varies

WDS: Waste Discharge System
Sites which have been issued waste discharge requirements.

Date of Government Version: 06/19/2007
Date Data Arrived at EDR: 06/20/2007
Date Made Active in Reports: 06/29/2007
Number of Days to Update: 9

Source: State Water Resources Control Board
Telephone: 916-341-5227
Last EDR Contact: 05/07/2025
Next Scheduled EDR Contact: 08/25/2025
Data Release Frequency: No Update Planned

WIP: Well Investigation Program Case List
Well Investigation Program case in the San Gabriel and San Fernando Valley area.

Date of Government Version: 07/03/2009
Date Data Arrived at EDR: 07/21/2009
Date Made Active in Reports: 08/03/2009
Number of Days to Update: 13

Source: Los Angeles Water Quality Control Board
Telephone: 213-576-6726
Last EDR Contact: 06/10/2025
Next Scheduled EDR Contact: 09/29/2025
Data Release Frequency: No Update Planned

MILITARY PRIV SITES: Military Privatized Sites (GEOTRACKER)
Military privatized sites

Date of Government Version: 02/24/2025
Date Data Arrived at EDR: 02/24/2025
Date Made Active in Reports: 02/26/2025
Number of Days to Update: 2

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/02/2025
Next Scheduled EDR Contact: 09/15/2025
Data Release Frequency: Varies

PROJECT: Project Sites (GEOTRACKER)
Projects sites

Date of Government Version: 02/24/2025
Date Data Arrived at EDR: 02/24/2025
Date Made Active in Reports: 02/26/2025
Number of Days to Update: 2

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/02/2025
Next Scheduled EDR Contact: 09/15/2025
Data Release Frequency: Varies

WDR: Waste Discharge Requirements Listing
In general, the Waste Discharge Requirements (WDRs) Program (sometimes also referred to as the "Non Chapter 15 (Non 15) Program") regulates point discharges that are exempt pursuant to Subsection 20090 of Title 27 and not subject to the Federal Water Pollution Control Act. Exemptions from Title 27 may be granted for nine categories of discharges (e.g., sewage, wastewater, etc.) that meet, and continue to meet, the preconditions listed for each specific exemption. The scope of the WDRs Program also includes the discharge of wastes classified as inert, pursuant to section 20230 of Title 27.

Date of Government Version: 03/03/2025
Date Data Arrived at EDR: 03/04/2025
Date Made Active in Reports: 05/23/2025
Number of Days to Update: 80

Source: State Water Resources Control Board
Telephone: 916-341-5810
Last EDR Contact: 05/30/2025
Next Scheduled EDR Contact: 09/15/2025
Data Release Frequency: Quarterly

CIWQS: California Integrated Water Quality System
The California Integrated Water Quality System (CIWQS) is a computer system used by the State and Regional Water Quality Control Boards to track information about places of environmental interest, manage permits and other orders, track inspections, and manage violations and enforcement activities.

Date of Government Version: 05/06/2025
Date Data Arrived at EDR: 05/06/2025
Date Made Active in Reports: 05/07/2025
Number of Days to Update: 1

Source: State Water Resources Control Board
Telephone: 866-794-4977
Last EDR Contact: 05/06/2025
Next Scheduled EDR Contact: 09/08/2025
Data Release Frequency: Varies

CERS: CalEPA Regulated Site Portal Data
The CalEPA Regulated Site Portal database combines data about environmentally regulated sites and facilities in California into a single database. It combines data from a variety of state and federal databases, and provides an overview of regulated activities across the spectrum of environmental programs for any given location in California. These activities include hazardous materials and waste, state and federal cleanups, impacted ground and surface waters, and toxic materials

Date of Government Version: 01/12/2025
Date Data Arrived at EDR: 01/14/2025
Date Made Active in Reports: 03/28/2025
Number of Days to Update: 73

Source: California Environmental Protection Agency
Telephone: 916-323-2514
Last EDR Contact: 04/15/2025
Next Scheduled EDR Contact: 07/28/2025
Data Release Frequency: Varies

NON-CASE INFO: Non-Case Information Sites (GEOTRACKER)
Non-Case Information sites

Date of Government Version: 02/24/2025
Date Data Arrived at EDR: 02/24/2025
Date Made Active in Reports: 02/26/2025
Number of Days to Update: 2

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/02/2025
Next Scheduled EDR Contact: 09/15/2025
Data Release Frequency: Varies

OTHER OIL GAS: Other Oil & Gas Projects Sites (GEOTRACKER)
Other Oil & Gas Projects sites

Date of Government Version: 02/24/2025
Date Data Arrived at EDR: 02/24/2025
Date Made Active in Reports: 02/26/2025
Number of Days to Update: 2

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/02/2025
Next Scheduled EDR Contact: 09/15/2025
Data Release Frequency: Varies

PROD WATER PONDS: Produced Water Ponds Sites (GEOTRACKER)
Produced water ponds sites

Date of Government Version: 02/24/2025
Date Data Arrived at EDR: 02/24/2025
Date Made Active in Reports: 02/26/2025
Number of Days to Update: 2

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/02/2025
Next Scheduled EDR Contact: 09/15/2025
Data Release Frequency: Varies

SAMPLING POINT: Sampling Point ? Public Sites (GEOTRACKER)
Sampling point - public sites

Date of Government Version: 02/24/2025
Date Data Arrived at EDR: 02/24/2025
Date Made Active in Reports: 02/26/2025
Number of Days to Update: 2

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/02/2025
Next Scheduled EDR Contact: 09/15/2025
Data Release Frequency: Varies

WELL STIM PROJ: Well Stimulation Project (GEOTRACKER)
Includes areas of groundwater monitoring plans, a depiction of the monitoring network, and the facilities, boundaries, and subsurface characteristics of the oilfield and the features (oil and gas wells, produced water ponds, UIC wells, water supply wells, etc?) being monitored

Date of Government Version: 02/24/2025
Date Data Arrived at EDR: 02/24/2025
Date Made Active in Reports: 02/26/2025
Number of Days to Update: 2

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/02/2025
Next Scheduled EDR Contact: 09/15/2025
Data Release Frequency: Varies

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP: EDR Proprietary Manufactured Gas Plants
The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

EDR Hist Auto: EDR Exclusive Historical Auto Stations

EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR Hist Cleaner: EDR Exclusive Historical Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA LF: Recovered Government Archive Solid Waste Facilities List

The EDR Recovered Government Archive Landfill database provides a list of landfills derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Resources Recycling and Recovery in California.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 01/13/2014
Number of Days to Update: 196

Source: Department of Resources Recycling and Recovery
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

RGA LUST: Recovered Government Archive Leaking Underground Storage Tank

The EDR Recovered Government Archive Leaking Underground Storage Tank database provides a list of LUST incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the State Water Resources Control Board in California.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 12/30/2013
Number of Days to Update: 182

Source: State Water Resources Control Board
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

COUNTY RECORDS

ALAMEDA COUNTY:

CS ALAMEDA: Contaminated Sites
A listing of contaminated sites overseen by the Toxic Release Program (oil and groundwater contamination from chemical releases and spills) and the Leaking Underground Storage Tank Program (soil and ground water contamination from leaking petroleum USTs).

Date of Government Version: 01/09/2019
Date Data Arrived at EDR: 01/11/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 53

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 03/26/2025
Next Scheduled EDR Contact: 07/14/2025
Data Release Frequency: Semi-Annually

UST ALAMEDA: Underground Tanks
Underground storage tank sites located in Alameda county.

Date of Government Version: 12/26/2023
Date Data Arrived at EDR: 12/26/2023
Date Made Active in Reports: 03/19/2024
Number of Days to Update: 84

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 03/26/2025
Next Scheduled EDR Contact: 07/14/2025
Data Release Frequency: Semi-Annually

AMADOR COUNTY:

CUPA AMADOR: CUPA Facility List
Cupa Facility List

Date of Government Version: 04/27/2023
Date Data Arrived at EDR: 04/27/2023
Date Made Active in Reports: 07/13/2023
Number of Days to Update: 77

Source: Amador County Environmental Health
Telephone: 209-223-6439
Last EDR Contact: 04/23/2025
Next Scheduled EDR Contact: 08/11/2025
Data Release Frequency: Varies

BUTTE COUNTY:

CUPA BUTTE: CUPA Facility Listing
Cupa facility list.

Date of Government Version: 04/21/2017
Date Data Arrived at EDR: 04/25/2017
Date Made Active in Reports: 08/09/2017
Number of Days to Update: 106

Source: Public Health Department
Telephone: 530-538-7149
Last EDR Contact: 03/26/2025
Next Scheduled EDR Contact: 07/14/2025
Data Release Frequency: No Update Planned

CALVERAS COUNTY:

CUPA CALVERAS: CUPA Facility Listing
Cupa Facility Listing

Date of Government Version: 03/17/2025
Date Data Arrived at EDR: 03/19/2025
Date Made Active in Reports: 05/30/2025
Number of Days to Update: 72

Source: Calveras County Environmental Health
Telephone: 209-754-6399
Last EDR Contact: 06/11/2025
Next Scheduled EDR Contact: 09/29/2025
Data Release Frequency: Quarterly

COLUSA COUNTY:

CUPA COLUSA: CUPA Facility List
Cupa facility list.

Date of Government Version: 04/06/2020
Date Data Arrived at EDR: 04/23/2020
Date Made Active in Reports: 07/10/2020
Number of Days to Update: 78

Source: Health & Human Services
Telephone: 530-458-0396
Last EDR Contact: 04/23/2025
Next Scheduled EDR Contact: 08/11/2025
Data Release Frequency: Semi-Annually

CONTRA COSTA COUNTY:

SL CONTRA COSTA: Site List
List includes sites from the underground tank, hazardous waste generator and business plan/2185 programs.

Date of Government Version: 01/16/2025
Date Data Arrived at EDR: 01/22/2025
Date Made Active in Reports: 04/03/2025
Number of Days to Update: 71

Source: Contra Costa Health Services Department
Telephone: 925-646-2286
Last EDR Contact: 04/16/2025
Next Scheduled EDR Contact: 08/04/2025
Data Release Frequency: Semi-Annually

DEL NORTE COUNTY:

CUPA DEL NORTE: CUPA Facility List
Cupa Facility list

Date of Government Version: 02/05/2025
Date Data Arrived at EDR: 02/12/2025
Date Made Active in Reports: 05/02/2025
Number of Days to Update: 79

Source: Del Norte County Environmental Health Division
Telephone: 707-465-0426
Last EDR Contact: 04/16/2025
Next Scheduled EDR Contact: 08/04/2025
Data Release Frequency: Varies

EL DORADO COUNTY:

CUPA EL DORADO: CUPA Facility List
CUPA facility list.

Date of Government Version: 08/08/2022
Date Data Arrived at EDR: 08/09/2022
Date Made Active in Reports: 09/01/2022
Number of Days to Update: 23

Source: El Dorado County Environmental Management Department
Telephone: 530-621-6623
Last EDR Contact: 04/16/2025
Next Scheduled EDR Contact: 08/04/2025
Data Release Frequency: Varies

FRESNO COUNTY:

CUPA FRESNO: CUPA Resources List
Certified Unified Program Agency. CUPA's are responsible for implementing a unified hazardous materials and hazardous waste management regulatory program. The agency provides oversight of businesses that deal with hazardous materials, operate underground storage tanks or aboveground storage tanks.

Date of Government Version: 06/28/2021
Date Data Arrived at EDR: 12/21/2021
Date Made Active in Reports: 03/03/2022
Number of Days to Update: 72

Source: Dept. of Community Health
Telephone: 559-445-3271
Last EDR Contact: 03/19/2025
Next Scheduled EDR Contact: 07/07/2025
Data Release Frequency: Semi-Annually

GLENN COUNTY:

CUPA GLENN: CUPA Facility List
Cupa facility list

Date of Government Version: 01/22/2018
Date Data Arrived at EDR: 01/24/2018
Date Made Active in Reports: 03/14/2018
Number of Days to Update: 49

Source: Glenn County Air Pollution Control District
Telephone: 830-934-6500
Last EDR Contact: 04/09/2025
Next Scheduled EDR Contact: 07/28/2025
Data Release Frequency: No Update Planned

HUMBOLDT COUNTY:

CUPA HUMBOLDT: CUPA Facility List
CUPA facility list.

Date of Government Version: 08/12/2021
Date Data Arrived at EDR: 08/12/2021
Date Made Active in Reports: 11/08/2021
Number of Days to Update: 88

Source: Humboldt County Environmental Health
Telephone: N/A
Last EDR Contact: 05/07/2025
Next Scheduled EDR Contact: 08/25/2025
Data Release Frequency: Semi-Annually

IMPERIAL COUNTY:

CUPA IMPERIAL: CUPA Facility List
Cupa facility list.

Date of Government Version: 01/09/2025
Date Data Arrived at EDR: 01/14/2025
Date Made Active in Reports: 03/28/2025
Number of Days to Update: 73

Source: San Diego Border Field Office
Telephone: 760-339-2777
Last EDR Contact: 04/09/2025
Next Scheduled EDR Contact: 07/28/2025
Data Release Frequency: Varies

INYO COUNTY:

CUPA INYO: CUPA Facility List
Cupa facility list.

Date of Government Version: 04/02/2018
Date Data Arrived at EDR: 04/03/2018
Date Made Active in Reports: 06/14/2018
Number of Days to Update: 72

Source: Inyo County Environmental Health Services
Telephone: 760-878-0238
Last EDR Contact: 05/07/2025
Next Scheduled EDR Contact: 08/25/2025
Data Release Frequency: Varies

KERN COUNTY:

CUPA KERN: CUPA Facility List
A listing of sites included in the Kern County Hazardous Material Business Plan.

Date of Government Version: 01/27/2025
Date Data Arrived at EDR: 01/29/2025
Date Made Active in Reports: 01/31/2025
Number of Days to Update: 2

Source: Kern County Public Health
Telephone: 661-321-3000
Last EDR Contact: 04/23/2025
Next Scheduled EDR Contact: 08/11/2025
Data Release Frequency: Varies

UST KERN: Underground Storage Tank Sites & Tank Listing
Kern County Sites and Tanks Listing.

Date of Government Version: 01/27/2025
Date Data Arrived at EDR: 01/29/2025
Date Made Active in Reports: 01/31/2025
Number of Days to Update: 2

Source: Kern County Environment Health Services Department
Telephone: 661-862-8700
Last EDR Contact: 04/23/2025
Next Scheduled EDR Contact: 08/11/2025
Data Release Frequency: Quarterly

KINGS COUNTY:

CUPA KINGS: CUPA Facility List

A listing of sites included in the county's Certified Unified Program Agency database. California's Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

Date of Government Version: 12/03/2020
Date Data Arrived at EDR: 01/26/2021
Date Made Active in Reports: 04/14/2021
Number of Days to Update: 78

Source: Kings County Department of Public Health
Telephone: 559-584-1411
Last EDR Contact: 05/07/2025
Next Scheduled EDR Contact: 08/25/2025
Data Release Frequency: Varies

LAKE COUNTY:

CUPA LAKE: CUPA Facility List

Cupa facility list

Date of Government Version: 01/28/2025
Date Data Arrived at EDR: 01/29/2025
Date Made Active in Reports: 04/15/2025
Number of Days to Update: 76

Source: Lake County Environmental Health
Telephone: 707-263-1164
Last EDR Contact: 04/02/2025
Next Scheduled EDR Contact: 07/21/2025
Data Release Frequency: Varies

LASSEN COUNTY:

CUPA LASSEN: CUPA Facility List

Cupa facility list

Date of Government Version: 07/31/2020
Date Data Arrived at EDR: 08/21/2020
Date Made Active in Reports: 11/09/2020
Number of Days to Update: 80

Source: Lassen County Environmental Health
Telephone: 530-251-8528
Last EDR Contact: 04/09/2025
Next Scheduled EDR Contact: 07/28/2025
Data Release Frequency: Varies

LOS ANGELES COUNTY:

AOCONCERN: Key Areas of Concerns in Los Angeles County

San Gabriel Valley areas where VOC contamination is at or above the MCL as designated by region 9 EPA office. Date of Government Version: 3/30/2009 Exide Site area is a cleanup plan of lead-impacted soil surrounding the former Exide Facility as designated by the DTSC. Date of Government Version: 7/17/2017

Date of Government Version: 03/30/2009
Date Data Arrived at EDR: 03/31/2009
Date Made Active in Reports: 10/23/2009
Number of Days to Update: 206

Source: N/A
Telephone: N/A
Last EDR Contact: 06/03/2025
Next Scheduled EDR Contact: 09/22/2025
Data Release Frequency: No Update Planned

HMS LOS ANGELES: HMS: Street Number List
Industrial Waste and Underground Storage Tank Sites.

Date of Government Version: 01/21/2025
Date Data Arrived at EDR: 01/23/2025
Date Made Active in Reports: 04/03/2025
Number of Days to Update: 70

Source: Department of Public Works
Telephone: 626-458-3517
Last EDR Contact: 04/09/2025
Next Scheduled EDR Contact: 07/14/2025
Data Release Frequency: Semi-Annually

LF LOS ANGELES: List of Solid Waste Facilities
Solid Waste Facilities in Los Angeles County.

Date of Government Version: 01/06/2025
Date Data Arrived at EDR: 01/07/2025
Date Made Active in Reports: 03/19/2025
Number of Days to Update: 71

Source: La County Department of Public Works
Telephone: 818-458-5185
Last EDR Contact: 04/08/2025
Next Scheduled EDR Contact: 07/21/2025
Data Release Frequency: Varies

LF LOS ANGELES CITY: City of Los Angeles Landfills
Landfills owned and maintained by the City of Los Angeles.

Date of Government Version: 12/31/2023
Date Data Arrived at EDR: 10/03/2024
Date Made Active in Reports: 12/17/2024
Number of Days to Update: 75

Source: Engineering & Construction Division
Telephone: 213-473-7869
Last EDR Contact: 04/02/2025
Next Scheduled EDR Contact: 07/21/2025
Data Release Frequency: Varies

LOS ANGELES AST: Active & Inactive AST Inventory
A listing of active & inactive above ground petroleum storage tank site locations, located in the City of Los Angeles.

Date of Government Version: 06/01/2019
Date Data Arrived at EDR: 06/25/2019
Date Made Active in Reports: 08/22/2019
Number of Days to Update: 58

Source: Los Angeles Fire Department
Telephone: 213-978-3800
Last EDR Contact: 06/11/2025
Next Scheduled EDR Contact: 09/29/2025
Data Release Frequency: Varies

LOS ANGELES CO LF METHANE: Methane Producing Landfills
This data was created on April 30, 2012 to represent known disposal sites in Los Angeles County that may produce and emanate methane gas. The shapefile contains disposal sites within Los Angeles County that once accepted degradable refuse material. Information used to create this data was extracted from a landfill survey performed by County Engineers (Major Waste System Map, 1973) as well as historical records from CalRecycle, Regional Water Quality Control Board, and Los Angeles County Department of Public Health

Date of Government Version: 05/14/2024
Date Data Arrived at EDR: 07/09/2024
Date Made Active in Reports: 09/27/2024
Number of Days to Update: 80

Source: Los Angeles County Department of Public Works
Telephone: 626-458-6973
Last EDR Contact: 04/10/2025
Next Scheduled EDR Contact: 07/21/2025
Data Release Frequency: No Update Planned

LOS ANGELES HM: Active & Inactive Hazardous Materials Inventory
A listing of active & inactive hazardous materials facility locations, located in the City of Los Angeles.

Date of Government Version: 03/03/2025
Date Data Arrived at EDR: 03/18/2025
Date Made Active in Reports: 05/30/2025
Number of Days to Update: 73

Source: Los Angeles Fire Department
Telephone: 213-978-3800
Last EDR Contact: 06/12/2025
Next Scheduled EDR Contact: 09/29/2025
Data Release Frequency: Varies

LOS ANGELES UST: Active & Inactive UST Inventory
A listing of active & inactive underground storage tank site locations and underground storage tank historical sites, located in the City of Los Angeles.

Date of Government Version: 03/03/2025
Date Data Arrived at EDR: 03/18/2025
Date Made Active in Reports: 05/30/2025
Number of Days to Update: 73
Source: Los Angeles Fire Department
Telephone: 213-978-3800
Last EDR Contact: 06/12/2025
Next Scheduled EDR Contact: 09/29/2025
Data Release Frequency: Varies

SITE MIT LOS ANGELES: Site Mitigation LA County List
Industrial sites that have had some sort of spill or complaint.

Date of Government Version: 09/26/2024
Date Data Arrived at EDR: 01/14/2025
Date Made Active in Reports: 03/28/2025
Number of Days to Update: 73
Source: Community Health Services
Telephone: 323-890-7806
Last EDR Contact: 04/15/2025
Next Scheduled EDR Contact: 07/28/2025
Data Release Frequency: Annually

UST EL SEGUNDO: City of El Segundo Underground Storage Tank
Underground storage tank sites located in El Segundo city.

Date of Government Version: 01/21/2017
Date Data Arrived at EDR: 04/19/2017
Date Made Active in Reports: 05/10/2017
Number of Days to Update: 21
Source: City of El Segundo Fire Department
Telephone: 310-524-2236
Last EDR Contact: 04/02/2025
Next Scheduled EDR Contact: 07/21/2025
Data Release Frequency: No Update Planned

UST LONG BEACH: City of Long Beach Underground Storage Tank
Underground storage tank sites located in the city of Long Beach.

Date of Government Version: 04/22/2019
Date Data Arrived at EDR: 04/23/2019
Date Made Active in Reports: 06/27/2019
Number of Days to Update: 65
Source: City of Long Beach Fire Department
Telephone: 562-570-2563
Last EDR Contact: 04/09/2025
Next Scheduled EDR Contact: 07/28/2025
Data Release Frequency: Varies

UST TORRANCE: City of Torrance Underground Storage Tank
Underground storage tank sites located in the city of Torrance.

Date of Government Version: 10/15/2024
Date Data Arrived at EDR: 10/17/2024
Date Made Active in Reports: 01/07/2025
Number of Days to Update: 82
Source: City of Torrance Fire Department
Telephone: 310-618-2973
Last EDR Contact: 04/09/2025
Next Scheduled EDR Contact: 07/28/2025
Data Release Frequency: Semi-Annually

MADERA COUNTY:

CUPA MADERA: CUPA Facility List
A listing of sites included in the county's Certified Unified Program Agency database. California's Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

Date of Government Version: 08/10/2020
Date Data Arrived at EDR: 08/12/2020
Date Made Active in Reports: 10/23/2020
Number of Days to Update: 72
Source: Madera County Environmental Health
Telephone: 559-675-7823
Last EDR Contact: 05/07/2025
Next Scheduled EDR Contact: 08/25/2025
Data Release Frequency: Varies

MARIN COUNTY:

UST MARIN: Underground Storage Tank Sites
Currently permitted USTs in Marin County.

Date of Government Version: 09/26/2018
Date Data Arrived at EDR: 10/04/2018
Date Made Active in Reports: 11/02/2018
Number of Days to Update: 29

Source: Public Works Department Waste Management
Telephone: 415-473-6647
Last EDR Contact: 03/19/2025
Next Scheduled EDR Contact: 07/07/2025
Data Release Frequency: Semi-Annually

MENDOCINO COUNTY:

UST MENDOCINO: Mendocino County UST Database
A listing of underground storage tank locations in Mendocino County.

Date of Government Version: 09/22/2021
Date Data Arrived at EDR: 11/18/2021
Date Made Active in Reports: 11/22/2021
Number of Days to Update: 4

Source: Department of Public Health
Telephone: 707-463-4466
Last EDR Contact: 05/14/2025
Next Scheduled EDR Contact: 09/01/2025
Data Release Frequency: Annually

MERCED COUNTY:

CUPA MERCED: CUPA Facility List
CUPA facility list.

Date of Government Version: 10/08/2024
Date Data Arrived at EDR: 10/09/2024
Date Made Active in Reports: 10/31/2024
Number of Days to Update: 22

Source: Merced County Environmental Health
Telephone: 209-381-1094
Last EDR Contact: 05/07/2025
Next Scheduled EDR Contact: 08/25/2025
Data Release Frequency: Varies

MONO COUNTY:

CUPA MONO: CUPA Facility List
CUPA Facility List

Date of Government Version: 02/22/2021
Date Data Arrived at EDR: 03/02/2021
Date Made Active in Reports: 05/19/2021
Number of Days to Update: 78

Source: Mono County Health Department
Telephone: 760-932-5580
Last EDR Contact: 05/14/2025
Next Scheduled EDR Contact: 09/01/2025
Data Release Frequency: Varies

MONTEREY COUNTY:

CUPA MONTEREY: CUPA Facility Listing
CUPA Program listing from the Environmental Health Division.

Date of Government Version: 01/10/2025
Date Data Arrived at EDR: 01/14/2025
Date Made Active in Reports: 02/20/2025
Number of Days to Update: 37

Source: Monterey County Health Department
Telephone: 831-796-1297
Last EDR Contact: 03/19/2025
Next Scheduled EDR Contact: 07/07/2025
Data Release Frequency: Varies

NAPA COUNTY:

LUST NAPA: Sites With Reported Contamination
A listing of leaking underground storage tank sites located in Napa county.

Date of Government Version: 01/09/2017
Date Data Arrived at EDR: 01/11/2017
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 50

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 05/14/2025
Next Scheduled EDR Contact: 09/01/2025
Data Release Frequency: No Update Planned

UST NAPA: Closed and Operating Underground Storage Tank Sites
Underground storage tank sites located in Napa county.

Date of Government Version: 09/05/2019
Date Data Arrived at EDR: 09/09/2019
Date Made Active in Reports: 10/31/2019
Number of Days to Update: 52

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 05/14/2025
Next Scheduled EDR Contact: 09/01/2025
Data Release Frequency: No Update Planned

NEVADA COUNTY:

CUPA NEVADA: CUPA Facility List
CUPA facility list.

Date of Government Version: 01/27/2025
Date Data Arrived at EDR: 01/27/2025
Date Made Active in Reports: 02/03/2025
Number of Days to Update: 7

Source: Community Development Agency
Telephone: 530-265-1467
Last EDR Contact: 04/16/2025
Next Scheduled EDR Contact: 08/04/2025
Data Release Frequency: Varies

ORANGE COUNTY:

IND_SITE ORANGE: List of Industrial Site Cleanups Orange County
Petroleum and non-petroleum spills.

Date of Government Version: 02/05/2025
Date Data Arrived at EDR: 02/06/2025
Date Made Active in Reports: 04/28/2025
Number of Days to Update: 81

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 04/23/2025
Next Scheduled EDR Contact: 08/11/2025
Data Release Frequency: Annually

LUST ORANGE: List of Underground Storage Tank Cleanups
Orange County Underground Storage Tank Cleanups (LUST).

Date of Government Version: 02/05/2025
Date Data Arrived at EDR: 02/06/2025
Date Made Active in Reports: 04/28/2025
Number of Days to Update: 81

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 04/23/2025
Next Scheduled EDR Contact: 08/11/2025
Data Release Frequency: Quarterly

UST ORANGE: List of Underground Storage Tank Facilities
Orange County Underground Storage Tank Facilities (UST).

Date of Government Version: 02/05/2025
Date Data Arrived at EDR: 02/06/2025
Date Made Active in Reports: 03/14/2025
Number of Days to Update: 36

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 04/23/2025
Next Scheduled EDR Contact: 08/11/2025
Data Release Frequency: Quarterly

PLACER COUNTY:

MS PLACER: Master List of Facilities
List includes aboveground tanks, underground tanks and cleanup sites.

Date of Government Version: 02/20/2025
Date Data Arrived at EDR: 02/21/2025
Date Made Active in Reports: 05/07/2025
Number of Days to Update: 75
Source: Placer County Health and Human Services
Telephone: 530-745-2363
Last EDR Contact: 05/20/2025
Next Scheduled EDR Contact: 09/08/2025
Data Release Frequency: Semi-Annually

PLUMAS COUNTY:

CUPA PLUMAS: CUPA Facility List
Plumas County CUPA Program facilities.

Date of Government Version: 03/31/2019
Date Data Arrived at EDR: 04/23/2019
Date Made Active in Reports: 06/26/2019
Number of Days to Update: 64
Source: Plumas County Environmental Health
Telephone: 530-283-6355
Last EDR Contact: 04/09/2025
Next Scheduled EDR Contact: 07/28/2025
Data Release Frequency: Varies

RIVERSIDE COUNTY:

LUST RIVERSIDE: Listing of Underground Tank Cleanup Sites
Riverside County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 06/11/2024
Date Data Arrived at EDR: 06/12/2024
Date Made Active in Reports: 06/27/2024
Number of Days to Update: 15
Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 06/03/2025
Next Scheduled EDR Contact: 09/22/2025
Data Release Frequency: Quarterly

UST RIVERSIDE: Underground Storage Tank Tank List
Underground storage tank sites located in Riverside county.

Date of Government Version: 03/06/2025
Date Data Arrived at EDR: 03/07/2025
Date Made Active in Reports: 05/22/2025
Number of Days to Update: 76
Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 06/03/2025
Next Scheduled EDR Contact: 09/22/2025
Data Release Frequency: Quarterly

SACRAMENTO COUNTY:

CS SACRAMENTO: Toxic Site Clean-Up List
List of sites where unauthorized releases of potentially hazardous materials have occurred.

Date of Government Version: 11/07/2022
Date Data Arrived at EDR: 12/21/2022
Date Made Active in Reports: 03/16/2023
Number of Days to Update: 85
Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 03/19/2025
Next Scheduled EDR Contact: 07/07/2025
Data Release Frequency: Quarterly

ML SACRAMENTO: Master Hazardous Materials Facility List
Any business that has hazardous materials on site - hazardous material storage sites, underground storage tanks, waste generators.

Date of Government Version: 11/07/2022
Date Data Arrived at EDR: 12/09/2022
Date Made Active in Reports: 03/01/2023
Number of Days to Update: 82
Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 03/19/2025
Next Scheduled EDR Contact: 07/07/2025
Data Release Frequency: Quarterly

SAN BENITO COUNTY:

CUPA SAN BENITO: CUPA Facility List
Cupa facility list

Date of Government Version: 01/30/2025
Date Data Arrived at EDR: 01/31/2025
Date Made Active in Reports: 04/18/2025
Number of Days to Update: 77

Source: San Benito County Environmental Health
Telephone: N/A
Last EDR Contact: 04/23/2025
Next Scheduled EDR Contact: 08/11/2025
Data Release Frequency: Varies

SAN BERNARDINO COUNTY:

PERMITS SAN BERNARDINO: Hazardous Material Permits
This listing includes underground storage tanks, medical waste handlers/generators, hazardous materials handlers, hazardous waste generators, and waste oil generators/handlers.

Date of Government Version: 12/12/2024
Date Data Arrived at EDR: 12/16/2024
Date Made Active in Reports: 03/05/2025
Number of Days to Update: 79

Source: San Bernardino County Fire Department Hazardous Materials Division
Telephone: 909-387-3041
Last EDR Contact: 04/28/2025
Next Scheduled EDR Contact: 08/11/2025
Data Release Frequency: Quarterly

SAN DIEGO COUNTY:

HMMD SAN DIEGO: Hazardous Materials Management Division Database
The database includes: HE58 - This report contains the business name, site address, business phone number, establishment 'H' permit number, type of permit, and the business status. HE17 - In addition to providing the same information provided in the HE58 listing, HE17 provides inspection dates, violations received by the establishment, hazardous waste generated, the quantity, method of storage, treatment/disposal of waste and the hauler, and information on underground storage tanks. Unauthorized Release List - Includes a summary of environmental contamination cases in San Diego County (underground tank cases, non-tank cases, groundwater contamination, and soil contamination are included.)

Date of Government Version: 02/24/2025
Date Data Arrived at EDR: 02/25/2025
Date Made Active in Reports: 05/07/2025
Number of Days to Update: 71

Source: Hazardous Materials Management Division
Telephone: 619-338-2268
Last EDR Contact: 05/23/2025
Next Scheduled EDR Contact: 09/08/2025
Data Release Frequency: Quarterly

LF SAN DIEGO: Solid Waste Facilities
San Diego County Solid Waste Facilities.

Date of Government Version: 10/01/2024
Date Data Arrived at EDR: 01/15/2025
Date Made Active in Reports: 03/28/2025
Number of Days to Update: 72

Source: Department of Health Services
Telephone: 619-338-2209
Last EDR Contact: 04/09/2025
Next Scheduled EDR Contact: 07/28/2025
Data Release Frequency: Varies

SAN DIEGO CO LOP: Local Oversight Program Listing
A listing of all LOP release sites that are or were under the County of San Diego's jurisdiction. Included are closed or transferred cases, open cases, and cases that did not have a case type indicated. The cases without a case type are mostly complaints; however, some of them could be LOP cases.

Date of Government Version: 07/22/2021
Date Data Arrived at EDR: 10/19/2021
Date Made Active in Reports: 01/13/2022
Number of Days to Update: 86

Source: Department of Environmental Health
Telephone: 858-505-6874
Last EDR Contact: 04/09/2025
Next Scheduled EDR Contact: 07/28/2025
Data Release Frequency: Varies

SAN DIEGO CO SAM: Environmental Case Listing
The listing contains all underground tank release cases and projects pertaining to properties contaminated with hazardous substances that are actively under review by the Site Assessment and Mitigation Program.

Date of Government Version: 03/23/2010
Date Data Arrived at EDR: 06/15/2010
Date Made Active in Reports: 07/09/2010
Number of Days to Update: 24

Source: San Diego County Department of Environmental Health
Telephone: 619-338-2371
Last EDR Contact: 05/20/2025
Next Scheduled EDR Contact: 09/08/2025
Data Release Frequency: No Update Planned

SAN FRANCISCO COUNTY:

CUPA SAN FRANCISCO CO: CUPA Facility Listing
Cupa facilities

Date of Government Version: 01/28/2025
Date Data Arrived at EDR: 01/29/2025
Date Made Active in Reports: 04/16/2025
Number of Days to Update: 77

Source: San Francisco County Department of Environmental Health
Telephone: 415-252-3896
Last EDR Contact: 04/23/2025
Next Scheduled EDR Contact: 08/11/2025
Data Release Frequency: Varies

LUST SAN FRANCISCO: Local Oversite Facilities
A listing of leaking underground storage tank sites located in San Francisco county.

Date of Government Version: 09/19/2008
Date Data Arrived at EDR: 09/19/2008
Date Made Active in Reports: 09/29/2008
Number of Days to Update: 10

Source: Department Of Public Health San Francisco County
Telephone: 415-252-3920
Last EDR Contact: 04/23/2025
Next Scheduled EDR Contact: 08/11/2025
Data Release Frequency: No Update Planned

UST SAN FRANCISCO: Underground Storage Tank Information
Underground storage tank sites located in San Francisco county.

Date of Government Version: 01/28/2025
Date Data Arrived at EDR: 01/29/2025
Date Made Active in Reports: 04/16/2025
Number of Days to Update: 77

Source: Department of Public Health
Telephone: 415-252-3920
Last EDR Contact: 04/23/2025
Next Scheduled EDR Contact: 08/11/2025
Data Release Frequency: Quarterly

SAN FRANCISO COUNTY:

SAN FRANCISCO MAHER: Maher Ordinance Property Listing
A listing of properties that fall within a Maher Ordinance, for all of San Francisco. The Maher Ordinance requires San Francisco Department of Public Health (DPH) oversight for the characterization and mitigation of hazardous substances found in soil, soil vapor, and groundwater in areas designated within the Maher map. The Maher map includes areas with current or historical industrial use or zoning; areas within 100 feet of current or historical underground tanks; filled former Bay, marsh, or creek areas; or areas within 150 feet of a current or former elevated highway. City of San Francisco Planning.

Date of Government Version: 01/12/2025
Date Data Arrived at EDR: 01/14/2025
Date Made Active in Reports: 04/02/2025
Number of Days to Update: 78

Source: San Francisco Planning
Telephone: 628-652-7483
Last EDR Contact: 04/15/2025
Next Scheduled EDR Contact: 07/28/2025
Data Release Frequency: Varies

SAN JOAQUIN COUNTY:

UST SAN JOAQUIN: San Joaquin Co. UST
A listing of underground storage tank locations in San Joaquin county.

Date of Government Version: 06/22/2018
Date Data Arrived at EDR: 06/26/2018
Date Made Active in Reports: 07/11/2018
Number of Days to Update: 15

Source: Environmental Health Department
Telephone: N/A
Last EDR Contact: 06/03/2025
Next Scheduled EDR Contact: 09/22/2025
Data Release Frequency: Semi-Annually

SAN LUIS OBISPO COUNTY:

CUPA SAN LUIS OBISPO: CUPA Facility List
Cupa Facility List.

Date of Government Version: 02/06/2025
Date Data Arrived at EDR: 02/11/2025
Date Made Active in Reports: 04/28/2025
Number of Days to Update: 76

Source: San Luis Obispo County Public Health Department
Telephone: 805-781-5596
Last EDR Contact: 05/07/2025
Next Scheduled EDR Contact: 08/25/2025
Data Release Frequency: Varies

SAN MATEO COUNTY:

BI SAN MATEO: Business Inventory
List includes Hazardous Materials Business Plan, hazardous waste generators, and underground storage tanks.

Date of Government Version: 02/20/2020
Date Data Arrived at EDR: 02/20/2020
Date Made Active in Reports: 04/24/2020
Number of Days to Update: 64

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 05/28/2025
Next Scheduled EDR Contact: 09/15/2025
Data Release Frequency: Annually

LUST SAN MATEO: Fuel Leak List
A listing of leaking underground storage tank sites located in San Mateo county.

Date of Government Version: 03/29/2019
Date Data Arrived at EDR: 03/29/2019
Date Made Active in Reports: 05/29/2019
Number of Days to Update: 61

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 05/28/2025
Next Scheduled EDR Contact: 09/15/2025
Data Release Frequency: Semi-Annually

SANTA BARBARA COUNTY:

CUPA SANTA BARBARA: CUPA Facility Listing
CUPA Program Listing from the Environmental Health Services division.

Date of Government Version: 09/08/2011
Date Data Arrived at EDR: 09/09/2011
Date Made Active in Reports: 10/07/2011
Number of Days to Update: 28

Source: Santa Barbara County Public Health Department
Telephone: 805-686-8167
Last EDR Contact: 05/07/2025
Next Scheduled EDR Contact: 08/25/2025
Data Release Frequency: No Update Planned

SANTA CLARA COUNTY:

CUPA SANTA CLARA: Cupa Facility List
Cupa facility list

Date of Government Version: 02/14/2025
Date Data Arrived at EDR: 02/18/2025
Date Made Active in Reports: 05/02/2025
Number of Days to Update: 73
Source: Department of Environmental Health
Telephone: 408-918-1973
Last EDR Contact: 05/07/2025
Next Scheduled EDR Contact: 08/25/2025
Data Release Frequency: Varies

HIST LUST SANTA CLARA: HIST LUST - Fuel Leak Site Activity Report
A listing of open and closed leaking underground storage tanks. This listing is no longer updated by the county. Leaking underground storage tanks are now handled by the Department of Environmental Health.

Date of Government Version: 03/29/2005
Date Data Arrived at EDR: 03/30/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 22
Source: Santa Clara Valley Water District
Telephone: 408-265-2600
Last EDR Contact: 03/23/2009
Next Scheduled EDR Contact: 06/22/2009
Data Release Frequency: No Update Planned

LUST SANTA CLARA: LOP Listing
A listing of leaking underground storage tanks located in Santa Clara county.

Date of Government Version: 03/03/2014
Date Data Arrived at EDR: 03/05/2014
Date Made Active in Reports: 03/18/2014
Number of Days to Update: 13
Source: Department of Environmental Health
Telephone: 408-918-3417
Last EDR Contact: 05/14/2025
Next Scheduled EDR Contact: 09/01/2025
Data Release Frequency: No Update Planned

SANTA CRUZ COUNTY:

CUPA SANTA CRUZ: CUPA Facility List
CUPA facility listing.

Date of Government Version: 01/21/2017
Date Data Arrived at EDR: 02/22/2017
Date Made Active in Reports: 05/23/2017
Number of Days to Update: 90
Source: Santa Cruz County Environmental Health
Telephone: 831-464-2761
Last EDR Contact: 05/07/2025
Next Scheduled EDR Contact: 08/25/2025
Data Release Frequency: Varies

SITE MIT SANTA CRUZ: Site Mitigation Santa Cruz County List
Sites may become contaminated with toxic chemicals through illegal dumping or disposal, from leaking underground storage tanks, or through industrial or commercial activities.The goal of the site mitigation program is to protect the public health and the environment while facilitating completion of contaminated site clean-up projects in a timely manner.

Date of Government Version: 12/03/2018
Date Data Arrived at EDR: 06/23/2023
Date Made Active in Reports: 07/13/2023
Number of Days to Update: 20
Source: Santa Cruz Environmental Health Services
Telephone: 831-454-2761
Last EDR Contact: 05/07/2025
Next Scheduled EDR Contact: 08/25/2025
Data Release Frequency: Varies

SHASTA COUNTY:

CUPA SHASTA: CUPA Facility List
Cupa Facility List.

Date of Government Version: 06/15/2017
Date Data Arrived at EDR: 06/19/2017
Date Made Active in Reports: 08/09/2017
Number of Days to Update: 51
Source: Shasta County Department of Resource Management
Telephone: 530-225-5789
Last EDR Contact: 05/07/2025
Next Scheduled EDR Contact: 08/25/2025
Data Release Frequency: Varies

SOLANO COUNTY:

LUST SOLANO: Leaking Underground Storage Tanks
A listing of leaking underground storage tank sites located in Solano county.

Date of Government Version: 06/04/2019
Date Data Arrived at EDR: 06/06/2019
Date Made Active in Reports: 08/13/2019
Number of Days to Update: 68

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 05/14/2025
Next Scheduled EDR Contact: 09/01/2025
Data Release Frequency: Quarterly

UST SOLANO: Underground Storage Tanks
Underground storage tank sites located in Solano county.

Date of Government Version: 09/15/2021
Date Data Arrived at EDR: 09/16/2021
Date Made Active in Reports: 12/09/2021
Number of Days to Update: 84

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 05/14/2025
Next Scheduled EDR Contact: 09/01/2025
Data Release Frequency: Quarterly

SONOMA COUNTY:

CUPA SONOMA: Cupa Facility List
Cupa Facility list

Date of Government Version: 07/02/2021
Date Data Arrived at EDR: 07/06/2021
Date Made Active in Reports: 07/14/2021
Number of Days to Update: 8

Source: County of Sonoma Fire & Emergency Services Department
Telephone: 707-565-1174
Last EDR Contact: 06/10/2025
Next Scheduled EDR Contact: 09/29/2025
Data Release Frequency: Varies

LUST SONOMA: Leaking Underground Storage Tank Sites
A listing of leaking underground storage tank sites located in Sonoma county.

Date of Government Version: 06/30/2021
Date Data Arrived at EDR: 06/30/2021
Date Made Active in Reports: 09/24/2021
Number of Days to Update: 86

Source: Department of Health Services
Telephone: 707-565-6565
Last EDR Contact: 06/10/2025
Next Scheduled EDR Contact: 09/29/2025
Data Release Frequency: Quarterly

STANISLAUS COUNTY:

CUPA STANISLAUS: CUPA Facility List
Cupa facility list

Date of Government Version: 02/08/2022
Date Data Arrived at EDR: 02/10/2022
Date Made Active in Reports: 05/04/2022
Number of Days to Update: 83

Source: Stanislaus County Department of Ennvironmental Protection
Telephone: 209-525-6751
Last EDR Contact: 04/02/2025
Next Scheduled EDR Contact: 07/21/2025
Data Release Frequency: Varies

SUTTER COUNTY:

UST SUTTER: Underground Storage Tanks
Underground storage tank sites located in Sutter county.

Date of Government Version: 11/05/2024
Date Data Arrived at EDR: 11/20/2024
Date Made Active in Reports: 02/13/2025
Number of Days to Update: 85

Source: Sutter County Environmental Health Services
Telephone: 530-822-7500
Last EDR Contact: 05/14/2025
Next Scheduled EDR Contact: 09/01/2025
Data Release Frequency: Semi-Annually

TEHAMA COUNTY:

CUPA TEHAMA: CUPA Facility List
Cupa facilities

Date of Government Version: 02/11/2025
Date Data Arrived at EDR: 02/12/2025
Date Made Active in Reports: 05/02/2025
Number of Days to Update: 79

Source: Tehama County Department of Environmental Health
Telephone: 530-527-8020
Last EDR Contact: 05/20/2025
Next Scheduled EDR Contact: 08/11/2025
Data Release Frequency: Varies

TRINITY COUNTY:

CUPA TRINITY: CUPA Facility List
Cupa facility list

Date of Government Version: 01/09/2025
Date Data Arrived at EDR: 01/14/2025
Date Made Active in Reports: 03/28/2025
Number of Days to Update: 73

Source: Department of Toxic Substances Control
Telephone: 760-352-0381
Last EDR Contact: 04/09/2025
Next Scheduled EDR Contact: 07/28/2025
Data Release Frequency: Varies

TULARE COUNTY:

CUPA TULARE: CUPA Facility List
Cupa program facilities

Date of Government Version: 10/07/2022
Date Data Arrived at EDR: 10/07/2022
Date Made Active in Reports: 12/21/2022
Number of Days to Update: 75

Source: Tulare County Environmental Health Services Division
Telephone: 559-624-7400
Last EDR Contact: 04/23/2025
Next Scheduled EDR Contact: 08/11/2025
Data Release Frequency: Varies

TUOLUMNE COUNTY:

CUPA TUOLUMNE: CUPA Facility List
Cupa facility list

Date of Government Version: 04/23/2018
Date Data Arrived at EDR: 04/25/2018
Date Made Active in Reports: 06/25/2018
Number of Days to Update: 61

Source: Divison of Environmental Health
Telephone: 209-533-5633
Last EDR Contact: 04/09/2025
Next Scheduled EDR Contact: 07/28/2025
Data Release Frequency: Varies

VENTURA COUNTY:

BWT VENTURA: Business Plan, Hazardous Waste Producers, and Operating Underground Tanks
The BWT list indicates by site address whether the Environmental Health Division has Business Plan (B), Waste Producer (W), and/or Underground Tank (T) information.

Date of Government Version: 11/21/2024
Date Data Arrived at EDR: 01/21/2025
Date Made Active in Reports: 04/03/2025
Number of Days to Update: 72

Source: Ventura County Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 04/11/2025
Next Scheduled EDR Contact: 07/28/2025
Data Release Frequency: Quarterly

LF VENTURA: Inventory of Illegal Abandoned and Inactive Sites
Ventura County Inventory of Closed, Illegal Abandoned, and Inactive Sites.

Date of Government Version: 12/01/2011
Date Data Arrived at EDR: 12/01/2011
Date Made Active in Reports: 01/19/2012
Number of Days to Update: 49

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 03/19/2025
Next Scheduled EDR Contact: 07/07/2025
Data Release Frequency: No Update Planned

LUST VENTURA: Listing of Underground Tank Cleanup Sites
Ventura County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 05/29/2008
Date Data Arrived at EDR: 06/24/2008
Date Made Active in Reports: 07/31/2008
Number of Days to Update: 37

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 04/30/2025
Next Scheduled EDR Contact: 08/18/2025
Data Release Frequency: No Update Planned

MED WASTE VENTURA: Medical Waste Program List
To protect public health and safety and the environment from potential exposure to disease causing agents, the Environmental Health Division Medical Waste Program regulates the generation, handling, storage, treatment and disposal of medical waste throughout the County.

Date of Government Version: 04/01/2025
Date Data Arrived at EDR: 04/09/2025
Date Made Active in Reports: 04/23/2025
Number of Days to Update: 14

Source: Ventura County Resource Management Agency
Telephone: 805-654-2813
Last EDR Contact: 04/03/2025
Next Scheduled EDR Contact: 07/28/2025
Data Release Frequency: Quarterly

UST VENTURA: Underground Tank Closed Sites List
Ventura County Operating Underground Storage Tank Sites (UST)/Underground Tank Closed Sites List.

Date of Government Version: 01/27/2025
Date Data Arrived at EDR: 03/04/2025
Date Made Active in Reports: 05/23/2025
Number of Days to Update: 80

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 05/30/2025
Next Scheduled EDR Contact: 09/15/2025
Data Release Frequency: Quarterly

YOLO COUNTY:

UST YOLO: Underground Storage Tank Comprehensive Facility Report
Underground storage tank sites located in Yolo county.

Date of Government Version: 03/19/2025
Date Data Arrived at EDR: 03/25/2025
Date Made Active in Reports: 03/28/2025
Number of Days to Update: 3

Source: Yolo County Department of Health
Telephone: 530-666-8646
Last EDR Contact: 03/19/2025
Next Scheduled EDR Contact: 07/07/2025
Data Release Frequency: Annually

YUBA COUNTY:

CUPA YUBA: CUPA Facility List
CUPA facility listing for Yuba County.

Date of Government Version: 01/17/2025
Date Data Arrived at EDR: 01/22/2025
Date Made Active in Reports: 04/03/2025
Number of Days to Update: 71

Source: Yuba County Environmental Health Department
Telephone: 530-749-7523
Last EDR Contact: 04/16/2025
Next Scheduled EDR Contact: 08/04/2025
Data Release Frequency: Varies

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

CT MANIFEST: Hazardous Waste Manifest Data

Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 02/02/2025
Date Data Arrived at EDR: 02/04/2025
Date Made Active in Reports: 04/24/2025
Number of Days to Update: 79

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 05/06/2025
Next Scheduled EDR Contact: 08/18/2025
Data Release Frequency: No Update Planned

NJ MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2018
Date Data Arrived at EDR: 04/10/2019
Date Made Active in Reports: 05/16/2019
Number of Days to Update: 36

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 03/27/2025
Next Scheduled EDR Contact: 07/14/2025
Data Release Frequency: Annually

NY MANIFEST: Facility and Manifest Data

Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 12/31/2019
Date Data Arrived at EDR: 11/30/2023
Date Made Active in Reports: 12/01/2023
Number of Days to Update: 1

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 04/24/2025
Next Scheduled EDR Contact: 08/04/2025
Data Release Frequency: Quarterly

PA MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 06/30/2018
Date Data Arrived at EDR: 07/19/2019
Date Made Active in Reports: 09/10/2019
Number of Days to Update: 53

Source: Department of Environmental Protection
Telephone: 717-783-8990
Last EDR Contact: 04/03/2025
Next Scheduled EDR Contact: 07/21/2025
Data Release Frequency: Annually

RI MANIFEST: Manifest information

Hazardous waste manifest information

Date of Government Version: 12/31/2020
Date Data Arrived at EDR: 11/30/2021
Date Made Active in Reports: 02/18/2022
Number of Days to Update: 80

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 05/07/2025
Next Scheduled EDR Contact: 08/25/2025
Data Release Frequency: Annually

WI MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 05/31/2018
Date Data Arrived at EDR: 06/19/2019
Date Made Active in Reports: 09/03/2019
Number of Days to Update: 76

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 05/28/2025
Next Scheduled EDR Contact: 09/15/2025
Data Release Frequency: Annually

Oil/Gas Pipelines
Source: Endeavor Business Media
Petroleum Bundle (Crude Oil, Refined Products, Petrochemicals, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)) N = Natural Gas Bundle (Natural Gas, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)). This map includes information copyrighted by Endeavor Business Media. This information is provided on a best effort basis and Endeavor Business Media does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of Endeavor Business Media.

Electric Power Transmission Line Data
Source: Endeavor Business Media
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Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:
Source: American Hospital Association, Inc.
Telephone: 312-280-5991
The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing
Source: Centers for Medicare & Medicaid Services
Telephone: 410-786-3000
A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes
Source: National Institutes of Health
Telephone: 301-594-6248
Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Licensed Facilities
Source: Department of Social Services
Telephone: 916-657-4041

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.
Source: FEMA
Telephone: 877-336-2627
Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005, 2010 and 2015 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory
Source: Department of Fish and Wildlife
Telephone: 916-445-0411

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

STREET AND ADDRESS INFORMATION

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GEOCHECK ®- PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

LANCASTER PROPERTIES
44434 90TH ST E
LANCASTER, CA 93535

TARGET PROPERTY COORDINATES

Latitude (North):	34.691415 - 34° 41' 29.09''
Longitude (West):	117.969885 - 117° 58' 11.59''
Universal Tranverse Mercator:	Zone 11
UTM X (Meters):	411161.9
UTM Y (Meters):	3839054.5
Elevation:	2450 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	50005266 ALPINE BUTTE, CA
Version Date:	2021

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principle investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

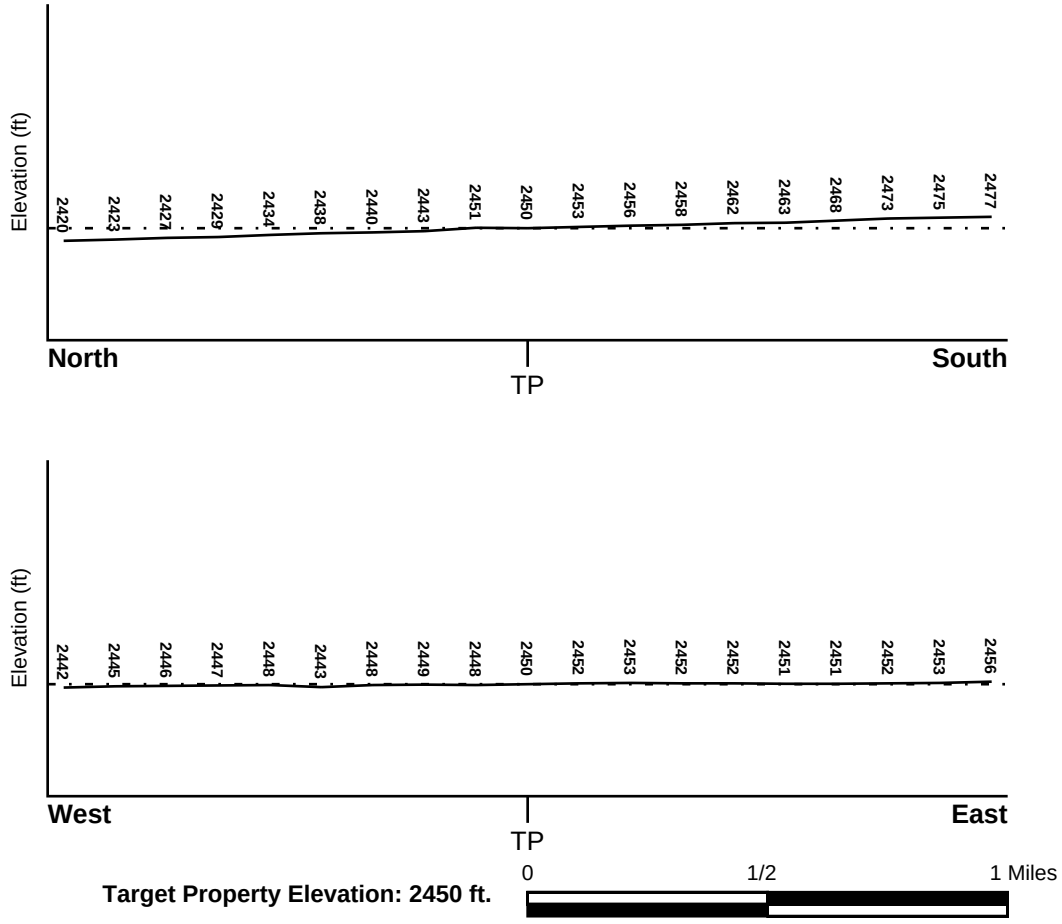
TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General NNW

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

Flood Plain Panel at Target Property	FEMA Source Type
06037C0475F	FEMA FIRM Flood data

Additional Panels in search area:	FEMA Source Type
06037C0465F	FEMA FIRM Flood data
06037C0462F	FEMA FIRM Flood data

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property	NWI Electronic Data Coverage
NOT AVAILABLE	YES - refer to the Overview Map and Detail Map

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Site-Specific Hydrogeological Data*:

Search Radius:	1.25 miles
Status:	Not found

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

MAP ID	LOCATION FROM TP	GENERAL DIRECTION GROUNDWATER FLOW
Not Reported		

* ©1996 Site−specific hydrogeological data gathered by CERCLIS Alerts, Inc., Bainbridge Island, WA. All rights reserved. All of the information and opinions presented are those of the cited EPA report(s), which were completed under a Comprehensive Environmental Response Compensation and Liability Information System (CERCLIS) investigation.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

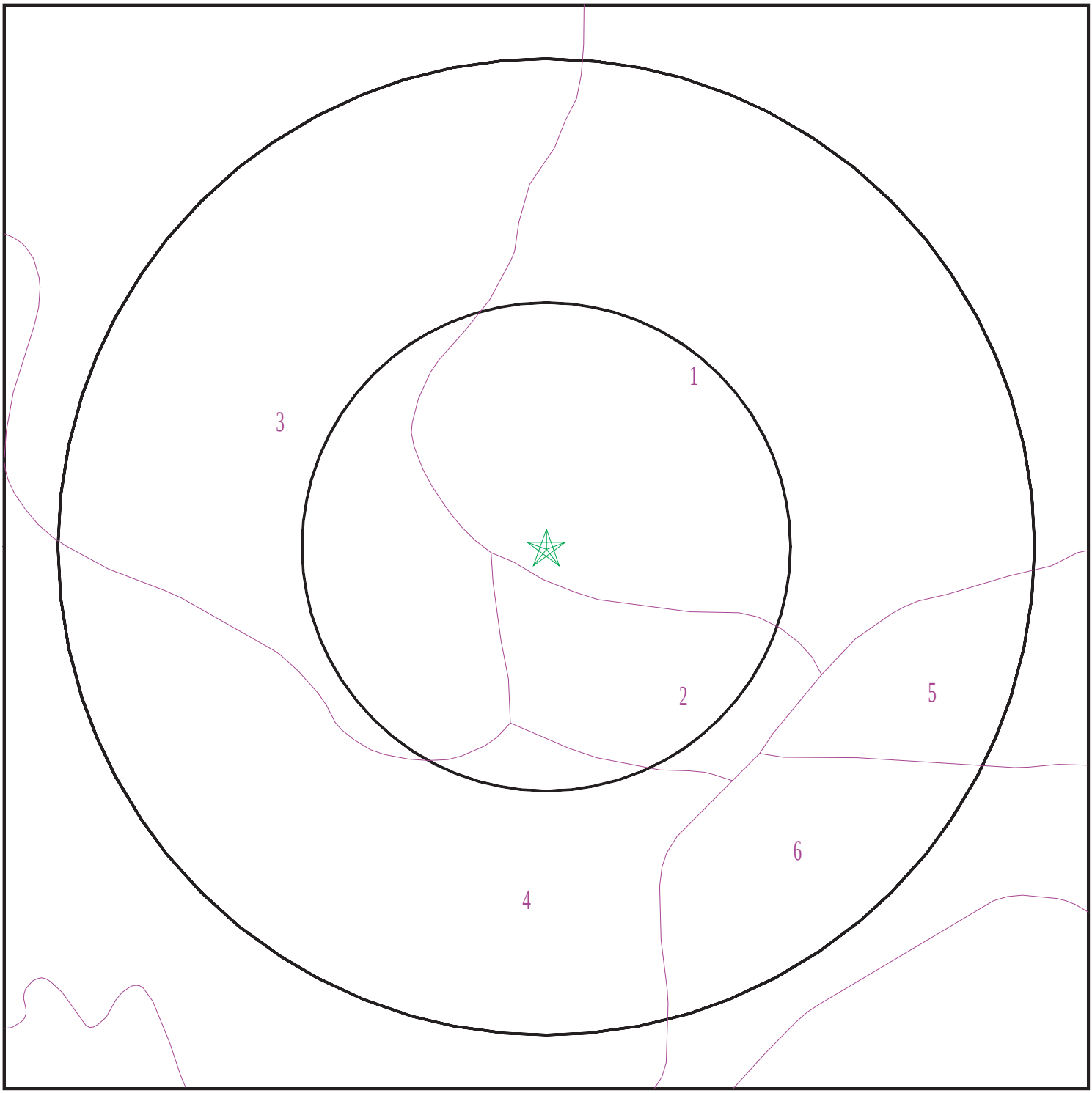
Era:	Cenozoic
System:	Quaternary
Series:	Quaternary
Code:	Q *(decoded above as Era, System & Series)*

GEOLOGIC AGE IDENTIFICATION

Category: Stratifed Sequence

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

SSURGO SOIL MAP - 8020014.2s



Target Property
SSURGO Soil
Water

0 1/16 1/8 1/4 Miles

N

SITE NAME:	Lancaster Properties	CLIENT:	NV5
ADDRESS:	44434 90TH ST E LANCASTER CA 93535	CONTACT:	Eric Fraske
		INQUIRY #:	8020014.2s
LAT/LONG:	34.691415 / 117.969885	DATE:	June 16, 2025 12:14 pm

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GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. The following information is based on Soil Conservation Service SSURGO data.

Soil Map ID: 1

Soil Component Name: Hesperia

Soil Surface Texture: loamy fine sand

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	7 inches	loamy fine sand	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 8.4 Min: 7.4
2	7 inches	53 inches	fine sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 8.4 Min: 7.4
3	53 inches	77 inches	sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 8.4 Min: 7.4

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Map ID: 2

Soil Component Name: Hesperia

Soil Surface Texture: fine sandy loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information

	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	3 inches	fine sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 8.4 Min: 7.4
2	3 inches	53 inches	fine sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 8.4 Min: 7.4
3	53 inches	77 inches	sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 8.4 Min: 7.4

Soil Map ID: 3

Soil Component Name: Rosamond

Soil Surface Texture: loamy fine sand

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information

	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	14 inches	loamy fine sand	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14 Min: 4	Max: 8.4 Min: 7.9
2	14 inches	59 inches	stratified loam to silty clay loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14 Min: 4	Max: 8.4 Min: 7.9

Soil Map ID: 4

Soil Component Name: Hesperia

Soil Surface Texture: loamy fine sand

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	7 inches	loamy fine sand	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 8.4 Min: 7.4
2	7 inches	53 inches	fine sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 8.4 Min: 7.4
3	53 inches	77 inches	sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 8.4 Min: 7.4

Soil Map ID: 5

Soil Component Name: Cajon

Soil Surface Texture: loamy sand

Hydrologic Group: Class A - High infiltration rates. Soils are deep, well drained to excessively drained sands and gravels.

Soil Drainage Class: Excessively drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	9 inches	loamy sand	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 8.4 Min: 7.4
2	9 inches	59 inches	sand	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 8.4 Min: 7.4

Soil Map ID: 6

Soil Component Name: Rosamond

Soil Surface Texture: fine sandy loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	7 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14 Min: 4	Max: 8.4 Min: 7.9
2	7 inches	59 inches	stratified loam to silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14 Min: 4	Max: 8.4 Min: 7.9

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

WELL SEARCH DISTANCE INFORMATION

DATABASE	SEARCH DISTANCE (miles)
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
1	USGS40000151634	0 - 1/8 Mile SSW
A7	USGS40000151731	1/8 - 1/4 Mile NW
B9	USGS40000151547	1/8 - 1/4 Mile SSW
C15	USGS40000151654	1/4 - 1/2 Mile West
D16	USGS40000151494	1/4 - 1/2 Mile SSE
D17	USGS40000151493	1/4 - 1/2 Mile SSE
E18	USGS40000151815	1/4 - 1/2 Mile North
F20	USGS40000151372	1/2 - 1 Mile South
F21	USGS40000151373	1/2 - 1 Mile South
23	USGS40000151911	1/2 - 1 Mile North
24	USGS40000151495	1/2 - 1 Mile WSW

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
25	USGS40000151730	1/2 - 1 Mile ENE
28	USGS40000151363	1/2 - 1 Mile SE
29	USGS40000151824	1/2 - 1 Mile ENE
I31	USGS40000152083	1/2 - 1 Mile North
I32	USGS40000152082	1/2 - 1 Mile North
I33	USGS40000152084	1/2 - 1 Mile North
J37	USGS40000151947	1/2 - 1 Mile NW
H39	USGS40000151633	1/2 - 1 Mile East

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

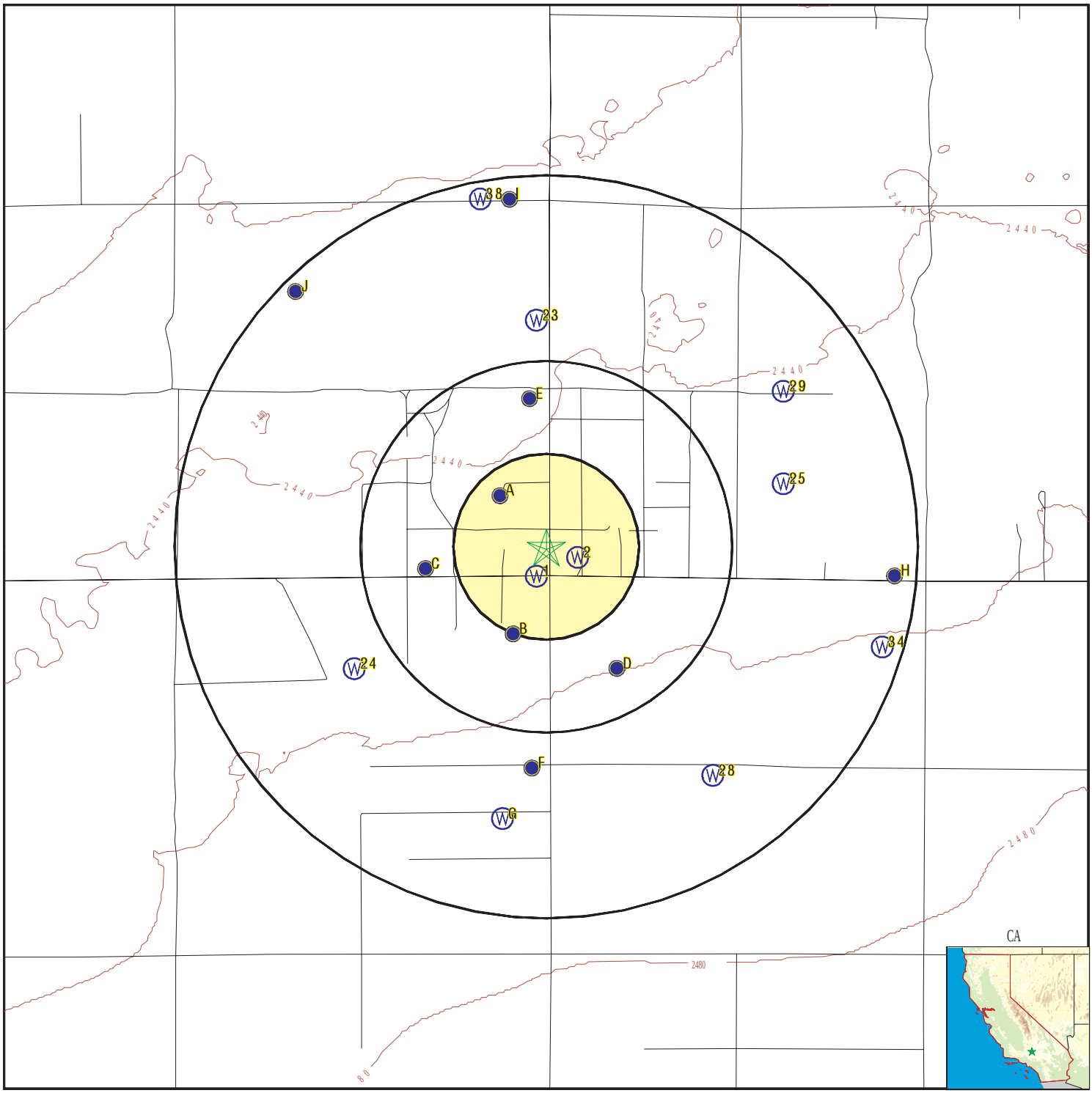
MAP ID	WELL ID	LOCATION FROM TP
No PWS System Found		

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
2	CADDW2000013088	0 - 1/8 Mile ESE
A3	CALLNL000001325	1/8 - 1/4 Mile NW
A4	CADDW2000003009	1/8 - 1/4 Mile NW
A5	CAUSGSN00011788	1/8 - 1/4 Mile NW
A6	CAUSGS000002512	1/8 - 1/4 Mile NW
A8	CADWR9000011903	1/8 - 1/4 Mile NW
B10	CADWR9000011833	1/4 - 1/2 Mile SSW
C11	7463	1/4 - 1/2 Mile West
C12	CADDW2000001081	1/4 - 1/2 Mile WSW
C13	CADDW2000012724	1/4 - 1/2 Mile WSW
D14	CADWR9000011819	1/4 - 1/2 Mile SSE
E19	CADWR9000011931	1/4 - 1/2 Mile North
F22	CADWR9000011775	1/2 - 1 Mile South
G26	CADDW2000006495	1/2 - 1 Mile South
G27	CADDW2000019012	1/2 - 1 Mile South
H30	CADWR9000011872	1/2 - 1 Mile East
34	CADWR9000011826	1/2 - 1 Mile ESE
I35	CADWR9000012033	1/2 - 1 Mile North
I36	CADWR9000012032	1/2 - 1 Mile North
38	CADWR9000012034	1/2 - 1 Mile North
J40	CADWR9000011976	1/2 - 1 Mile NW

PHYSICAL SETTING SOURCE MAP - 8020014.2s



County Boundary
Major Roads
Contour Lines
Earthquake Fault Lines
Earthquake epicenter, Richter 5 or greater
Water Wells
Public Water Supply Wells
Cluster of Multiple Icons

Groundwater Flow Direction
GI Indeterminate Groundwater Flow at Location
GV Groundwater Flow Varies at Location
HD Closest Hydrogeological Data
Oil, gas or related wells

SITE NAME:	Lancaster Properties	CLIENT:	NV5
ADDRESS:	44434 90TH ST E LANCASTER CA 93535	CONTACT:	Eric Fraske
LAT/LONG:	34.691415 / 117.969885	INQUIRY #:	8020014.2s
		DATE:	June 16, 2025 12:14 pm

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GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

1
SSW
0 - 1/8 Mile
Higher

FED USGS **USGS40000151634**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	007N018W18R001S	Type:	Well
Description:	Not Reported	HUC:	18090206
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Basin and Range basin-fill aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	550
Well Hole Depth Units:	ft		

2
ESE
0 - 1/8 Mile
Higher

CA WELLS **CADDW2000013088**

GAMA:

Well ID:	CA1900936_001_001	Well Type:	MUNICIPAL
Source:	DDW	Other Names:	1900936-001
GAMA Pfas testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=CA1900936_001_001&store_num=		
GeoTracker Data:	Not Reported		

A3
NW
1/8 - 1/4 Mile
Lower

CA WELLS **CALLNL000001325**

Well ID:	101471	Well Type:	MUNICIPAL
Source:	Lawrence Livermore National Laboratory		
Other Name:	07N/10W-19H03 S	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	Not Reported		
GeoTracker Data:	Not Reported		

Chemical:	Krypton	Results:	.0000000816105
Units:	cm3STP/g	Date:	06/03/2003
Chemical:	Neon	Results:	.00000024819
Units:	cm3STP/g	Date:	06/03/2003
Chemical:	Helium-3/Helium-4	Results:	.00000121032
Units:	atom ratio	Date:	06/03/2003
Chemical:	Xenon	Results:	.0000000107097
Units:	cm3STP/g	Date:	06/03/2003

Chemical:	Argon	Results:	.000373918
Units:	cm3STP/g	Date:	06/03/2003
Chemical:	Helium-4	Results:	.000000143929
Units:	cm3STP/g	Date:	06/03/2003
Chemical:	Tritium (Hydrogen 3)	Results:	0
Units:	pCi/L	Date:	07/01/2003

A4
NW
1/8 - 1/4 Mile
Lower

CA WELLS **CADDW2000003009**

GAMA:

Well ID:	CA1910070_036_036	Well Type:	MUNICIPAL
Source:	DDW	Other Names:	1910070-036
GAMA Pfas testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=CA1910070_036_036&store_num=		
GeoTracker Data:	Not Reported		

A5
NW
1/8 - 1/4 Mile
Lower

CA WELLS **CAUSGSN00011788**

Well ID:	USGS-344138117581901	Well Type:	UNK
Source:	United States Geological Survey		
Other Name:	USGS-344138117581901	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=USGSNEW&samp_date=&global_id=&assigned_name=USGS-344138117581901&store_num=		
GeoTracker Data:	Not Reported		

A6
NW
1/8 - 1/4 Mile
Lower

CA WELLS **CAUSGS000002512**

GAMA:

Well ID:	ANT-13	Well Type:	MUNICIPAL
Source:	United States Geological Survey		
Other Names:	ANT-13	GAMA Pfas testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=USGS&samp_date=&global_id=&assigned_name=ANT-13&store_num=		
GeoTracker Data:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

A7
NW
1/8 - 1/4 Mile
Lower

FED USGS **USGS40000151731**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	007N010W18R002S	Type:	Well
Description:	Not Reported	HUC:	18090206
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Basin and Range basin-fill aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19780907	Well Depth:	600
Well Depth Units:	ft	Well Hole Depth:	600
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	1	Level reading date:	1986-02-04
Feet below surface:	319	Feet to sea level:	Not Reported
Note:	Not Reported		

A8
NW
1/8 - 1/4 Mile
Lower

CA WELLS **CADWR9000011903**

State Well #:	07N10W18R002S	Station ID:	5870
Well Name:	Not Reported	Basin Name:	Antelope Valley
Well Use:	Unknown	Well Type:	Unknown
Well Depth:	0	Well Completion Rpt #:	Not Reported

B9
SSW
1/8 - 1/4 Mile
Higher

FED USGS **USGS40000151547**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	007N010W19A001S	Type:	Well
Description:	Not Reported	HUC:	18090206
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Basin and Range basin-fill aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Ground water levels,Number of Measurements:	1	Level reading date:	1951-03-23
Feet below surface:	167.80	Feet to sea level:	Not Reported
Note:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

B10
SSW
1/4 - 1/2 Mile
Higher

CA WELLS **CADWR9000011833**

State Well #:	07N10W19A001S	Station ID:	27737
Well Name:	Not Reported	Basin Name:	Antelope Valley
Well Use:	Unknown	Well Type:	Unknown
Well Depth:	0	Well Completion Rpt #:	Not Reported

C11
West
1/4 - 1/2 Mile
Higher

CA WELLS **7463**

Seq:	7463	Prim sta c:	07N/10W-18Q01 S
Frds no:	1900145001	County:	19
District:	49	User id:	19C
System no:	1900145	Water type:	G
Source nam:	WELL 01	Station ty:	WELL/AMBNT/MUN/INTAKE
Latitude:	344126.0	Longitude:	1175828.0
Precision:	3	Status:	AR
Comment 1:	NORTH SIDE OF AVENUE J BETWEEN 86TH AND 87TH ST EAST LANCASTER		
Comment 2:	Not Reported	Comment 3:	Not Reported
Comment 4:	Not Reported	Comment 5:	Not Reported
Comment 6:	Not Reported	Comment 7:	Not Reported

System no:	1900145	System nam:	Reesedale Mutual Water Company
Hqname:	Not Reported	Address:	P.O. BOX 496
City:	LANCASTER	State:	CA
Zip:	93539	Zip ext:	Not Reported
Pop serv:	60	Connection:	20
Area serve:	Not Reported		

Sample date:	31-OCT-17	Finding:	0.91
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		

Sample date:	29-DEC-16	Finding:	0.88
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		

Sample date:	05-JUL-16	Finding:	3.5
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		

Sample date:	05-JUL-16	Finding:	2.2
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		

Sample date:	05-JUL-16	Finding:	2.4
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		

Sample date:	05-JUL-16	Finding:	0.8
Chemical:	URANIUM COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		

Sample date:	05-JUL-16	Finding:	5.1
Chemical:	CHROMIUM, HEXAVALENT	Report units:	UG/L
Dlr:	1.		
Sample date:	05-JUL-16	Finding:	2.1
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	05-JUL-16	Finding:	0.2
Chemical:	RADIUM 228 MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	05-JUL-16	Finding:	0.88
Chemical:	URANIUM MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	05-JUL-16	Finding:	0.303
Chemical:	RADIUM 226 COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	05-JUL-16	Finding:	6.e-003
Chemical:	RADIUM 228	Report units:	PCI/L
Dlr:	1.		
Sample date:	05-JUL-16	Finding:	0.415
Chemical:	RADIUM 228 COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	05-JUL-16	Finding:	0.47
Chemical:	RADIUM 226 MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	31-DEC-15	Finding:	0.88
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	24-DEC-13	Finding:	3.9
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		

C12
WSW
1/4 - 1/2 Mile
Higher

CA WELLS **CADDW2000001081**

GAMA:

Well ID:	CA1900145_002_002	Well Type:	MUNICIPAL
Source:	DDW	Other Names:	1900145-002
GAMA Pfas testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=CA1900145_002_002&store_num=		
GeoTracker Data:	Not Reported		

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

C13
WSW
1/4 - 1/2 Mile
Higher

CA WELLS **CADDW2000012724**

GAMA:

Well ID:	CA1900145_001_001	Well Type:	MUNICIPAL
Source:	DDW	Other Names:	1900145-001
GAMA Pfas testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=CA1900145_001_001&store_num=		
GeoTracker Data:	Not Reported		

D14
SSE
1/4 - 1/2 Mile
Higher

CA WELLS **CADWR9000011819**

State Well #:	07N10W20D002S	Station ID:	27739
Well Name:	Not Reported	Basin Name:	Antelope Valley
Well Use:	Unknown	Well Type:	Unknown
Well Depth:	0	Well Completion Rpt #:	Not Reported

C15
West
1/4 - 1/2 Mile
Lower

FED USGS **USGS40000151654**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	007N010W18Q001S	Type:	Well
Description:	Not Reported	HUC:	18090206
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Basin and Range basin-fill aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19260101	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	614
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	2	Level reading date:	1952-03-04
Feet below surface:	170.29	Feet to sea level:	Not Reported
Note:	Not Reported		

Level reading date:	1951-11-15	Feet below surface:	187.86
Feet to sea level:	Not Reported	Note:	Not Reported

D16
SSE
1/4 - 1/2 Mile
Higher

FED USGS **USGS40000151494**

Organization ID:	USGS-CA
Organization Name:	USGS California Water Science Center

Monitor Location:	007N010W20D002S	Type:	Well
Description:	Not Reported	HUC:	18090206
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Basin and Range basin-fill aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19510701	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	600
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	2	Level reading date:	1952-03-05
Feet below surface:	179.40	Feet to sea level:	Not Reported
Note:	Not Reported		

Level reading date:	1951-11-19	Feet below surface:	188.76
Feet to sea level:	Not Reported	Note:	Not Reported

D17
SSE
1/4 - 1/2 Mile
Higher

FED USGS **USGS40000151493**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	007N010W20D001S	Type:	Well
Description:	Not Reported	HUC:	18090206
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Basin and Range basin-fill aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19200101	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	400
Well Hole Depth Units:	ft		

E18
North
1/4 - 1/2 Mile
Lower

FED USGS **USGS40000151815**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	007N010W18J001S	Type:	Well
Description:	Not Reported	HUC:	18090206
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Basin and Range basin-fill aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19300101	Well Depth:	187
Well Depth Units:	ft	Well Hole Depth:	300
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	1	Level reading date:	1951-03-28
Feet below surface:	158.80	Feet to sea level:	Not Reported
Note:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

E19
North
1/4 - 1/2 Mile
Lower

CA WELLS **CADWR9000011931**

State Well #:	07N10W18J001S	Station ID:	5869
Well Name:	Not Reported	Basin Name:	Antelope Valley
Well Use:	Unknown	Well Type:	Unknown
Well Depth:	0	Well Completion Rpt #:	Not Reported

F20
South
1/2 - 1 Mile
Higher

FED USGS **USGS40000151372**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	007N010W19H001S	Type:	Well
Description:	Not Reported	HUC:	18090206
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Basin and Range basin-fill aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19300101	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	450
Well Hole Depth Units:	ft		

F21
South
1/2 - 1 Mile
Higher

FED USGS **USGS40000151373**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	007N010W19H002S	Type:	Well
Description:	Not Reported	HUC:	18090206
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Basin and Range basin-fill aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19511119	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	600
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	1	Level reading date:	1951-11-19
Feet below surface:	191.05	Feet to sea level:	Not Reported
Note:	Not Reported		

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

F22
South
1/2 - 1 Mile
Higher

CA WELLS **CADWR9000011775**

State Well #:	07N10W19H002S	Station ID:	5872
Well Name:	Not Reported	Basin Name:	Antelope Valley
Well Use:	Unknown	Well Type:	Unknown
Well Depth:	0	Well Completion Rpt #:	Not Reported

23
North
1/2 - 1 Mile
Lower

FED USGS **USGS40000151911**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	007N010W18J002S	Type:	Well
Description:	Not Reported	HUC:	18090206
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Basin and Range basin-fill aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	350
Well Hole Depth Units:	ft		

24
WSW
1/2 - 1 Mile
Higher

FED USGS **USGS40000151495**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	007N010W19C001S	Type:	Well
Description:	Not Reported	HUC:	18090206
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Basin and Range basin-fill aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	550
Well Hole Depth Units:	ft		

25
ENE
1/2 - 1 Mile
Lower

FED USGS **USGS40000151730**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	007N010W17K001S	Type:	Well
Description:	Not Reported	HUC:	18090206
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported

Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Basin and Range basin-fill aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	480
Well Hole Depth Units:	ft		

G26
South
1/2 - 1 Mile
Higher

CA WELLS **CADDW2000006495**

GAMA:

Well ID:	CA1900801_001_001	Well Type:	MUNICIPAL
Source:	DDW	Other Names:	1900801-001
GAMA Pfas testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=CA1900801_001_001&store_num=		
GeoTracker Data:	Not Reported		

G27
South
1/2 - 1 Mile
Higher

CA WELLS **CADDW2000019012**

GAMA:

Well ID:	CA1900801_002_002	Well Type:	MUNICIPAL
Source:	DDW	Other Names:	1900801-002
GAMA Pfas testing:	Not Reported		
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=CA1900801_002_002&store_num=		
GeoTracker Data:	Not Reported		

28
SE
1/2 - 1 Mile
Higher

FED USGS **USGS40000151363**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	007N010W20L001S	Type:	Well
Description:	Not Reported	HUC:	18090206
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Basin and Range basin-fill aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19470417	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	600
Well Hole Depth Units:	ft		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

29
ENE
1/2 - 1 Mile
Lower

FED USGS **USGS40000151824**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	007N010W17G001S	Type:	Well
Description:	Not Reported	HUC:	18090206
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Basin and Range basin-fill aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19290101	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	485
Well Hole Depth Units:	ft		

H30
East
1/2 - 1 Mile
Higher

CA WELLS **CADWR9000011872**

State Well #:	07N10W17R001S	Station ID:	5867
Well Name:	Not Reported	Basin Name:	Antelope Valley
Well Use:	Unknown	Well Type:	Unknown
Well Depth:	0	Well Completion Rpt #:	Not Reported

I31
North
1/2 - 1 Mile
Lower

FED USGS **USGS40000152083**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	007N010W07R003S	Type:	Well
Description:	Not Reported	HUC:	18090206
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Basin and Range basin-fill aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Ground water levels,Number of Measurements:	1	Level reading date:	1967-03-20
Feet below surface:	264.61	Feet to sea level:	Not Reported
Note:	Not Reported		

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

I32
North
1/2 - 1 Mile
Lower

FED USGS **USGS40000152082**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	007N010W07R001S	Type:	Well
Description:	Not Reported	HUC:	18090206
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Basin and Range basin-fill aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19420101	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	487
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	1	Level reading date:	1951-04-23
Feet below surface:	166.86	Feet to sea level:	Not Reported
Note:	Not Reported		

I33
North
1/2 - 1 Mile
Lower

FED USGS **USGS40000152084**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	007N010W07R002S	Type:	Well
Description:	Not Reported	HUC:	18090206
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Basin and Range basin-fill aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	356
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Ground water levels,Number of Measurements:	2	Level reading date:	1952-03-04
Feet below surface:	147.82	Feet to sea level:	Not Reported
Note:	Not Reported		
Level reading date:	1951-11-16	Feet below surface:	158.80
Feet to sea level:	Not Reported	Note:	Not Reported

34
ESE
1/2 - 1 Mile
Higher

CA WELLS **CADWR9000011826**

State Well #:	07N10W20A001S	Station ID:	5873
Well Name:	Not Reported	Basin Name:	Antelope Valley
Well Use:	Unknown	Well Type:	Unknown
Well Depth:	0	Well Completion Rpt #:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

I35
North
1/2 - 1 Mile
Lower

CA WELLS **CADWR9000012033**

State Well #:	07N10W07R003S	Station ID:	5849
Well Name:	Not Reported	Basin Name:	Antelope Valley
Well Use:	Unknown	Well Type:	Unknown
Well Depth:	0	Well Completion Rpt #:	Not Reported

I36
North
1/2 - 1 Mile
Lower

CA WELLS **CADWR9000012032**

State Well #:	07N10W07R001S	Station ID:	5848
Well Name:	Not Reported	Basin Name:	Antelope Valley
Well Use:	Unknown	Well Type:	Unknown
Well Depth:	0	Well Completion Rpt #:	Not Reported

J37
NW
1/2 - 1 Mile
Lower

FED USGS **USGS40000151947**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	007N010W18C001S	Type:	Well
Description:	Not Reported	HUC:	18090206
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Basin and Range basin-fill aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19370101	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	360
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	1	Level reading date:	1951-04-19
Feet below surface:	169.45	Feet to sea level:	Not Reported
Note:	Not Reported		

38
North
1/2 - 1 Mile
Lower

CA WELLS **CADWR9000012034**

State Well #:	07N10W07R002S	Station ID:	27729
Well Name:	Not Reported	Basin Name:	Antelope Valley
Well Use:	Unknown	Well Type:	Unknown
Well Depth:	0	Well Completion Rpt #:	Not Reported

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

H39
East
1/2 - 1 Mile
Higher | **FED USGS** | **USGS40000151633**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	007N010W17R001S	Type:	Well
Description:	Not Reported	HUC:	18090206
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Basin and Range basin-fill aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19260101	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	400
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	14	Level reading date:	1964-03-04
Feet below surface:	Not Reported	Feet to sea level:	Not Reported
Note:	The measurement was discontinued.		
Level reading date:	1963-11-05	Feet below surface:	262.11
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1963-03-12	Feet below surface:	271.10
Feet to sea level:	Not Reported		
Note:	A nearby site that taps the same aquifer was being pumped.		
Level reading date:	1962-11-08	Feet below surface:	255.22
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1962-02-28	Feet below surface:	240.47
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1961-10-26	Feet below surface:	246.33
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1961-02-28	Feet below surface:	238.22
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1960-11-16	Feet below surface:	239.05
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1960-03-01	Feet below surface:	229.54
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1959-12-08	Feet below surface:	232.46
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1959-03-12	Feet below surface:	238.12
Feet to sea level:	Not Reported		
Note:	A nearby site that taps the same aquifer was being pumped.		
Level reading date:	1958-11-06	Feet below surface:	229.18
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1958-03-12	Feet below surface:	221.32
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1957-11-20	Feet below surface:	228.41
Feet to sea level:	Not Reported	Note:	Not Reported

J40
NW
1/2 - 1 Mile
Lower

CA WELLS **CADWR9000011976**

State Well #:	07N10W18C001S	Station ID:	5868
Well Name:	Not Reported	Basin Name:	Antelope Valley
Well Use:	Unknown	Well Type:	Unknown
Well Depth:	0	Well Completion Rpt #:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
RADON

AREA RADON INFORMATION

State Database: CA Radon

Radon Test Results

Zipcode	Num Tests	> 4 pCi/L
93535	21	0

Federal EPA Radon Zone for LOS ANGELES County: 2

Note: Zone 1 indoor average level > 4 pCi/L.
: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
: Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for LOS ANGELES COUNTY, CA

Number of sites tested: 63

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	0.711 pCi/L	98%	2%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	0.933 pCi/L	100%	0%	0%

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)
Source: United States Geologic Survey
EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

HYDROLOGIC INFORMATION

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.
Source: FEMA
Telephone: 877-336-2627
Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005, 2010 and 2015 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory
Source: Department of Fish and Wildlife
Telephone: 916-445-0411

HYDROGEOLOGIC INFORMATION

AQUIFLOW^{R} Information System
Source: EDR proprietary database of groundwater flow information
EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit
Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
Telephone: 800-672-5559
SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Service, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)
This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

OTHER STATE DATABASE INFORMATION

Groundwater Ambient Monitoring & Assessment Program
State Water Resources Control Board
Telephone: 916-341-5577
The GAMA Program is Californias comprehensive groundwater quality monitoring program. GAMA collects data by testing the untreated, raw water in different types of wells for naturally-occurring and man-made chemicals. The GAMA data includes Domestic, Monitoring and Municipal well types from the following sources, Department of Water Resources, Department of Heath Services, EDF, Agricultural Lands, Lawrence Livermore National Laboratory, Department of Pesticide Regulation, United States Geological Survey, Groundwater Ambient Monitoring and Assessment Program and Local Groundwater Projects.

Water Well Database
Source: Department of Water Resources
Telephone: 916-651-9648

California Drinking Water Quality Database
Source: Department of Public Health
Telephone: 916-324-2319
The database includes all drinking water compliance and special studies monitoring for the state of California since 1984. It consists of over 3,200,000 individual analyses along with well and water system information.

Geothermal Wells Listing
Department of Conservation
Telephone: 916-445-9686
Geothermal well means a well constructed to extract or return water to the ground after it has been used for heating or cooling purposes. Geothermal wells in California (except for wells on federal leases which are administered by the Bureau of Land Management) are permitted, drilled, operated, and permanently sealed and closed (plugged and abandoned) under requirements and procedures administered by the Geothermal Section of the Department of Conservations Geologic Energy Management Division (CalGEM, formerly DOGGR).

California Oil and Gas Well Locations
Source: Dept of Conservation, Geologic Energy Management Division
Telephone: 916-323-1779
Oil and Gas well locations in the state.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

California Earthquake Fault Lines
Source: California Division of Mines and Geology
The fault lines displayed on EDR's Topographic map are digitized quaternary fault lines prepared in 1975 by the United State Geological Survey. Additional information (also from 1975) regarding activity at specific fault lines comes from California's Preliminary Fault Activity Map prepared by the California Division of Mines and Geology.

RADON

State Database: CA Radon
Source: Department of Public Health
Telephone: 916-210-8558
Radon Database for California

Area Radon Information
Source: USGS
Telephone: 703-356-4020
The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones
Source: EPA
Telephone: 703-356-4020
Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

OTHER

Airport Landing Facilities: Private and public use landing facilities
Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater
Source: Department of Commerce, National Oceanic and Atmospheric Administration

California Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary fault lines, prepared in 1975 by the United State Geological Survey. Additional information (also from 1975) regarding activity at specific fault lines comes from California's Preliminary Fault Activity Map prepared by the California Division of Mines and Geology.

STREET AND ADDRESS INFORMATION

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Appendix C

Regulatory Agency Records

FROM—LOS ANGELES COUNTY HEALTH DEPARTMENT
—LOS ANGELES COUNTY BUILDING DEPARTMENT

Lancaster OFFICE

DATE 3/8/60

NAME E. H. Hansen

ADDRESS 44434 N. 90th E

Lanc

The requirements of Los Angeles County Ordinance No. 2269 can be met by a properly installed disposal system including the following:

- [X] SEPTIC TANK
- [X] SEEPAGE PIT
- [ ] CESSPOOL
- [ ] One or more seepage pits depending upon type of soil encountered.
- [ ] GREASE TRAP
- [ ] DRAINFIELD

Length 70 Width Depth

BUILDING DEPT.

N

Seepage pits

Garage 7 units

750 g Tank

Remarks IF ANY DOMESTIC WATER LINES ARE ENCOUNTERED THE LOCATION OF THE SEWAGE DISPOSAL MUST BE REVISED.

Washing 50 ft from highwater

44434 90th St East

L.A. COUNTY DPW | HAZARDOUS MATERIALS SYSTEM | REPORT: HMR050.002

DATE COMPILED: 05/25/93 | TANKS INSPECTION JOB ORDER | INSP#: I000090264

RUN DATE: 03/21/94 16:25:16 | INSPECTORS REPORT VARIOUS | ASSC#:

PAGE: 1

FILE #: 011804-011869 NAME: DALES AUTO CLINIC
ADD: 44434 N 90TH ST EAST
LANCASTER, CA 93535 AREA: 4 SMD: 95
XSTREET: EAST AVE J THOMAS GUIDE: 0000-00
CONTACT: DALE E. HOWARD (OWNER) TEL: 805-946-1986

PROC: SAMPLE REQUIRED? N SAMPLE #: _____

INSP INFO: VERIFY IF THERE IS ANY UNDER GROUND TANK ON SITE AND TAKE PICTURE FOR THE ABOVE GROUND TANK.

ASSGN TO: SANTA CLARITA FIELD OFFICE SECT: FIELD INSPECTION UNIT

==========

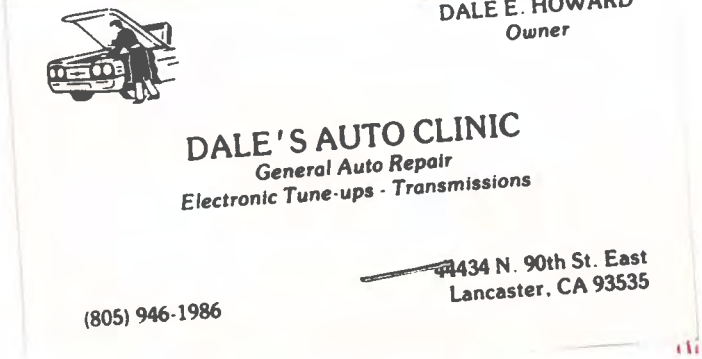
RESULTS: ① THE TANK CAPACITY IS ABOUT 200 GALLONS. USED TO HOLD WASTE OIL
② THE CONTAINMENT IS IN GROUND CONCRETE VAULT SHALLOW ABOUT 2 FEET DEEP. WITH CONCRETE SLAB AT BOTTOM.
③ THE CONCRETE VAULT IS CLEAN. THE TANK IS LIFTED ON BLOCKS
④ I SUGGEST THAT THIS SHOULD BE CONSIDERED ABOVE GROUND.

REMARKS: ENCLOSED: A PICTURE OF THE TANK.
OWNER WISH TO RELOCATE THE WASTE OIL TANK. I SUGGESTED THAT HE SHOULD TALK TO JOE BIANCO ABOUT ABOVE GROUND SPILL CONTAINMENT FOR THE SMALL TANK.

INSPECTOR: MARK KIEL INSPECTION DATE: 3.23.94

DISP: Comp





DALE'S AUTO CLINIC
44434 No.90th E.
LANCASTER, CALIF. 93535

11869-4

HHH
OTHR

RECEIVED
MAR - 3 1994
DEPARTMENT OF PUBLIC WORKS
WASTE MANAGEMENT DIVISION

C88880

February 28, 1994

Waste Management Division
Alhambre, Calif.

Attn: Mr. Sjberg,

As per converstion with you Feb.24th concerning my oil storage tank....

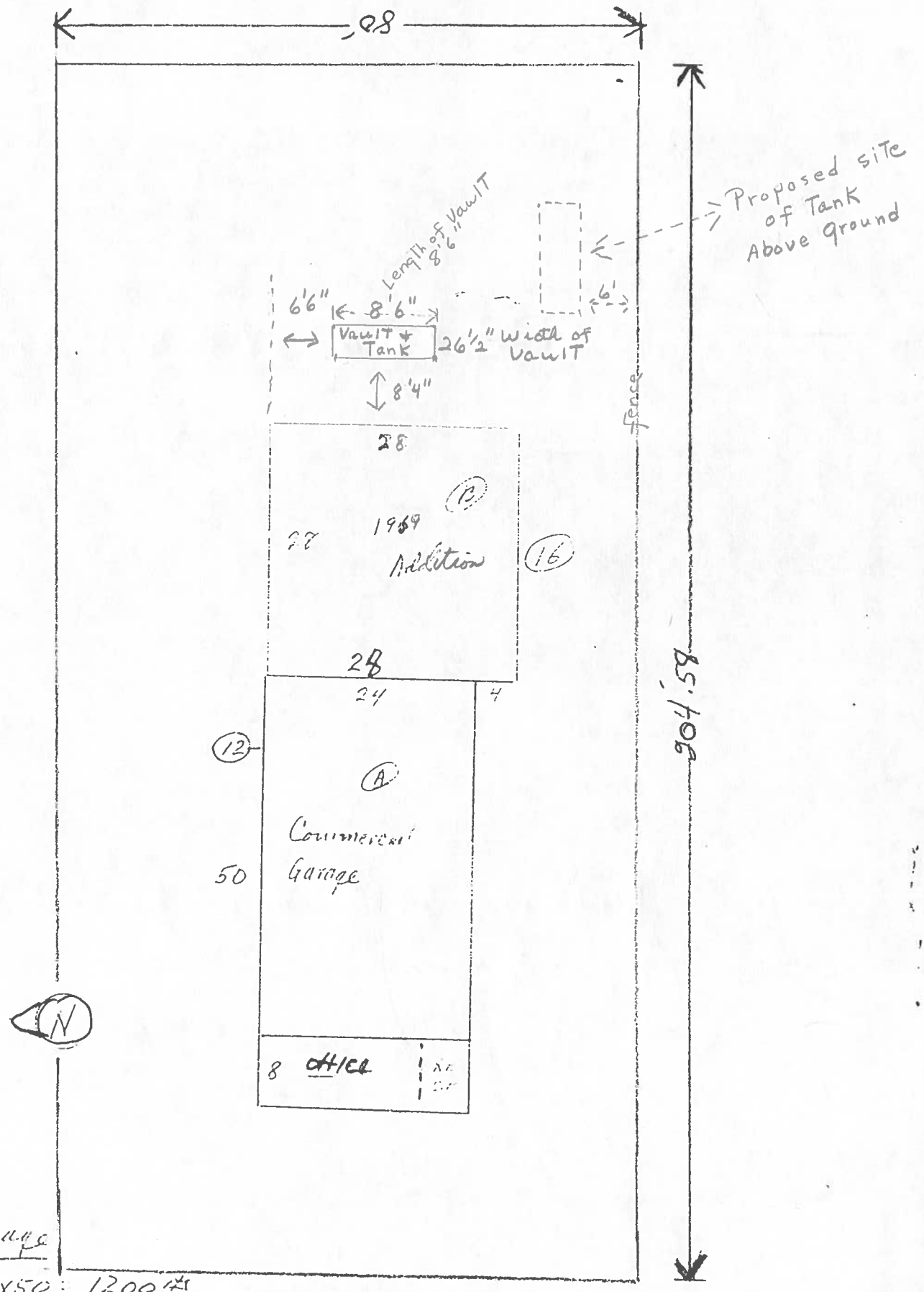
I want permission to move this tank to a more convenient location and I sure don't want it to be connected with anything concerning underground storage. We need a closure on this tank.
Enclosed is the information you requested. Thank you for your assistance.

Sincerely,

Dale E. Howard DBA
Dale's Auto Clinic
44434 No.90th E.
Lancaster, Calif. 93535
805 946 1986

Information concerning the vault and existing tank.

vault is 17" deep (or below ground level)
Tank sets in the vault at ground level. It does not go below ground level.



4444 N Golden State Blvd
Lincoln CA 95648

Garage
24x50 = 1200 ft²

B 28x28 = 756 ft² 784

Office 2 R.A (added value)
24x8 = 192 1/2 c 45 = 86

UPDATE FORM (UF)

FILE No.- 11869

HMUSP No.- 3452

AREA 4B

REVIEW DATE: 9-21-92 ~~5-2-86~~

REVIEWED BY: _____

HMS INPUT BY: JF 9-27-92

DOCUMENT DATE (APP REC'D)	DOCUMENT/ APPLICATION LISTING USTs & UST DATA	COLUMN (1) USTs PERMITTED	COLUMN (2) UST ADDITIONS	COLUMN (3) USTs CLOSED	NET USTs (A)
5-2-86	3452	2			
10-5-87	5748B			1	
TOTALS				(A)=	1

>>>>>>>>>>> ACTIVE USTs DETERMINED FROM HMS (ACT TANK CT): (B) = 1

BH:UPDATE1

UST DATA/ADJUSTMENTS

UST NO.	UST SIZE	UST CONTENTS	UST CONSTRUCTION	KEY/ APP TYPE
001	300	used motor oil	SW	Key
002				
003				
004				
005				
006				
007				
008				
009				
010				
011				
012				
013				
014				
015				
016				
017				
018				
019				
020				
021				
022				

COMMENTS:

********** HAZARDOUS MATERIALS STORAGE PERMIT FEE BILL **********

DATE DUE: 04/30/86 AMOUNT DUE: $188.00 P

(COUNTY PERMIT FEE: 76.00)
011869 00003452 4B (STATE SURCHARGE FEE: 112.00)

SITE: 44434 N 90 EAST
OWNER:

DALES AUTO CLINIC & FARM
44434 N 90 EAST
LANCASTER CA 93535-

LA COUNTY DEPT OF PUBLIC WORKS
ENGINEERING SERVICES DIVISION
(213) 226-4000

3798 MAY 29 69 188.00

>>>>>>>> RETAIN THIS PORTION FOR YOUR RECORDS <<<<<<<<

PROVISIONAL PERMIT APPLICATION SUPPLEMENT
HAZARDOUS MATERIALS UNDERGROUND STORAGE
COUNTY OF LOS ANGELES, DEPARTMENT OF PUBLIC WORKS
ENGINEERING SERVICES DIVISION
2250 ALCAZAR STREET LOS ANGELES, CA 90033

RECEIVED
MAY 2 1986
DEPARTMENT OF PUBLIC
ENGINEERING SERVICES

DUE DATE APR 30 1986

FILE NO 11869
PERMIT NO 3452
R/C CODE AB
SIC CODE
STATE ID# 20543
TGP TGC

THIS FORM MUST ACCOMPANY ALL HMUSP APPLICATIONS
*****See instructions on back of this form*****

IF NO UNDERGROUND TANKS AT THIS FACILITY, GO TO PARTS F & G

20543

(A) DALES AUTO CLINIC & FARM
44434 NO 90 EAST
LANCASTER CA 93535

RE: 44434 NO 90 EAST
LANCASTER

(B) APPLICATION FOR (CHECK ONE ONLY):
EXISTING TANKS [ ]
NEW CONSTRUCTION [ ]
REPAIR*[ ] MODIFICATION* [ ]
ADDITIONAL INSTALLATION* [ ]
CHANGE OF MATERIAL STORED*[ ]
*ADDITIONAL APPROVAL

(C) ASSESSOR PARCEL IDENTIFICATION (OBTAIN FROM PROPERTY TAX BILL):

MAP BOOK NUMBER_____ PAGE NUMBER_____ PARCEL NUMBER_____

(D) THIS SUPPLEMENT MUST BE ACCOMPANIED BY:

EXISTING TANK APPLICATIONS
* STATE PERMIT APPLICATION FORM(S) FOR EACH CONTAINER, OR [ ]
COPIES OF H.S.S.S. AS FILED WITH STATE (FOR EACH CONTAINER) [ ]
* A STATEMENT VERIFYING SAFE STORAGE FOR EACH CONTAINER [ ]
* HMUSP APPLICATION FEE (COMPLETE PART E) [ ]

NEW CONSTRUCTION APPLICATIONS
* STATE PERMIT APPLICATION FORM(S) FOR EACH CONTAINER [ ]
* FOUR (4) SETS OF CONSTRUCTION PLANS AND SPECIFICATIONS [ ]
* HMUSP APPLICATION FEE (COMPLETE PART E) [ ]

(E) HAZARDOUS MATERIALS UNDERGROUND STORAGE PERMIT (HMUSP) FEE SCHEDULE

NUMBER OF TANKS AT FACILITY: 2

NUMBER OF TANKS:	HMUSP APPLICATION FEE	+	STATE SURCHARGE	=	TOTAL FEES DUE
1 - 5	(\$76)	+	\$56 PER TANK	=	188.00
6 - 20	\$152	+	\$56 PER TANK	=	
21 OR MORE	\$228	+	\$56 PER TANK	=	
ADDITIONAL APPROVALS	\$38 EACH TANK		NONE	=	

EXAMPLE: 6 TANKS = \$152 + 6(\$56) = \$488 = TOTAL FEES DUE
MAKE CHECKS PAYABLE TO "L. A. COUNTY DEPARTMENT OF PUBLIC WORKS"

(F) TO BE FILLED OUT BY PERSONS CLAIMING AN EXEMPTION TO REGULATION

[ ] THERE ARE NO UNDERGROUND STORAGE TANKS WITHIN THIS FACILITY.
[ ] **FINAL** INTERCEPTOR(S) REGULATED UNDER INDUSTRIAL WASTE PERMIT #_____.
[ ] UNDERGROUND STORAGE TANK WITHIN THIS FACILITY IS USED **ONLY** FOR THE EMERGENCY SPILL CONTAINMENT FOR ABOVE GROUND STORAGE TANKS.
[ ] OTHER (ATTACH A WRITTEN STATEMENT)

(G) ALL PERSONS FILING THIS FORM MUST COMPLETE THIS SECTION:

SIGNATURE Dale E Howard TITLE Owner

PRINTED NAME Dale E. Howard DATE April 29-86

Waste Mgt

LOS ANGELES COUNTY DEPARTMENT OF PUBLIC WORKS

Waste Management Division

FORM 'A':
SITE

UNDERGROUND STORAGE TANK PROGRAM

FACILITY/SITE INFORMATION

COMPLETE THIS FORM FOR EACH FACILITY/SITE

810.25

MARK ONLY ONE ITEM							
	☐ 1 NEW PERMIT	☐ 3 RENEWAL PERMIT	☒ 5 CHANGE OF INFORMATION	☐ 7 PERMANENTLY CLOSED SITE
	☐ 2 INTERIM PERMIT	☐ 4 AMENDED PERMIT	☐ 6 TEMPORARY SITE CLOSURE	

I. FACILITY/SITE INFORMATION & ADDRESS — (MUST BE COMPLETED)

FACILITY/SITE NAME: DALES AUTO CLINIC		CARE OF ADDRESS INFORMATION:	
ADDRESS: 44434 N 090TH ST EAST		NEAREST CROSS STREET: East Ave "J"	☑ Box to indicate ☐ CORPORATION ☑ INDIVIDUAL ☐ PARTNERSHIP ☐ LOCAL-AGENCY ☐ COUNTY-AGENCY ☐ STATE-AGENCY ☐ FEDERAL-AGENCY
CITY NAME: LANCASTER	STATE: CA	ZIP CODE: 93535	SITE PHONE #, WITH AREA CODE: 805 946 1986
TYPE OF BUSINESS: ☐ 1 GAS STATION ☐ 2 DISTRIBUTOR ☐ 3 FARM ☐ 4 PROCESSOR ☒ 5 OTHER	☑ Box if INDIAN RESERVATION or TRUST LANDS ☐	EPA ID #	# of TANK's AT THIS SITE: 1

EMERGENCY CONTACT PERSON (PRIMARY)	EMERGENCY CONTACT PERSON (SECONDARY)
DAYS: NAME (LAST, FIRST) — PHONE # WITH AREA CODE	DAYS: NAME (LAST, FIRST) — PHONE # WITH AREA CODE
NIGHTS: NAME (LAST, FIRST) — PHONE # WITH AREA CODE	NIGHTS: NAME (LAST, FIRST) — PHONE # WITH AREA CODE

II. PROPERTY OWNER INFORMATION & ADDRESS — (MUST BE COMPLETED)

NAME: Same As Site		CARE OF ADDRESS INFORMATION:	
MAILING or STREET ADDRESS:		☑ Box to indicate ☐ CORPORATION ☑ INDIVIDUAL ☐ PARTNERSHIP ☐ LOCAL-AGENCY ☐ COUNTY-AGENCY ☐ STATE-AGENCY ☐ FEDERAL-AGENCY	
CITY NAME:	STATE:	ZIP CODE:	PHONE #, WITH AREA CODE:

III. TANK OWNER INFORMATION & ADDRESS — (MUST BE COMPLETED)

NAME: DALES AUTO CLINIC		CARE OF ADDRESS INFORMATION:	
MAILING or STREET ADDRESS: 44434 N 090TH ST EAST		☑ Box to indicate ☐ CORPORATION ☑ INDIVIDUAL ☐ PARTNERSHIP ☐ LOCAL-AGENCY ☐ COUNTY-AGENCY ☐ STATE-AGENCY ☐ FEDERAL-AGENCY	
CITY NAME: LANCASTER	STATE: CA	ZIP CODE: 93535 0000	PHONE #, WITH AREA CODE: 805 946 1986

IV. LEGAL NOTIFICATION AND BILLING ADDRESS

CHECK ONE (1) BOX INDICATING WHICH ABOVE ADDRESS SHOULD BE USED FOR BOTH LEGAL NOTIFICATION AND BILLING: I. ☒ II. ☐ III. ☐

THIS FORM HAS BEEN COMPLETED UNDER PENALTY OF PERJURY, AND TO THE BEST OF MY KNOWLEDGE, IS TRUE AND CORRECT.

APPLICANT'S NAME (PRINTED & SIGNATURE)	DATE
Dale E. Howard Dale E Howard	11-17-89

LOCAL AGENCY USE ONLY

COUNTY #	JURISDICTION #	AGENCY #	FILE #	# of TANKS at SITE
19	000	001	011869	

CURRENT LOCAL AGENCY FACILITY ID #	APPROVED BY NAME	PHONE # WITH AREA CODE
00000020543		

PERMIT NUMBER	PERMIT APPROVAL DATE	PERMIT EXPIRATION DATE
00003452	05/02/86	

LOCATION CODE	CENSUS TRACT #	SUPERVISOR-DISTRICT CODE	BUSINESS PLAN FILED	DATE FILED
4 B			YES ☐ NO ☐	

CHECK #	PERMIT AMOUNT	SURCHARGE AMOUNT	FEE CODE	RECEIPT #	BY:

LOS ANGELES COUNTY DEPARTMENT OF PUBLIC WORKS
Waste Management Division

FORM 'B': TANK

UNDERGROUND STORAGE TANK PROGRAM
FACILITY/SITE INFORMATION
COMPLETE THIS FORM FOR EACH FACILITY/SITE

MARK ONLY ONE ITEM
- [ ] 1 NEW PERMIT
- [ ] 2 INTERIM PERMIT
- [ ] 3 RENEWAL PERMIT
- [ ] 4 AMENDED PERMIT
- [X] 5 CHANGE OF INFORMATION
- [ ] 6 TEMPORARY TANK CLOSURE
- [ ] 7 PERMANENTLY CLOSED TANK
- [ ] 8 TANK REMOVED

FACILITY/SITE NAME WHERE TANK IS INSTALLED: **FARM TANK - YES** [ ] **NO** [ ]

I. TANK DESCRIPTION COMPLETE ALL ITEMS - IF UNKNOWN — SO SPECIFY

A. OWNERS TANK ID # 1	B. MANUFACTURED BY: Ray E Hanson
C. YEAR INSTALLED Unknown [prior to 1986]	D. TANK CAPACITY IN GALLONS: 300

II. TANK CONTENTS IF (A.1), IS MARKED, COMPLETE ITEM C. IF (A.1), IS NOT MARKED, COMPLETE ITEM D.

A.
- [ ] 1 MOTOR VEHICLE FUEL
- [ ] 2 PETROLEUM
- [ ] 3 CHEMICAL PRODUCT
- [ ] 4 OIL
- [ ] 5 HAZARDOUS
- [ ] 80 EMPTY
- [ ] 95 UNKNOWN

B.
- [ ] 1 PRODUCT
- [ ] 2 WASTE

C.
- [ ] 1 UNLEADED
- [ ] 2 LEADED
- [ ] 3 DIESEL
- [ ] 4 GASAHOL
- [ ] 5 JET FUEL
- [ ] 6 AVIATION GAS
- [ ] 7 METHANOL
- [ ] 99 OTHER (DESCRIBE IN ITEM D, BELOW)

D. IF NOT MOTOR VEHICLE FUEL, ENTER NAME OF HAZARDOUS SUBSTANCE STORED & C.A.S. # Used Motor oil C.A.S. #:

III. TANK CONSTRUCTION MARK ONE ITEM ONLY IN BOX A, B, C, & D

A. TYPE OF SYSTEM
- [ ] 1 DOUBLE WALLED
- [✓] 2 SINGLE WALLED
- [ ] 3 SINGLE WALLED WITH EXTERIOR LINER
- [ ] 4 SECONDARY CONTAINMENT
- [ ] 95 UNKNOWN
- [ ] 99 OTHER

B. TANK MATERIAL
- [✓] 1 STEEL/IRON
- [ ] 2 STAINLESS STEEL
- [ ] 3 FIBERGLASS
- [ ] 4 STEEL CLAD W/FIBERGLASS REINFORCED PLASTIC
- [ ] 5 CONCRETE
- [ ] 6 POLYVINYL CHLORIDE
- [ ] 7 ALUMINUM
- [ ] 8 100% METHANOL COMPATIBLE FRP
- [ ] 9 BRONZE
- [ ] 10 GALVANIZED STEEL
- [ ] 95 UNKNOWN
- [ ] 99 OTHER

C. INTERIOR LINING
- [ ] 1 RUBBER LINED
- [ ] 2 ALKYD LINING
- [ ] 3 EPOXY LINING
- [ ] 4 PHENOLIC LINING
- [ ] 5 GLASS LINING
- [✓] 6 UNLINED
- [ ] 95 UNKNOWN
- [ ] IS LINING MATERIAL COMPATIBLE WITH 100% METHANOL? [ ] YES [ ] NO
- [ ] 99 OTHER

D. CORROSION PROTECTION
- [ ] 1 POLYETHLENE WRAP
- [ ] 2 TAR OR ASPHALT
- [ ] 3 VINYL WRAP
- [ ] 4 FIBERGLASS REINFORCED PLASTIC
- [ ] 5 CATHODIC PROTECTION
- [ ] 91 NONE
- [ ] 95 UNKNOWN
- [✓] 99 OTHER Not underground Painted

IV. PIPING INFORMATION CIRCLE A IF ABOVE GROUND, U IF UNDERGROUND, BOTH IF APPLICABLE

A. SYSTEM TYPE	A U 1 SUCTION	A U 2 PRESSURE	A U 3 GRAVITY	(A) U 91 NONE	A U 95 UNKNOWN	A U 99 OTHER
B. CONSTRUCTION	A U 1 SINGLE WALLED	A U 2 DOUBLE WALLED	A U 3 LINED TRENCH	(A) U 91 NONE	A U 95 UNKNOWN	A U 99 OTHER
C. MATERIAL	A U 1 STEEL/IRON	A U 2 STAINLESS STEEL	A U 3 POLYVINYL CHLORIDE (PVC)	A U 4 FIBERGLASS PIPE	(A) U 91 NONE	
	A U 5 ALUMINUM	A U 6 CONCRETE	A U 7 STEEL CLAD W/FRP	A U 8 100% METHANOL COMPATIBLE FRP		
	A U 9 GALVANIZED STEEL	A U 95 UNKNOWN	A U 99 OTHER			

V. LEAK DETECTION SYSTEM CIRCLE P FOR PRIMARY, OR S FOR SECONDARY, A PRIMARY LEAK DETECTION SYSTEM MUST BE CIRCLED.

(P) S 1 VISUAL CHECK	P S 2 INVENTORY RECONCILIATION	P S 3 VADOSE WELLS	P S 4 ELECTRONIC MONITOR	P S 5 GROUND WATER MONITORING WELLS
P S 6 PRECISION TESTING	P S 7 PRESSURE TESTING	P S 91 NONE	P S 95 UNKNOWN	P S 99 OTHER

VI. INFORMATION ON TANK PERMANENTLY CLOSED IN PLACE

1. ESTIMATED DATE LAST USED (MO/YR)	2. ESTIMATED QUANTITY OF SUBSTANCE REMAINING IN GALLONS	3. WAS TANK FILLED WITH INERT MATERIAL? [ ] YES [ ] NO

THIS FORM HAS BEEN COMPLETED UNDER PENALTY OF PERJURY, AND TO THE BEST OF MY KNOWLEDGE, IS TRUE AND CORRECT.

APPLICANT'S NAME (PRINTED & SIGNATURE)	DATE

LOCAL AGENCY USE ONLY

COUNTY #	JURISDICTION #	AGENCY #	FILE #	TANK ID #
19	000	001	011869	

CURRENT LOCAL AGENCY FACILITY ID #	APPROVED BY NAME	PHONE # WITH AREA CODE
00000020543 1		

PERMIT NUMBER	PERMIT APPROVAL DATE	PERMIT EXPIRATION DATE

CHECK #	PERMIT AMOUNT	SURCHARGE AMT.	FEE CODE	RECEIPT #	BY:

1.03495

BARNEY'S Incorporated

D.A. "BARNEY" OLDFIELD PRESIDENT

STATE LICENSE NO. 481165

SERVICE STATION EQUIPMENT INSTALLATION
SERVICE STATION CONSTRUCTION — EQUIPMENT REPAIR

7351 WALNUT AVE.
BUENA PARK, CA 90620
(714) 522-8673
(800) 634-0399
FAX: (714) 522-7846

June 19, 1991

County of Los Angeles
Department of Public Works
P. O. Box 1460
Alhambra California 91802-1460
Attention Jeff Chow

RECEIVED
JUN 25 1991
DEPARTMENT OF PUBLIC WORKS
ENVIRONMENTAL MANAGEMENT DIVISION

RE: Ezell Nursery
8739 Artesia Blvd.
Bellflower CA 90706
Project Number 1-11870-1J

Dear Mr. Chow,

I'am requesting an 60 day extension on this project to better evaluate extent of contamination and to further discuss with you on decision on remedial work, that you requested.
If you have any question feel free to contact me in my office at (714) 522-8673.

Respectfully,

David K. Oldfield
Vice President

DALE'S AUTO CLINIC
44434 No.90th E.
Lancaster, Calif.93535
805 946 1986

10.301.3

May 28,1991

To Whom it May Concern;
We want to notify you that this tank was checked and the check showed that we did not qualify for underground storage. Because of the concrete confinement and the tank itself supported 90% above ground level on the inside of the confinement. However, we are paying this, but would appreciate it if you would look into this. Thank you.

Sincerely,
Dale E. Howard
Dale's Auto clinic
44434 No. 90th E.
Lancaster, Calif. 93535
805 946 1986

8-0004 DPW 8/87

BH

LOS ANGELES COUNTY DEPARTMENT OF PUBLIC WORKS
WASTE MANAGEMENT DIVISION

BILLING ADJUSTMENT

FN 1569 PN 3452 DR No.

BILLING

	Increase	Batch ID No.	Decrease	Batch ID No.
CO				
SS				

	Increase	Batch ID No.	Decrease	Batch ID No.
CO			17	651
SS				

Trust Increase Batch ID No.

Trust Decrease Batch ID No. DR No.

Comment To correct the wrong Batch ID No. issued [illegible]

FN PN DR No.

BILLING

	Increase	Batch ID No.	Decrease	Batch ID No.
CO				
SS				

	Increase	Batch ID No.	Decrease	Batch ID No.
CO				
SS				

Trust Increase Batch ID No.

Trust Decrease Batch ID No. DR No.

Comment

BY BH Date 6/21/89

58-0004 DPW 8/87

LOS ANGELES COUNTY DEPARTMENT OF PUBLIC WORKS
WASTE MANAGEMENT DIVISION

BILLING ADJUSTMENT

FN 11869 PN 3452 DR No.

BILLING

	Increase	Batch ID No.	Decrease	Batch ID No.
CO			17	602
SS				

	Increase	Batch ID No.	Decrease	Batch ID No.
CO				
SS				

Trust Increase Batch ID No.

Trust Decrease Batch ID No. DR No.

Comment S/B only one Tank 10/5/87

FN PN DR No.

BILLING

	Increase	Batch ID No.	Decrease	Batch ID No.
CO				
SS				

	Increase	Batch ID No.	Decrease	Batch ID No.
CO				
SS				

Trust Increase Batch ID No.

Trust Decrease Batch ID No. DR No.

Comment

BY M. Mendez Date 6/15/89

COUNTY OF LOS ANGELES
DEPARTMENT OF PUBLIC WORKS

900 SOUTH FREMONT AVENUE
ALHAMBRA, CALIFORNIA 91803-1331
Telephone: (818) 458-5100

THOMAS A. TIDEMANSON, Director

ADDRESS ALL CORRESPONDENCE TO:
P.O. BOX 1460
ALHAMBRA, CALIFORNIA 91802-1460

June 21, 1989

IN REPLY PLEASE
REFER TO FILE: I-11869-4B

Dale's Auto Clinic
44434 N. 90th St. East
Lancaster, CA 93535

Gentlemen:

HAZARDOUS MATERIALS UNDERGROUND STORAGE PERMIT (HMUSP) FEES
PERMIT NO. 3452
FACILITY LOCATION: 44434 N. 90th St. East, Lancaster, CA 93535

Hazardous Materials Underground Storage Permit fees and/or State surcharge fees previously billed in connection with the above facility and permit are modified as follows:

[ ] The subject permit will be terminated effective the date of payment of HMUSP fee and/or State surcharge fee installments due through the actual date of closure as indicated on the enclosed invoice.

[ ] Our records indicate actual closure was accomplished on _____.

[ ] Your penalty amount has been adjusted as shown.

[ ] State surcharge fee is due for the amount shown.

[x] Number of tanks at your facility have been changed to the number shown on the enclosed revised Part B to be attached to your HMUSP.

[x] Please remit adjusted fees shown on the enclosed bill by the due date indicated.

[x] Other: If you have already received your corrected bill for $89.00 and paid it, please disregard this notice.

If you have any questions concerning this matter, please contact Judy A. Biurrea at (818) 458-3517.

Very truly yours,

T. A. TIDEMANSON
Director of Public Works

By _____
Waste Management Division

PP803 Rev. 3/88

waste

Dale's Auto Clinic
44434 No.90th E.
Lancaster, Calif. 93535

810.25

June 15, 1989

Waste Management Division
900 So. Fremont
Alhambra, Calif. 91803

Attn: Mr. Sjoberg,

As per conversation Thursday June 15, 11:45 A.M. There should have been only one tank on our billing. The farm tank was gone for years and you said to send this whole thing in to you and you would make correction and send back my proper billing. Thank you very much.

Sincerely,

Dale E. Howard

Dale E. Howard DBA
Dale's Auto Clinic
44434 No.90th E.
Lancaster, Calif. 93535
805 946 1986

RECEIVED
JUN 20 1989
DEPARTMENT OF PUBLIC WORKS
WASTE MANAGEMENT DIVISION

enc. - 1

HAZARDOUS MATERIALS STORAGE PERMIT FEE

FOURTH ANNUAL INSTALLMENT

DATE DUE: 07/17/89 PLEASE PAY THIS AMOUNT: 106.00
PERMIT EFFECTIVE DATE: 05/02/86
FOURTH INSTALLMENT FOR COUNTY ANNUAL FEE: 106.00)
011869 00003452 4B (PRIOR BALANCE FEE: .00)
(CREDIT APPLIED FROM TRUST: .00)

MAKE CHECKS PAYABLE TO: LA COUNTY DEPT OF PUBLIC WORKS

RETURN TO DEPARTMENT OF PUBLIC WORKS (818) 458-3515
CASHIER UNIT
P.O. BOX 1460
ALHAMBRA, CA 91802-1460

****
THIS PORTION MUST BE RETURNED WITH YOUR PAYMENT
* IN THE ENCLOSED ENVELOPE *
****

********* HAZARDOUS MATERIALS STORAGE PERMIT FEE ********

FOURTH ANNUAL INSTALLMENT

DATE DUE: 07/17/89 AMOUNT DUE: 106.00
PERMIT EFFECTIVE DATE: 05/02/86
FOURTH INSTALLMENT FOR 2 TANKS (COUNTY ANNUAL FEE: 106.00
011869 00003452 4B (PRIOR BALANCE FEE: .00
(CREDIT APPLIED FROM TRUST: .00

SITE: 44434 N 090TH ST EAST
LA COUNTY DEPT OF PUBLIC WORK
WASTE MANAGEMENT DIVISION
(818) 458-3515

OWNER:
DALES AUTO CLINIC & FARM
44434 N 090TH ST EAST
LANCASTER CA 93535

******** RETAIN THIS PORTION FOR YOUR RECORDS ********

APPLICATION FOR CLOSURE
HAZARDOUS MATERIALS UNDERGROUND STORAGE
COUNTY OF LOS ANGELES-DEPARTMENT OF PUBLIC WORKS
WASTE MANAGEMENT DIVISION
900 S. FREMONT AVENUE
ALHAMBRA, CALIFORNIA 91803-1331

OCT 5, 1987

For Billing Only

Permit 5748 B
File 11869 R/C 4B
Fee $
Check [ ] Cash [ ]

OWNER: Name DALE'S Auto Clinic Phone
Mailing Address 44434 N. 90th St E City Lancaster State Zip 93535

FACILITY:
Occupant Name Phone
Site Address City Zip
Mailing Address City State Zip
Contact Person Title

CONTRACTOR [ ], complete below: OWNER/OPERATOR AS CONTRACTOR [ ]
Name Phone
State License No. Class

CLOSURE REQUESTED:
[ ] PERMANENT, TANK REMOVAL (See Conditions A and C Attached)
How many underground tanks will remain after this closure?
[ ] PERMANENT, CLOSURE IN PLACE (See Conditions A and D Attached)
[ ] TEMPORARY (See Conditions A and B Attached)

TANK DESCRIPTION: PLOT PLAN ATTACHED [ ] EXISTING HMUSP NO.

Tank No.	Tank Mat'l	Age	Capacity	Materials Stored (Past/Present)
1	-	-	-	-

COMPLETE THE FOLLOWING:

	YES	NO
Has an unauthorized release ever occurred at this site?	[ ]	[ ]
Have structural repairs ever been made to these tanks?	[ ]	[ ]
Will new underground tanks be installed after closure?	[ ]	[ ]
Will any wells, including monitoring wells, be abandoned?	[ ]	[ ]

NOTICE: CONTAMINATED TANKS AND RESIDUES THAT MAY BE LEFT IN TANKS TO BE CLOSED MAY BE A HAZARDOUS WASTE WHICH MUST BE TRANSPORTED AND DISPOSED OF PURSUANT TO CHAPTER 6.5, CALIFORNIA HEALTH & SAFETY CODE. FAILURE TO COMPLY MAY BE PROSECUTED AS A FELONY VIOLATION.

By signature below the applicant certifies that all statements and disclosures above are true and correct and that they have read and agree to abide by this permit and all conditions and limitations attached.

Applicant's Signature Date
(Print Name) Phone
Owner [ ] Operator [ ] Contractor [ ]

TO BE COMPLETED BY THE DEPARTMENT OF PUBLIC WORKS

PURSUANT TO SECTION 11.80.070B, LOS ANGELES COUNTY CODE, PERMISSION IS HEREBY GRANTED TO PROCEED WITH THE CLOSURE DESCRIBED ABOVE SUBJECT TO THE ATTACHED CONDITIONS AND LIMITATIONS [X]. THIS PERMIT EXPIRES 180 DAYS FROM THE DATE BELOW.

T.A. TIDEMANSON
Director of Public Works

By M. MANSOUR Date 6-15-89

PROVISIONAL
HAZARDOUS MATERIALS UNDERGROUND STORAGE PERMIT
COUNTY OF LOS ANGELES
DEPARTMENT OF PUBLIC WORKS
WASTE MANAGEMENT DIVISION
2250 ALCAZAR STREET
LOS ANGELES, CALIFORNIA 90033

PERMIT NO. 3452

EXPIRATION DATE DEC 10 1987

PERMISSION IS HEREBY GRANTED UNDER LACC TITLE 11, DIVISION 4 TO:

011369-AB	<<<<<<<< FILE NUMBER
SALES AUTO CLINIC & FARM	<<<<<<<< PERMITTEE
44434 N 09TH ST EAST	
LANCASTER CA 93535	
RE: 44434 N 09TH ST EAST	<<<<<<<< FACILITY ADDRESS

TO STORE HAZARDOUS MATERIALS IN UNDERGROUND TANK(S) LOCATED AT THE FACILITY ABOVE.

NUMBER OF PERMITTED TANKS: 2

THIS PROVISIONAL PERMIT IS SUBJECT TO THE FOLLOWING REQUIREMENTS:

PART A — GENERAL CONDITIONS AND LIMITATIONS (ATTACHED).

PART B — AUTHORIZED HAZARDOUS MATERIAL STORAGE TANKS (ATTACHED).

PART C — SPECIFIC CONDITIONS AND LIMITATIONS:

1. THE PERMITTEE SHALL SUBMIT FOR APPROVAL AND IMPLEMENT A LEAK DETECTION PROGRAM (LDP) AND A TANK MONITORING PROGRAM (TMP) PREPARED IN ACCORDANCE WITH "UNDERGROUND STORAGE OF HAZARDOUS MATERIALS - GUIDELINES FOR EXISTING FACILITIES, OCTOBER 1986."

2. THE FOLLOWING TIME SCHEDULE SHALL APPLY TO SUBMITTALS REQUIRED BY THIS PROVISIONAL PERMIT:

   a. PERMIT FEE DUE BY (SEE INVOICE) to be billed

   b. TANK INTEGRITY TEST RESULTS DUE BY SEP 10 1987

   c. PROPOSALS FOR LDP AND TMP DUE BY SEP 10 1987

3. PERMIT EFFECTIVE DATE 5-2-86
   NOTE: THE EFFECTIVE DATE IS DETERMINED BY ORIGINAL DATE OF PERMIT APPLICATION.

PART D -- SPECIAL CONDITIONS AND LIMITATIONS ATTACHED. YES [ ] NO [x]

This Provisional Permit is valid only for the continued operation of tanks providing suitable storage and expires six (6) months from the date of issue. Permittee has until the expiration date to complete an approved LDP and to install and be in compliance with an approved TMP. Upon full compliance with the approved LDP and TMP and all other conditions and limitations, this Provisional Permit will be replaced by a full term Operational Permit for the remainder of the unexpired five (5) year term from the effective date unless otherwise noted in Part D above.

T. A. TIDEMANSON
DIRECTOR OF PUBLIC WORKS

BY _____ JUN 10 1987
WASTE MANAGEMENT DIVISION

HAZARDOUS MATERIALS UNDERGROUND STORAGE PERMIT

PART A — GENERAL CONDITIONS AND LIMITATIONS

TERM OF PERMIT

1. The combined provisional and full term operational permits shall be valid for a maximum period of five (5) years from the effective date. However, if the Department of Public Works (DPW) finds that the life expectancy of a facility is less than five (5) years, the DPW may adjust the term of the permit to reflect such a condition.

FEES

2. All fees shall be due and payable on the billing date established by the DPW. Fees not paid within 30 calendar days from the billing date shall be considered delinquent. Delinquent fees shall be subject to a 10 percent penalty fee for each 30 day period beyond the billing date that the fee is due. Permits for which the annual permit fee installment is delinquent for 90 days or more are subject to suspension.

REPORTS AND RECORDS

3. At least annually and due by the anniversary of the effective date of this permit, a written report must be submitted to the Department of Public Works, Waste Management Division, P.O. Box 4089 Terminal Annex, Los Angeles, CA 90051 detailing (but not limited to) the following:

   a. Any changes in the type of hazardous materials stored within the facility.

   b. Any changes in the uses of the underground facility.

   c. Changes or modifications to monitoring procedure.

   d. A detailed account of any unauthorized discharges, and the remedial measures employed.

   e. Any modifications to the facility except for routine required maintenance.

   In the event there has been no change of operation nor unauthorized release, a negative declaration to that effect may be submitted.

   The report or negative declaration shall be certified by the permittee or an authorized representative who is responsible for operations at the facility.

   This report is required by local agencies to satisfy Section 25286(c) of the State of California Health and Safety Code. A report form will be made available to owners and operators to comply with this requirement. The report shall be delinquent 30 days after its due date and as such may result in suspension or revocation of the permit.

4. Every permittee shall provide testing, monitoring (if applicable), and inspections in compliance with this permit and shall maintain records adequate to demonstrate compliance therewith.

5. All required records shall be maintained by the permittee and made available for inspection for a period of time not less than three (3) years from the date of the required annual report for the year during which the testing, monitoring or inspection was performed. Said records shall be made available to the DPW, County Health Officer or Forester and Fire Warden during normal working hours and at any time upon reasonable notice.

RENEWALS AND EXTENSIONS

6. If this is a provisional permit, it may be extended to a maximum of one (1) additional year upon written application stating the reasons for such a request and upon approval by the Director of Public Works.

7. Every application for the renewal of a operational permit or extension of a provisional permit shall be made at least 30 days prior to the expiration date of such permit. If a timely application for renewal has been submitted, the permit shall remain in effect until the DPW has made a decision and any administrative appeal has been exhausted.

APPEALS

8. Any person dissatisfied with the decision of the DPW may appeal the decision, in writing, to the Appeals Board, setting forth with particularity the ground or grounds for the appeal. Such appeal shall be submitted within 30 days after notice of the decision has been given.

ADDITIONAL APPROVALS AND REPAIRS

9. Additional approvals shall be required for any of the following actions:

   a. Tank repair.

   b. Modifications.

   c. Change or addition of hazardous materials stored.

   d. Change of approved monitoring system.

10. Procedures for an application for a permit shall also apply to an application for an additional approval. Each application for an additional approval shall be accompanied by the appropriate fee and supporting information.

11. Any substantial modification or repair of a facility other than minor repairs or emergency repairs shall be in accordance with plans to be submitted to the DPW as an additional approval.

12. Permittee shall carry out routine maintenance, ordinary upkeep and minor repairs in a careful and safe manner. No permit will be required for such maintenance, upkeep and repairs.

13. Permittee may make emergency repairs to a facility in advance of seeking an additional approval whenever an immediate repair is required to prevent or contain an unauthorized discharge or to protect the integrity of the containment. However, within five (5) working days after such emergency repairs have been started, permittee shall seek additional approval by submitting drawings or other information adequate to describe the repairs to the DPW.

CLOSURES, DECONTAMINATION AND NEW CONSTRUCTION

14. Replacement of tanks at an existing facility shall be considered a closure of the tanks to be replaced and a new installation of tanks, and all fees shall be assessed accordingly.

15. No tank shall be abandoned. Tanks which are temporarily out of service, and are intended to be returned to use, must continue to be monitored and inspected. Any tank which is not being monitored and inspected must be closed or removed in a manner approved by the DPW.

16. Prior to any permanent or temporary closures being initiated, an Application for Closure form, the appropriate fee and required supporting information shall be filed with the DPW.

17. Plans for the decontamination of a facility shall be submitted to the DPW for approval no later than 30 days before the commencement of such operations. Other agencies having jurisdiction shall also be notified. These agencies include the California Regional Water Quality Control Board, the Los Angeles County Department of Health Services and the South Coast Air Quality Management District.

18. The installation of a new tank shall require submittal to the DPW of an application for new construction, the appropriate new construction plan clearance fee and supporting information as required by the DPW.

TRANSFERS

19. A Hazardous Materials Underground Storage Permit may be transferred to a new owner of the same facility provided:

   a. The new owner accepts full responsibility for all obligations under this permit at the time of the transfer of the facility.

   b. The transfer shall be documented on a form provided by the DPW within 30 days of transfer of ownership.

   c. The appropriate fee is paid.

UNAUTHORIZED DISCHARGES

20. As soon as any person in charge of a facility or responsible for emergency response for a facility has knowledge of any confirmed or unconfirmed unauthorized discharge of a hazardous material, such person shall take all necessary steps to ensure the discovery, containment, and cleanup of such discharge and shall notify the DPW of the occurrence as required.

21. Any owner or operator who has knowledge of a confirmed unauthorized discharge shall immediately notify the DPW.

22. Within the jurisdiction of the Los Angeles County Fire Department, an unauthorized discharge shall also be reported to the Los Angeles County Forester and Fire Warden, Fire Prevention and Conservation Bureau.

23. The permittee shall institute and complete all actions necessary to remedy the effects of any unauthorized discharge, whether sudden or gradual, and supply information on such actions to the DPW.

24. The continued use of, and permit approval for, existing facilities is subject to review and modification or termination by the DPW whenever there has been any unauthorized discharge. In determining whether continued underground storage in such facility is suitable, the DPW shall consider the age of the facility, the methods of containment, the methods of monitoring, the feasibility of the required retrofit, the concentration of the hazardous materials contained, the severity of potential unauthorized discharge and the suitability of other long term preventive measures.

EVALUATIONS AND INSPECTIONS

25. Whenever the approval or satisfaction of the DPW may be required for a design, monitoring, testing or other technical submittal by a permittee, the DPW may require such permittee, at the permittee's sole cost and expense, to retain a suitable qualified independent engineer, chemist or other appropriate professional consultant acceptable to the DPW, for the purpose of evaluating and rendering a professional opinion respecting the adequacy of such submittal.

26. The DPW may conduct inspections for the purpose of ascertaining compliance by the permittee and effecting corrections of any conditions which would constitute any violation of any statute, code, rule or regulation affecting the underground storage of hazardous materials.

27. Whenever necessary for the purpose of investigation or enforcement, or whenever a representative of the DPW, County Health Officer, or Forester and Fire Warden has reasonable cause to believe that there exists in any structure or upon any premises any condition which constitutes a violation, said representative may enter such structure or premises at all reasonable times to inspect the same, or to perform any duty imposed by law.

28. The permittee shall conduct regular inspections of the facility to assure compliance with this permit and shall maintain logs or file reports in accordance with this permit.

29. The DPW may require the periodic employment of special inspectors to conduct an audit or assessment of permittee's facility to make a hazardous material safety evaluation and to determine compliance.

30. Permittee shall, within 30 days of said evaluation, file with the DPW a plan to implement all recommendations, or shall demonstrate to the satisfaction of the DPW why such recommendations shall not be implemented.

31. The DPW may require that any regular or special inspection by the permittee be made in the presence of a representative of the DPW. The DPW may further require advance notice of not less than 72 hours as to the availability of equipment, material and personnel required to conduct such inspections.

SUSPENSIONS AND REVOCATIONS

32. This permit is subject to suspension or revocation if conditions exist which would justify denial of a permit or if permittee fails to correct unsatisfactory conditions.

33. Failure to adhere to all applicable conditions and limitations of this permit shall constitute a willful violation of Title 11, Division 4 of the Los Angeles County Code and may result in civil or criminal penalties, revocation of this permit, or both.

PART B — TANK DATA
HAZARDOUS MATERIALS UNDERGROUND STORAGE PERMIT NO. 3452

AUTHORIZED HAZARDOUS MATERIAL STORAGE TANKS

TANK NUMBER	CAPACITY (GALLONS)	CONTENTS
1	unknown	unknown
2	unknown	unknown

PETROLEUM TANK TESTING

625 East Avenue J-5 • Lancaster, CA 93535 • (805) 945-3451

October 15, 1987

703[illegible]

Dale's Auto Clinic
44434 N. 90th St. East
Lancaster, CA 93535

ATTN: Dale Howard

SUBJECT: Precision tank test

LOCATION: Dale's Auto Clinic
44434 N. 90th St. East
Lancaster, CA 93535

On October 13, 1987 a precision test was performed using the Horner Ezy-Chek leak detection system. Liquid level changes versus temperature variations indicate the following results.

Tank #1 (a 300 gallon steel waste oil tank set in a cement vault.) complies with current California code requirements.

This concludes our tests findings on this date. Please call if you have any questions. Thank you.

Sincerely,

Edward P. Graves

Edward P. Graves
Petroleum Tank Testing

EPG/eg

625 EAST AVENUE J-5
LANCASTER, CA 93534
(805) 945-3451

EZY-CHECK REPORT AND WORK SHEET

1. **Testing Contractor**

Petroleum Tank Testing
625 East Ave. J-5
Lancaster, CA 93535
(805) 945-3451

2. **Operator Name**

Edward Graves

3. **Owner of Site**

Dale's Auto Clinic
44434 N. 90th St. E.
Lancaster, CA 93535
(805) 946-1986

4. **Owner of Tanks**

Same

(____) _____

5. **Send Invoice and Results to**

Dale's Auto Clinic
44434 N. 90th St. E.
Lancaster, CA 93535
(805) 946-1986

6. **Send Results to**

6A. Department of Public Works
Waste Management
P. O. Box 4089
Los Angeles, CA 90051

6B. _____

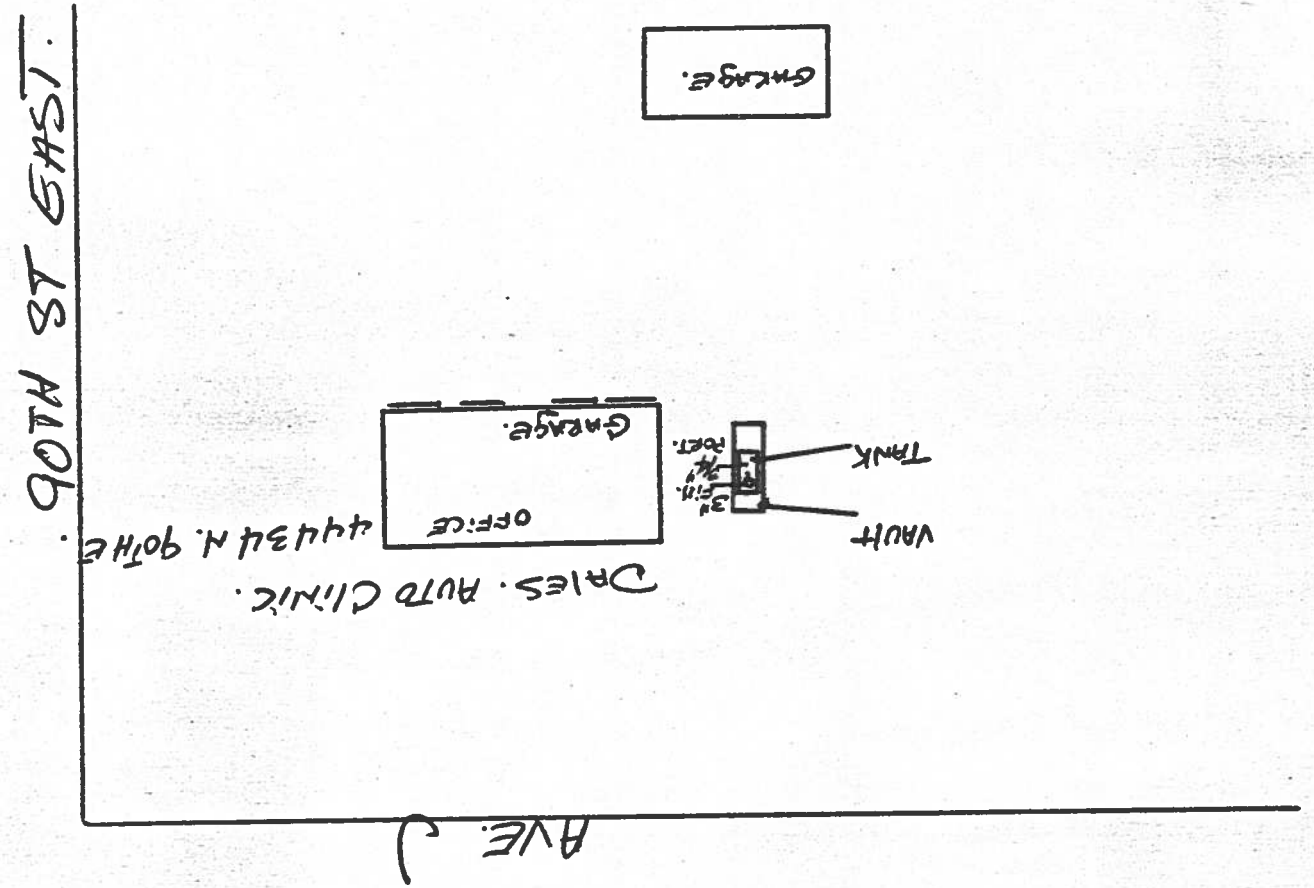
(____) _____

6C. _____

(____) _____

15. Station Layout

North



West

East

South

16. Tank Testing Results

	Product	Capacity	High Test Result	Low Test Result	Certify Tight
1.	WASTE OIL	300	+.00187		yes.
2.					
3.					
4.					
5.					

17. Line Test Results

1. —
2. _____
3. _____
4. _____
5. _____
6. _____

18. Remarks: _____

Operator's Signature Edward P. Hawes.

Date 10-13-87.

10-13-87.

EZY-CHECK WORK SHEET

Tank # 1 Test level High Product Waste oil Capacity 300 Chart cal. .025 + 69 = .00036 (A)

Measured gravity 29 Product temp. 68° Coefficient .00042 Temp. cal. 300 × .00042 = .126 (B)

test	level start	level end	gain + loss −	× (A)	level result	temp. start	temp. end	gain + loss −	× (B)	temp. result	final result	9:00 time
1	33	40	+7	× .00036	+.00252	.081	.091	+.010	× .126	+.00126	+.00126	915
2	40	47	+7	× .00036	+.00252	.091	.103	+.012	× .126	+.00151	+.00101	930
3	47	61	+14	× .00036	+.00504	.103	.121	+.018	× .126	+.00226	+.00278	945
4	61	75	+14	× .00036	+.00504	.121	.148	+.027	× .126	+.00340	+.00164	1000
5	75	87	+12	× .00036	+.00432	.148	.169	+.021	× .126	+.00264	+.00168	1015
6	87	92	+5	× .00036	+.00180	.169	.186	+.017	× .126	+.00214	−.00034	1030
7	92	98	+6	× .00036	+.00216	.186	.209	+.023	× .126	+.00289	−.00073	1045
8	41	55	+14	× .00036	+.00504	.209	.239	+.030	× .126	+.00378	+.00126	1100

Average _____

Station location Dale's Auto Clinic

Address 44434 N. 90th St. E.

City, State Lancaster, CA 93535

Certified tight yes.

Leak rate per hour +.00187

Operator E. Graves

PRECISION TESTING RESULTS

OMPANY NAME Petroleum Tank Testing
ONTACT Edward Graves
DDRESS 625 E. Ave. J-5
TY, STATE Lancaster, CA 93535
LEPHONE (805) 945-3451
NK OWNER Dale's Auto Clinic
ONTACT Dale Howard
DDRESS 44434 N. 90th St. E.
Y, STATE Lancaster, CA 93535
EPHONE (805) 946-1986

TANK FARM LOCATION Dale's Auto Clinic
CONTACT Dale Howard
ADDRESS 44434 N. 90th St. E.
CITY, STATE Lancaster, CA 93535
TELEPHONE (805) 946-1986
OPERATOR Edward Graves
DATE 10-13-87
TELEPHONE (805) 945-3451

The system used for testing is the "EZY CHEK" Leak Detection System. This system was designed to meet the NFPA requirements and is capable of detecting a leak rate of .05 gallon per hour. This criteria of .05 gallon per hour is not to be construed as a permissable leak rate. Rather an accuracy tolerance of the testing equipment and allows for the varibles involved. We assume no responsibility for any product leakage. All results are in gallon per hour.

REMARKS Tank is in a cement Vault
Very good set up.

K#	CITY	PRODUCT IN TANK WHEN TESTED	TYPE OF SYSTEM SUB/SUCTION	STAGE I V/R	TYPE OF STAGE II	TANK DIAMETER	LENGTH OF FILLPIPE	HEIGHT OF LEVEL ABOVE GRADE	DEPTH OF GROUND WATER	PRESSURE ON TANK BOTTOM	DATE & TIME TANK WAS FILLED	COEFFICIENT	TIME TEST STARTED	TIME TEST ENDED	HIGH TEST RESULTS	LOW TEST RESULTS	LINE TEST RESULTS
—	300	WASTE OIL	NONE	—	—	28"	20"	30"	60'+	2.4	10-12-87	.00042	900	1100	+.00187	—	—

DAILY
WASHOOD
GRAPHIC CONTROLS CORPORATION
BUFFALO, NEW YORK
10-13 1987
BR 55140
1
2
3
4
5
6
7
8

NZ Waste
703982

COUNTY OF LOS ANGELES
DEPARTMENT OF PUBLIC WORKS

1540 ALCAZAR STREET
LOS ANGELES, CALIFORNIA 90033
Telephone: (213) 226-8111

THOMAS A. TIDEMANSON, Director

ADDRESS ALL CORRESPONDENCE TO:
P.O. BOX 4089
LOS ANGELES, CALIFORNIA 90051

RECEIVED
NOV 06 1987
DEPARTMENT OF PUBLIC WORKS
ENGINEERING SERVICES DIVISION

850.16

October 5, 1987

IN REPLY PLEASE
REFER TO FILE: I-11869-4B

TT OK.

Mr. Howard
Dale's Auto Clinic
44434 North 90th Street, East
Lancaster, CA 93535

Dear Mr. Howard:

HAZARDOUS MATERIALS UNDERGROUND STORAGE
PERMIT NO. 3452
FACILITY AT: 44434 North 90th Street, East

The Hazardous Materials Underground Storage Provisional Permit sent to you in connection with the above facility is modified as follows:

[ ] The permit is void as of the date of this letter and replaced by the enclosed permit.

[ ] The enclosed Part D, Special Conditions and Limitations, is now part of your permit.

[X] The enclosed Part B, Authorized Hazardous Material Storage Tanks, is now part of your permit, replacing the previous Part B.

[X] Other: Tank Integrity Test results and LDP/TMP proposals due 12/11/87.

If you have any questions concerning this matter, please contact Ms. Nicole Long at (213) 226-4010.

Very truly yours,

T. A. TIDEMANSON
Director of Public Works

By Nicole Long
Waste Management Division

PP802 5/87

ATT-3

COUNTY OF LOS ANGELES

DEPARTMENT OF PUBLIC WORKS

1540 ALCAZAR STREET
LOS ANGELES, CALIFORNIA 90033
Telephone: (213) 226-8111

THOMAS A. TIDEMANSON, Director

ADDRESS ALL CORRESPONDENCE TO:
P.O. BOX 4089
LOS ANGELES, CALIFORNIA 90051

October 5, 1987

IN REPLY PLEASE
REFER TO FILE: I-11869-4B

Mr. Howard
Dale's Auto Clinic
44434 North 90th Street, East
Lancaster, CA 93535

Dear Mr. Howard:

HAZARDOUS MATERIALS UNDERGROUND STORAGE
PERMIT NO. 3452
FACILITY AT: 44434 North 90th Street, East

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Very truly yours,

T. A. TIDEMANSON
Director of Public Works

By Nicole Long
Waste Management Division

PP802 5/87

PART B — TANK DATA
HAZARDOUS MATERIALS UNDERGROUND STORAGE PERMIT NO. 3452

AUTHORIZED HAZARDOUS MATERIAL STORAGE TANKS

TANK NUMBER	CAPACITY (GALLONS)	CONTENTS
1	~~Unknown~~ 300	Waste Oil

WASTE

August 26, 1987

810.25

County of Los Angeles
Dept. of Public Works
Waste Management Division
2250 Alcazar St.
Los Angeles, Calif. 90033

NL
702574

RECEIVED
SEP 2 1987
DEPARTMENT OF PUBLIC WORKS
ENGINEERING SERVICES DIVISION

File # 11869-4B
Permit # 3452
Re. 44434 No. 90th E.
Underground Storage Tank

To Whom It May Concern:

The underground storage tank which was registered to Dale's Auto Clinic and Farm, which was Tank A, is not underground and no longer exists.
Tank B is for oil storage and is in solid concrete confinement (vault). An inspection can be made visably. It has no access to the soil.

Do we have a closure permit?
CWD

Sincerely,

Dale E. Howard DBA
Dale E. Howard
Dale's Auto Clinic
44434 No. 90th E.
Lancaster, Calif. 93535

(805) 946-1986

Waste

August 26, 1987

RECEIVED
OCT 5 1987
DEPARTMENT OF PUBLIC WORKS
ENGINEERING SERVICES DIVISION

810.25
9/30/87

County of Los Angeles
Dept. of Public Works
Waste Management Division
2250 Alcazar St.
Los Angeles, Calif. 90033

I-11869

File # 11869-4B
Permit # 3452
Re. 44434 No. 90th E.
Underground Storage Tank

To Whom It May Concern:

The underground storage tank which was registered to Dale's Auto Clinic and Farm, which was Tank A, is not underground and no longer exists.
Tank B is for oil storage and is in solid concrete confinement (vault). An inspection can be made visably. It has no access to the soil.

Sincerely,

Dale E. Howard DBA

Dale E. Howard

Dale's Auto Clinic
44434 No. 90th E.
Lancaster, Calif. 93535

Inc. one ck 16-4
$136.00
9-30-87
il

Paid the fee

Paid

I 11869

STATE USE ONLY

STATE ID # 140 9010-4 08

APPLICATION FOR PERMIT TO OPERATE UNDERGROUND STORAGE TANK

( ) 01 NEW PERMIT ( ) 05 RENEWED PERMIT ( ) 07 TANK CLOSED ( ) 09 DELETE FROM FILE (NO FEE)
( ) 02 CONDITIONAL PERMIT ( ) 06 AMENDED PERMIT ( ) 08 MINOR CHANGE (NO SURCHARGE)

I OWNER Dale E. Howard DBA Dales Auto Clinic

NAME(CORPORATION, INDIVIDUAL OR PUBLIC AGENCY)	PUBLIC AGENCY ONLY
Dales Auto Clinic	( ) 01 FED ( ) 02 STATE ( ) 03 LOCAL

STREET ADDRESS	CITY	STATE	ZIP
44434 No 90th St East	Lancaster	Calif	93535

II FACILITY

FACILITY NAME	DEALER/FOREMEN/SUPERVISOR
Dales Auto Clinic	Dale E. Howard
STREET ADDRESS: 44434 No 90 East	NEAREST CROSS STREET: Ave J
CITY: Lancaster Calif.	COUNTY: Los Angeles / ZIP:
MAILING ADDRESS: 44434 No 90 East	CITY: Lancaster / STATE: Ca / ZIP: 93535
PHONE W/AREA CODE: 805-946 1986	TYPE OF BUSINESS: ( ) 01 GASOLINE STATION ( ) 02 OTHER

NUMBER OF CONTAINERS	RURAL AREAS ONLY :	TOWNSHIP	RANGE	SECTION
1	✓			

III 24 HOUR EMERGENCY CONTACT PERSON

DAYS: NAME(LAST NAME FIRST) AND PHONE W/AREA CODE	NIGHTS: NAME(LAST NAME FIRST) AND PHONE W/AREA CODE
Howard, Roy 805 946-1228	Howard Roy 805 946-2638

COMPLETE THE FOLLOWING ON A SEPARATE FORM FOR EACH CONTAINER

IV DESCRIPTION

A. (X) 01 TANK ( ) 02 OTHER:	CONTAINER NUMBER BL 3865
B. MANUFACTURER (IF APPROPRIATE): YEAR MFG: 1946	C. YEAR INSTALLED 1984 ( ) UNKNOWN
D. CONTAINER CAPACITY: 300 GALLONS ( ) UNKNOWN	E. DOES THE CONTAINER STORE: (X) 01 WASTE ( ) 02 PRODUCT

F. DOES THE CONTAINER STORE MOTOR VEHICLE FUEL OR WASTE OIL ? (X) 01 YES ( ) 02 NO IF YES CHECK APPROPRIATE BOX(ES):
( ) 01 UNLEADED ( ) 02 REGULAR ( ) 03 PREMIUM ( ) 04 DIESEL (X) 05 WASTE OIL ( ) 06 OTHER

V CONTAINER CONSTRUCTION

A. THICKNESS OF PRIMARY CONTAINMENT: .280 ( ) GAUGE ( ) INCHES ( ) CM ( ) UNKNOWN

B. (X) 01 VAULTED (LOCATED IN AN UNDERGROUND VAULT) ( ) 02 NON-VAULTED ( ) 03 UNKNOWN

C. ( ) 01 DOUBLE WALLED (X) 02 SINGLE WALLED ( ) 03 LINED

D. (X) 01 CARBON STEEL ( ) 02 STAINLESS STEEL ( ) 03 FIBERGLASS ( ) 04 POLYVINYL CHLORIDE ( ) 05 CONCRETE
( ) 06 ALUMINUM ( ) 07 STEEL CLAD ( ) 08 BRONZE ( ) 09 COMPOSITE ( ) 10 NON-METALLIC
( ) 12 UNKNOWN ( ) 13 OTHER:

STATE ID NUMBER

CONTAINER CONSTRUCTION

E. ( ) 01 RUBBER LINED ( ) 02 ALKYD LINING ( ) 03 EPOXY LINING ( ) 04 PHENOLIC LINING ( ) 05 GLASS LINING
( ) 07 UNLINED (X) 08 UNKNOWN ( ) 09 OTHER:

F. ( ) 01 POLYETHLENE WRAP ( ) 02 VINYL WRAPPING ( ) 03 CATHODIC PROTECTION (X) 04 UNKNOWN ( ) 05 NONE
( ) 06 TAR OR ASPHALT ( ) 09 OTHER:

VI PIPING

A. ABOVEGROUND PIPING: ( ) 01 DOUBLE-WALLED PIPE ( ) 02 CONCRETE-LINED TRENCH ( ) 03 GRAVITY
(CHECK APPROPRIATE BOX(ES) ( ) 04 PRESSURE ( ) 05 SUCTION ( ) 06 UNKNOWN ( ) 07 NONE

B. UNDERGROUND PIPING: ( ) 01 DOUBLE-WALLED PIPE ( ) 02 CONCRETE-LINED TRENCH ( ) 03 GRAVITY
(CHECK APPROPRIATE BOX(ES) ( ) 04 PRESSURE ( ) 05 SUCTION ( ) 06 UNKNOWN ( ) 07 NONE

VII LEAK DETECTION

(X) 01 VISUAL ( ) 02 STOCK INVENTORY ( ) 04 VAPOR SNIFF WELLS ( ) 05 SENSOR INSTRUMENT
( ) 06 GROUND WATER MONITORING WELLS ( ) 07 PRESSURE TEST ( ) 09 NONE ( ) 10 OTHER:

VIII CHEMICAL COMPOSITION OF MATERIALS STORED IN UNDERGROUND CONTAINERS

IF YOU CHECKED YES TO IV-F YOU ARE NOT REQUIRED TO COMPLETE THIS SECTION

CURRENTLY STORED	PREVIOUSLY STORED	DELETE	CAS# (IF KNOWN)	CHEMICAL (DO NOT USE COMMERCIAL NAME)
( ) 01	( ) 02	( ) 03		
( ) 01	( ) 02	( ) 03		
( ) 01	( ) 02	( ) 03		
( ) 01	( ) 02	( ) 03		
( ) 01	( ) 02	( ) 03		
( ) 01	( ) 02	( ) 03		
( ) 01	( ) 02	( ) 03		
( ) 01	( ) 02	( ) 03		
( ) 01	( ) 02	( ) 03		
( ) 01	( ) 02	( ) 03		

IS CONTAINER LOCATED ON AN AGRICULTURAL FARM? ( ) 01 YES (X) 02 NO

THIS FORM HAS BEEN COMPLETED UNDER THE PENALTY OF PERJURY AND, TO THE BEST OF MY KNOWLEDGE, IS TRUE AND CORRECT.

PERSON FILING (SIGNATURE)	PHONE W/AREA CODE
Dale E. Howard	805 946 1986

FOR LOCAL AGENCY USE ONLY

ADMINISTRATING AGENCY	CITY CODE	COUNTY CODE
Los Angeles County Dept of Public Works		19

CONTACT PERSON	PHONE W/AREA CODE
Carl Sjoberg	(213) 226-4000

DATE OF LAST INSPECTION	IN COMPLIANCE ( ) 01 YES ( ) 02 NO	PERMIT APPROVAL DATE	TRANSACTION DATE	LOCAL PERMIT ID #

INSPECTION REPORT

Los Angeles County Fire Department - Health Hazardous Materials Division
Certified Unified Program Agency - Participating Agency
North District Office
14425 Olive View Drive, Sylmar, CA 91342
Tel: (818) 364-7120 / Fax: (818) 364-7127
www.fire.lacounty.gov/hhmd

Business: DRC PUMP SYSTEMS INC			**Inspection Date:** 01/25/2021
Address: 44434 90TH ST E		**City/State:** LANCASTER, CA 93535	**Telephone:** (661) 946-9444
Owner: JOHN HOUGHTON		**Email:**	
FA #: FA0000611	**PR:** PR0018800	**Program Element:** HW GEN, 0-2 EMPLOYEES	**Inspection Type:** ROUTINE INSPECTION
CERS ID #: 10266970		**STATE EPA ID #:** CAL000431867 **FEDERAL EPA ID #:**	

☒ - No violations observed at the time of inspection.

OUT = Out of Compliance COS = Corrected on Site RPT = Repeat Violation

OVERALL INSPECTION COMMENTS

Consent Given By:
John Houghton,
Owner

- No hazardous waste generator violations observed. Facility has permanently closed for business and removed all hazardous materials from the property.

Attention: Your facility may be subject to reinspection at any time to verify compliance. Failure to comply with the violations cited may result in reinspection fees, late submittal and noncompliance penalty for CERS, permit revocation, and/or administrative/civil/criminal penalties per Los Angeles County Code. Any time granted for correction of the violation(s) does not preclude any enforcement action by this Department or other agencies.

It is improper and illegal for any County officer, employee or inspector to solicit bribes, gifts, or gratuities in connection with performing their official duties. Improper solicitations include requests for anything of value such as cash, discounts, free services, paid travel or entertainment, or tangible items such as food or beverages. Any attempt by a County employee to solicit bribes, gifts or gratuities for any reason should be reported immediately to either the County manager responsible for supervising the employee or the Fraud hotline at (800) 544-6861 or www.lacountyfraud.org. YOU MAY REMAIN ANONYMOUS.

Signatures

[redacted]

Hazardous Materials Specialist III

PREVIOUS INSPECTIONS

Activity Date	PE	Rercord ID	Serial No.	Group Code	Service	Result	Action	Activity Min	Travel Min	Inspector ID
08/05/2020	3099	FA0000611	DA0976501		057	00	00	1	0	EE9999998
01/25/2021	3001	PR0056469	DA0991958		052	00	00	30	0	EE0000180
01/25/2021	1000	PR0018800	DA0991961		052	00	00	30	0	EE0000180
01/25/2021	1000	PR0018800	DA0991967		051	00	00	45	0	EE0000180
01/25/2021	1000	PR0018800	DA5WW0TH5		012	06	09	15	0	EE0000180
01/25/2021	3001	PR0056469	DA8UTRPZU		012	06	09	15	0	EE0000180
01/25/2021	3001	PR0056469	DA9NMZTSA	IE2I-XBYZ	001	01	00	45	0	EE0000180
01/25/2021	1000	PR0018800	DAK0BDXVU	IE2I-XBYZ	001	01	00	45	0	EE0000180
01/25/2021	1000	CO0035048	DASAHMHW4		003	17	17	30	0	EE0000180

VIOLATIONS LIST

Open	Activity Date	Program Element	Viol Status	Service	Result	Action	Violation Degree	Comply on Date	Description

LOG SHEET

INSPECTOR FIELD NOTES

INSPECTION REPORT

Los Angeles County Fire Department - Health Hazardous Materials Division
Certified Unified Program Agency - Participating Agency
North District Office
14425 Olive View Drive, Sylmar, CA 91342
Tel: (818) 364-7120 / Fax: (818) 364-7127
www.fire.lacounty.gov/hhmd

Business: DRC PUMP SYSTEMS INC			**Inspection Date:** 01/25/2021
Address: 44434 90TH ST E		**City/State:** LANCASTER, CA 93535	**Telephone:** (661) 946-9444
Owner: JOHN HOUGHTON		**Email:**	
FA #: FA0000611	**PR:** PR0056469	**Program Element:** HM HANDLER, FEE GROUP 01	**Inspection Type:** ROUTINE INSPECTION
CERS ID #: 10266970			

☒ - No violations observed at the time of inspection.

OUT = Out of Compliance COS = Corrected on Site RPT = Repeat Violation

OVERALL INSPECTION COMMENTS

Consent Given By:
John Houghton,
Owner

- No hazardous materials handler violations observed. Facility has permanently closed for business and removed all hazardous materials from the property.

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Signatures

[redacted]
John Houghton
Owner

[redacted]
Chris Swearingin
Hazardous Materials Specialist III

PREVIOUS INSPECTIONS

Activity Date	PE	Rercord ID	Serial No.	Group Code	Service	Result	Action	Activity Min	Travel Min	Inspector ID
08/05/2020	3099	FA0000611	DA0976501		057	00	00	1	0	EE9999998
01/25/2021	3001	PR0056469	DA0991958		052	00	00	30	0	EE0000180
01/25/2021	1000	PR0018800	DA0991961		052	00	00	30	0	EE0000180
01/25/2021	1000	PR0018800	DA0991967		051	00	00	45	0	EE0000180
01/25/2021	1000	PR0018800	DA5WW0TH5		012	06	09	15	0	EE0000180
01/25/2021	3001	PR0056469	DA8UTRPZU		012	06	09	15	0	EE0000180
01/25/2021	3001	PR0056469	DA9NMZTSA	IE2I-XBYZ	001	01	00	45	0	EE0000180
01/25/2021	1000	PR0018800	DAK0BDXVU	IE2I-XBYZ	001	01	00	45	0	EE0000180
01/25/2021	1000	CO0035048	DASAHMHW4		003	17	17	30	0	EE0000180

VIOLATIONS LIST

Open	Activity Date	Program Element	Viol Status	Service	Result	Action	Violation Degree	Comply on Date	Description

LOG SHEET

INSPECTOR FIELD NOTES

INSPECTION REPORT

Los Angeles County Fire Department - Health Hazardous Materials Division
Certified Unified Program Agency - Participating Agency
North District Office
14425 Olive View Drive, Sylmar, CA 91342
Tel: (818) 364-7120 / Fax: (818) 364-7127
www.fire.lacounty.gov/hhmd

Business: DRC PUMP SYSTEMS INC			**Inspection Date:** 10/24/2017
Address: 44434 90TH ST E		**City/State:** LANCASTER, CA 93535	**Telephone:** (661) 946-9444
Owner: JOHN HOUGHTON		**Email:**	
FA #: FA0000611	**PR:** PR0018800	**Program Element:** HW GEN, 0-2 EMPLOYEES	**Inspection Type:** ROUTINE INSPECTION
CERS ID #: 10266970		**STATE EPA ID #:** CAL000431867 **FEDERAL EPA ID #:**	

☐ - No violations observed at the time of inspection.

This document constitutes a Summary of Violations reported by the inspector; and a Notice to Comply for all cited minor violations.

OUT = Out of Compliance COS = Corrected on Site RPT = Repeat Violation

Obtained and/or maintained an active EPA ID number (unless exempted HSC 25143.13)

■ OUT ☐ COS ☐ RPT

MINOR

COMPLY BY: 11/23/2017

Violation Description:

Failure to obtain or maintain an Identification Number prior to treating, storing, disposing of, transporting or offering for transportation any hazardous waste. Maintenance of ID numbers must be annually verified by using the Electronic Verification Questionnaire (eVQ). *Inspector verify by reviewing HWTS or contacting DTSC Business Operations unit at evq@dtsc.ca.gov. 22 CCR 12 66262.18(a); HSC 6.5 25205.16(b)

Violation Comments:

OBSERVATION: The generator has not obtained an active EPA ID number to manage hazardous waste. A hazardous waste generator shall not treat, store, dispose of, transport or offer for transportation, hazardous waste without an active EPA ID number.

CORRECTIVE ACTION: Submit documentation to the CUPA demonstrating that you have obtained an EPA ID number.

Disposed of hazardous waste within 180 days of accumulation

■ OUT ☐ COS ☐ RPT

MINOR

COMPLY BY: 11/23/2017

Violation Description:

Failure to send hazardous waste offsite for treatment, storage, or disposal within 180 days (or 270 days if waste is transported over 200 miles) for a generator who generates less than 1000 kilograms per month and the quantity of hazardous waste accumulated onsite never exceeds 6,000 kilograms; or, failure to send acute hazardous waste offsite within 90 days once one kilogram of such waste is generated. 22 CCR 12 66262.16(b)(1), 66262.16(b)(8), 66262.16(c), 66262.16(g)(2); HSC 6.5 25123.3(h)(1)

Violation Comments:

OBSERVATION: 3 x 55-gallon steel drums containing approximately 120 gallons of Contaminated Waste Oil located outside the North East corner of the maintenance shop were observed unlabeled and accumulating on-site for an unknown amount of time per Mr. Houghton, and a manifest/receipt demonstrating disposal within the past 180 days was not available.

CORRECTIVE ACTION: Dispose of all hazardous waste and submit a copy of the manifest/receipt to the CUPA.

Los Angeles County Fire Department - Health Hazardous Materials Division
Certified Unified Program Agency - Participating Agency
North District Office
14425 Olive View Drive, Sylmar, CA 91342
Tel: (818) 364-7120 / Fax: (818) 364-7127
www.fire.lacounty.gov/hhmd

Business:	**FA #:**	**Date:**
DRC PUMP SYSTEMS INC	FA0000611	10/24/2017

OUT = Out of Compliance COS = Corrected on Site RPT = Repeat Violation

Labeled all containers or portable tanks containing hazardous waste — MINOR

■ OUT ☐ COS ☐ RPT — COMPLY BY: 11/23/2017

Violation Description:

Failure to properly label hazardous waste accumulation containers and portable tanks with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date. 22 CCR 12 66262.16(b)(4)(F), 66262.17(a)(5)(A)

Violation Comments:

OBSERVATION: 3 x 55-gallon steel drums with Contaminated Waste Oil located outside North East corner of maintenance shop were observed without hazardous waste labels. Provided labels to Mr. Houghton.

CORRECTIVE ACTION: Submit a photo to the CUPA demonstrating that the containers listed above have been properly labeled.

Accumulated hazardous waste in containers that are in good condition — MINOR

■ OUT ☐ COS ☐ RPT — COMPLY BY: 11/23/2017

Violation Description:

Failure to: (1) Accumulate hazardous waste in a container that is in good condition. (2) Immediately transfer the hazardous waste from a leaking container to a container that is in good condition; or (3) Immediately manage the waste in some other way that complies with waste management requirements. 22 CCR 12 66262.16(b)(2)(A), 66262.15(a)(1)

Violation Comments:

OBSERVATION: 1 x 55-gallon steel drum of Contaminated Waste Oil located outside North East corner of maintenance shop was observed heavily rusted.

CORRECTIVE ACTION: Submit photos to the CUPA demonstrating the waste listed above has been transferred into a container that is in good condition or submit a manifest/receipt demonstrating the waste has been properly disposed of by a registered hazardous waste transporter.

OVERALL INSPECTION COMMENTS

Consent Given By:
John Houghton,
Owner

Attention: Your facility may be subject to reinspection at any time to verify compliance. Failure to comply with the violations cited may result in reinspection fees, late submittal and noncompliance penalty for CERS, permit revocation, and/or administrative/civil/criminal penalties per Los Angeles County Code. Any time granted for correction of the violation(s) does not preclude any enforcement action by this Department or other agencies.

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Los Angeles County Fire Department - Health Hazardous Materials Division
Certified Unified Program Agency - Participating Agency
North District Office
14425 Olive View Drive, Sylmar, CA 91342
Tel: (818) 364-7120 / Fax: (818) 364-7127
www.fire.lacounty.gov/hhmd

Business:	**FA #:**	**Date:**
DRC PUMP SYSTEMS INC	FA0000611	10/24/2017

Signatures

[redacted]

Chris Swearengin
Hazardous Materials Specialist III

CERTIFICATON OF COMPLIANCE

	Los Angeles County Fire Department - Health Hazardous Materials Division **Certified Unified Program Agency - Participating Agency**	
Business:	**FA #:** Pending	**Date:**

The violations cited on the inspection report must be corrected, or disputed, not more than 30 days from the date of receipt of the report; or as otherwise noted. Please submit this certification, and/or any other documentation in support of your claim compliance, to this department in order to avoid penalties. Failure to submit compliance documentation may result in the reinspection of your facility and associated fees pursuant to Los Angeles County Ordinance Section 12.50.131.

VIOLATION(S)	STATEMENT OF CORRECTIVE (OR PROPOSED) ACTIONS:	DATE

I certify under penalty of law that the violations cited on this report have been corrected as indicated. I have personally examined the documentation submitted as proof of compliance and I believe the information to be true, accurate, and complete. I am authorized to file this certification for the facility, and am aware that there are significant penalties for submitting false information pursuant to CA Health & Safety Code Section 25191(b)(1).

Print Name

Title

Signature

Date

Los Angeles County Fire Department - Health Hazardous Materials Division
Certified Unified Program Agency - Participating Agency
North District Office
14425 Olive View Drive, Sylmar, CA 91342
Tel: (818) 364-7120 / Fax: (818) 364-7127
www.fire.lacounty.gov/hhmd

Business:	**FA #:**	**Date:**
DRC PUMP SYSTEMS INC	FA0000611	10/24/2017

PREVIOUS INSPECTIONS

Activity Date	PE	Rercord ID	Serial No.	Group Code	Service	Result	Action	Activity Min	Travel Min	Inspector ID
08/05/2020	3099	FA0000611	DA0976501		057	00	00	1	0	EE9999998
01/25/2021	3001	PR0056469	DA0991958		052	00	00	30	0	EE0000180
01/25/2021	1000	PR0018800	DA0991961		052	00	00	30	0	EE0000180
01/25/2021	1000	PR0018800	DA0991967		051	00	00	45	0	EE0000180
01/25/2021	1000	PR0018800	DA5WW0TH5		012	06	09	15	0	EE0000180
01/25/2021	3001	PR0056469	DA8UTRPZU		012	06	09	15	0	EE0000180
01/25/2021	3001	PR0056469	DA9NMZTSA	IE2I-XBYZ	001	01	00	45	0	EE0000180
01/25/2021	1000	PR0018800	DAK0BDXVU	IE2I-XBYZ	001	01	00	45	0	EE0000180
01/25/2021	1000	CO0035048	DASAHMHW4		003	17	17	30	0	EE0000180

VIOLATIONS LIST

Open	Activity Date	Program Element	Viol Status	Service	Result	Action	Violation Degree	Comply on Date	Description

LOG SHEET

INSPECTOR FIELD NOTES

I. OPENING CONFERENCE
The inspection was conducted on 10/24/17 by Chris Swearengin, HMS I. Consent to conduct inspection was given by John Houghton, Owner. Explained to Mr. Houghton that the purpose of the visit was to conduct the routine hazardous materials and hazardous waste inspections. Mr. Houghton also gave consent to obtain pictures during the inspection. Facility is a repair and maintenance shop that works on water well pumps and equipment for farms. They conduct some maintenance and repairs to equipment on-site and at off-site locations.
# of employees: 4

II. WALKTHROUGH
Walk through was conducted with Mr. Houghton.
HazMat Observed On Site: small cylinders of propane, acetylene and oxygen. Drum of lubricating oil for water well pump shaft. Lube oil belongs to a customer and Mr. Houghton will have them pick up the drum.
HazWaste Observed On Site: Drums of contaminated waste oil and hydraulic oil. Hazardous waste drums stored outside at North East corner of property along rear wall of maintenance garage. Drums appeared rusted/deteriorated and without labels. Mr. Houghton stated the drums were most likely waste and no longer usable, and that they had been there for a while.

III. DOCUMENTS
HazMat - CERS Review:
- Emergency contact information was verified and accurate.
- Hazardous materials inventory in CERS did not match the inventory observed on-site.
- Site Map uploaded through CERS contained all required information.
- Emergency Response & Training plans submitted through CERS were reviewed.

Business:	FA #:	Date:
DRC PUMP SYSTEMS INC	FA0000611	10/24/2017

- Employee training conducted and records maintained.
- Annual HMBP certification completed on 3/14/17.

HazWaste –
- Facility does not currently have an active EPA ID number.
- Facility is a CESQG who generates <27 gallons of hazardous waste per month.
- Manifests were not available as facility has not shipped any hazardous waste off-site in past 3 years.
- Emergency information was posted on-site.

IV. CLOSING CONFERENCE
Discussed with Mr. Houghton the following: accumulation time limits, container management standards, CERS reporting requirements and empty container management.

V. VIOLATIONS
Notice of Violation issued for: accumulation time limit exceeded, damaged/deteriorated containers, failure to label containers, failure to obtain EPA ID number, failure to update inventory in CERS, failure to properly manage empty containers and abandoning an unusable cylinder full of propane with broken valve on property.

INSPECTION REPORT

Los Angeles County Fire Department - Health Hazardous Materials Division
Certified Unified Program Agency - Participating Agency
North District Office
14425 Olive View Drive, Sylmar, CA 91342
Tel: (818) 364-7120 / Fax: (818) 364-7127
www.fire.lacounty.gov/hhmd

Business: DRC PUMP SYSTEMS INC			**Inspection Date:** 10/24/2017
Address: 44434 90TH ST E		**City/State:** LANCASTER, CA 93535	**Telephone:** (661) 946-9444
Owner: JOHN HOUGHTON		**Email:**	
FA #: FA0000611	**PR:** PR0056469	**Program Element:** HM HANDLER, FEE GROUP 01	**Inspection Type:** ROUTINE INSPECTION
CERS ID #: 10266970			

☐ - No violations observed at the time of inspection.

This document constitutes a Summary of Violations reported by the inspector; and a Notice to Comply for all cited minor violations.

OUT = Out of Compliance COS = Corrected on Site RPT = Repeat Violation

Updated within 30 days of 100% increase or addition of chemical; change of address/ownership/name...

■ OUT ☐ COS ☐ RPT

MINOR

COMPLY BY: 11/23/2017

Violation Description:

Failure to electronically update business plan within 30 days of any one of the following events: 1) A 100 percent or more increase in the quantity of a previously disclosed material. 2) Any handling of a previously undisclosed hazardous materials at or above reportable quantities. 3) A change of business address, business ownership, or business name. 4) A substantial change in the handler's operations that requires modification to any portion of the business plan. HSC 6.95 25508.1(a)-(f)

Violation Comments:

OBSERVATION: The business failed to update business plan within 30 days when handling a previously undisclosed hazardous material, or a 100% or more increase in a previously disclosed material. Observed the following on-site: 1 x 55-gallon drum labeled "Sonrise Farms" that contains lubricating oil for water well pump equipment per Mr. Houghton stored on South side of storage garage, and 3 x 55-gallon drums that contain Contaminated Waste Oil per Mr. Houghton stored outside the North East corner of the maintenance shop. Facility has 2 x 130 cubic foot cylinders for Acetylene and 3 x 282 cubic foot cylinders of Oxygen on-site in the maintenance shop.

CORRECTIVE ACTION: Update all submittal elements effected by the changes and electronically submit the updated information within 30 days. Mr. Houghton also discussed removing all of the drums with new or waste oil from the property. If materials/wastes are removed and no longer stored on-site at 55 gallons or greater total capacity, the materials/wastes do not need to be reported in CERS but documentation of removal must be submitted to this division.

Operations/Maintenance - General

■ OUT ☐ COS ☐ RPT

MINOR

COMPLY BY: 11/23/2017

Violation Description:

Operations/Maintenance - General 19 CCR 1 Multiple Sections; HSC 6.95 Multiple Sections

Violation Comments:

OBSERVATION: 2 x 5-gallon empty propane cylinders stored along outside of maintenance shop, 1 x 55-gallon empty drum outside North East corner of maintenance shop and 1 x 55-gallon empty drum outside West side of maintenance garage.

CORRECTIVE ACTION: Each empty container larger than 5 gallons that previously held a hazardous material must be marked with the date it was emptied and be shipped for recycling, reconditioning, or reclamation of its scrap value – or managed on site in such a manner – within one year of being emptied. 22CCR 11 66261.7

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Business:	**FA #:**	**Date:**
DRC PUMP SYSTEMS INC	FA0000611	10/24/2017

OUT = Out of Compliance COS = Corrected on Site RPT = Repeat Violation

Abandonment/Illegal Disposal/Unauthorized Treatment - General	MINOR
■ OUT ☐ COS ☐ RPT	COMPLY BY: 11/23/2017

Violation Description:

Abandonment/Illegal Disposal/Unauthorized Treatment - General 19 CCR 41 Multiple Sections; HSC 6.95 Multiple Sections

Violation Comments:

OBSERVATION: 1 x 7.5-gallon full cylinder of Propane stored outside the West side of the maintenance shop that has been stored there for an undetermined amount of time per Mr. Houghton. The cylinder has a broken valve and is not able to be used to dispense Propane in its current condition. The facility cannot use the Propane in the cylinder and they have not determined how to dispose of the cylinder or transfer the Propane to a new cylinder.

CORRECTIVE ACTION: Determine whether the Propane can be safely transferred into a new cylinder by a properly trained Propane technician or facility, or have the cylinder properly disposed of by a registered hazarodus waste transporter at a permitted Treatment, Storage, Disposal Facility (TSDF).

OVERALL INSPECTION COMMENTS

Consent Given By:
John Houghton,
Owner

Attention: Your facility may be subject to reinspection at any time to verify compliance. Failure to comply with the violations cited may result in reinspection fees, late submittal and noncompliance penalty for CERS, permit revocation, and/or administrative/civil/criminal penalties per Los Angeles County Code. Any time granted for correction of the violation(s) does not preclude any enforcement action by this Department or other agencies.

It is improper and illegal for any County officer, employee or inspector to solicit bribes, gifts, or gratuities in connection with performing their official duties. Improper solicitations include requests for anything of value such as cash, discounts, free services, paid travel or entertainment, or tangible items such as food or beverages. Any attempt by a County employee to solicit bribes, gifts or gratuities for any reason should be reported immediately to either the County manager responsible for supervising the employee or the Fraud hotline at (800) 544-6861 or www.lacountyfraud.org. YOU MAY REMAIN ANONYMOUS.

Signatures

[redacted]

John Houghton
Owner

[redacted]

Chris Swearengin
Hazardous Materials Specialist III

CERTIFICATON OF COMPLIANCE

	Los Angeles County Fire Department - Health Hazardous Materials Division **Certified Unified Program Agency - Participating Agency**	
Business:	**FA #:** Pending	**Date:**

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DRC PUMP SYSTEMS INC	FA0000611	10/24/2017

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Case Update / Phone Log

HAZ MAT

Form #CP1
rev 4.0 • 05/93

Los Angeles County
Fire Department
Prevention Bureau

Health Hazardous
Materials Division

Company/Case Name: DALE'S AUTO CLINIC | Log # | Page of

Date	HMS Init.	Findings/Remarks
6/26/95	D.C	Performed Routine inspection of facility. No NOV issued, since the owner contacted Butler o/ for pickup of the (2) 55 gal drums during my visit.
7/20/95	BJW	File Reviewed
AUG 3 1995	mc	Data entered.
11/16/95	MOSS	SITE INSPECTION
11/30/95	DSY	Reviewed file DSY
NOV 30 1999	Q	data entered
03/18/05	WR	001/012 - new business & DBA at the above site address. 5302 Submitted to update facility information. complaint investigation is verified & abated. DRC Pump Systems, Inc is a Hazmat Handler w/ Program element 3001 See Gr 01.
APR 06 2005		File Reviewed DSY
04/11/05	WR	out of business status verified - 5302 submitted to update facility information report. WRW
04/18/06	WR	012 Conducted - Above site is out of business & not at associated w/ DRC Pump Systems - (Handler only)
07/18/12	SK	Routine HM insp. HM inventory reduced. Please update

LA County Fire Department
Facility Information Report

OWNER FILE INFORMATION

☐ Ownership change: _____ Effective Date ☐ Update ☐ Out of Business _____ Effective Date

Owner ID:	OW0040906
Owner Name:	JOHN HOUGHTON
Owner DBA:	DRC PUMP SYSTEMS INC
Owner Address:	47711 W 93RD ST W
	LANCASTER, CA 93536
Work/Business Phone:	661-940-8713
Billing/Mailing Address:	44434 090TH ST EAST
	LANCASTER, CA 93535
ATTN/Care of:	JOHN HOUGHTON
Ownership Type:	

[redacted]

FACILITY FILE INFORMATION

Facility ID:	FA0000611
Facility Name:	DRC PUMP SYSTEMS INC
No. of Employee:	3
Site Location:	44434 090TH ST E
	LANCASTER, CA 93535 **EPA ID**
Phone:	661-946-9444 **CERS #**
Mailing Address:	44434 N 90TH ST EAST
	LANCASTER, CA 93535
Operator/Care of:	JOHN HOUGHTON E-Mail : Not Specified
District:	N - NORTH
City Code:	CNTY UNINCORPORATED COUNTY AREA
CUPA Jurisdiction:	CO
Operating Hours:	Days: Hours: 0830-1800
SIC Code:	0000 - UNKNOWN
Business Type / Code:	
Station:	117

[redacted]

GENERAL HEALTH PROGRAM ELEMENTS

Record ID	Current Program Element	Current Status	# of Unit	Effective Date Beg.	Effective Date End	------- Changes ------- Program Element	Status
PR0018800	1001 - HW GEN, 0-5 EMPLOYEES	Inactive, non-billable			03/01/05		
PR0056469	3001 - HM HANDLER, FEE GROUP 01	Active, billable		03/18/05			
PR0062162	8040 - CALIFORNIA ELECTRONIC REPORTING SURCHARGE	Active, billable					

Add Program Element:

Program Element	Status	Effective Date	Program Element	Status	Effective Date

CA Waste Code					
RCRA Waste Code					
AMOUNT per quarter					
UNITS (PGTY) Pounds, Gallons, Tons, Yards					

CONSENT GIVEN BY: Jan Hermin INSPECTOR SIGNATUR [redacted] EMPLOYEE ID: 142

1st DATE & TIME OF INSPECTION: 07/18/12 2nd DATE & TIM

3rd DATE & TIME OF INSPECTION:

ENVIRONMENTAL CONTACT INFORMATION

** *For Haz Mat Handlers.*

Contact :Name: JOHN HOUGHTON
47711 93RD ST WEST
LANCASTER

Phone : 661-810-4069

Year: CCP 2012 Inventory 2012

Dun & Bradst.: * Please Fill-Out

EMERGENCY CONTACT INFORMATION

	PRIMARY CONTACT:	SECONDARY CONTACT:
Name :	JOHN HOUGHTON	DONALD HOUGHTON
Title :	PRESIDENT	VICE PRESIDENT
Business Phone :	661-946-9444	661-946-9444
24 - Hour Phone :	661-940-8713	661-256-7001
Pager # :	661-810-4069	661-810-7066

PREVIOUS INSPECTIONS

Activity Date	Program Element		Service	Result	Action	Activity Min	Travel Min	Inspector ID	Violation Code
11/16/1999	1001	PR0018800	001	01	00	60	0	EE0000099	0
03/18/2005	1001	PR0018800	001	06	15	30	0	EE0000031	
04/11/2005	0200	CO0007621	011	00	00	30	0	EE0000031	
05/20/2005	1001	PR0018800	001	07	00	45	30	EE0000031	
05/20/2005	3001	PR0056469	001	07	00	45	0	EE0000031	
04/18/2006	1001	PR0018800	012	07	00	30	90	EE0000031	
02/12/2009	1001	PR0018800	052	00	00	30	0	EE0000142	
02/12/2009	3001	PR0056469	052	00	00	30	0	EE0000142	
02/25/2009	1001	PR0018800	001	01	00	15	30	EE0000142	
02/25/2009	3001	PR0056469	001	01	00	45	0	EE0000142	
02/25/2009	1001	PR0018800	051	00	00	30	70	EE0000142	
02/25/2009	3001	PR0056469	051	00	00	30	0	EE0000142	

VIOLATIONS LIST

Open	Activity Date	Program Element	Viol Status	Service	Result	Action	Violation Code	Violation Degree	Description

CONSENT GIVEN BY: _____ INSPECTOR SIGNATURE: _____ EMPLOYEE ID: _____

1st DATE & TIME OF INSPECTION: _____ 2nd DATE & TIME OF INSPECTION: _____

3rd DATE & TIME OF INSPECTION:

LA County Fire Department
Facility Information Report

Field Notes

LIST ORDER OF INSPECTION AS FOLLOWS: I. OPENING CONFERENCE II. WALK THROUGH III. DOCUMENTS IV. CLOSING CONFERENCE V. VIOLATIONS

I. Opening Conf. – Jan Herrin granted consent and acknowledged owner John Houghton was on his way back to the site. Mr. Houghton did arrive during the inspection.

II. Walk Through – HM inventory has been reduced
3 x 200 ft^3 O_2 cylinders
2 x 165 ft^3 acetylene cylinders
55-gal Methanol not stored on-site.

III. Docs – inventory reviewed. Remove 55-gal Methanol
Ms. Herrin & Mr. Houghton stated the bill plus penalty had not been paid. He was concerned on the cost (penalty fee).

IV. IV. Mr. Houghton stated he was not sure if annual permit fee had been paid. 70) was checked off in case no pymt However 5302 does not show "Delinquent".

CONSENT GIVEN BY: Jan Herrin INSPECTOR SIGNATURE: [redacted] EMPLOYEE ID: 142

1st DATE & TIME OF INSPECTION: 07/18/12 2nd DATE & TIME OF INSPECTION:

3rd DATE & TIME OF INSPECTION:

Date: 08/06/2012
Run By:

Facilities Chemical Inventory Report

Current Update On: 12/04/2009
Last Update On: 03/08/2011

Report # 5304
V.091207

FA0000611
DRC PUMP SYSTEMS INC
44434 090TH ST E LANCASTER 93535

Fee Group Assignment Before Adjustment

3001	Gas in Cubic Feet:	565
3000	Liquid in Gallon :	0
3000	Solid in Pound:	0

PE: (Current) **3001** PE: (Calculated) **3001**

A: Gallon B: Cubic Feet C: Pound L: Liquid S: Solid G: Gas M: Mix P: Pure

Unit	Chemical Name	CAS #	Common Name	Max AMT	Unit of Meas	Physical State	Type	Comp CAS #	Components	% Wt
1	**FIXED CONTAINER ON SITE**									
	ACETYLENE	74-86-2	ACETYLENE	152	B	G	P			
	OXYGEN	7782-44-7	OXYGEN	413	B	G	P			
	METHANOL	67-56-1	METHANOL	55	A		P			

Please delete

COUNTY OF LOS ANGELES FIRE DEPARTMENT
HEALTH HAZARDOUS MATERIALS DIVISION

INSPECTION REPORT

CERTIFIED UNIFIED PROGRAM AGENCY • PARTICIPATING AGENCY

5825 RICKENBACKER ROAD, COMMERCE, CA 90040
PHONE: (323) 890-4107 FAX: (323) 724-5976

BUSINESS: DRC Pump Systems Inc.	OWNER: DRC Pump Systems Inc.	DATE: 07/18/12
ADDRESS: 44434 90th Street East Lancaster		FACILITY ID: FA0000611

The following requirements, if applicable, have been inspected. This document constitutes a summary of violations and notice to comply if the violation column (V) is checked. ***References:*** *Titles 19 and 22 of the California Code of Regulations (CCR); Chapters 6.5, 6.67, and 6.95 of the California Health and Safety Code (HSC); Titles 11 and 12 of the Los Angeles County Code (Co Ord); and Title 40 Code of Federal Regulations (CFR).* ***NOTE:*** *For all CFR sections refer to CCR 66262.34(d)(2) for applicability.*

INSPECTION TYPE: ☐ INITIAL ☐ RE-INSPECTION ☐ OTHER:

	V	HAZARDOUS WASTE (HW) GENERATOR	SECTION
1		HW accumulation time	CCR 66262.34(a-d)
2		Satellite accumulation	CCR 66262.34(e)
3		HW labeling	CCR 66262.34(f)
4		Hazardous materials storage and labeling	CCR 66261.2(f)
5		Containers leaking or not in good condition	CCR 66265.171 | CFR 265.171
6		Compatibility of waste with containers	CCR 66265.172 | CFR 265.172
7		HW containers closed	CCR 66265.173(a) | CFR 265.173(a)
8		Container inspection – weekly	CCR 66265.174 | CFR 265.174
9		Separation of incompatibles	CCR 66265.177 | CFR 265.177
10		Tank overflow and spill prevention	CCR 66265.194 | CFR 265.201(b)
11		Tank inspection	CCR 66265.195 | CFR 265.201(d)
12		Tank system management	CCR 66265.190-.202 | CFR 265.201
13		Empty containers	CCR 66261.7
14		Used oil management	HSC 25250.4
15		Used oil / fuel filter management	CCR 66266.130 / HSC 25250.22
16		Used battery management	CCR 66266.81
17		Contaminated textile management	HSC 25144.6
18		EPA ID number [submit DTSC form 1358]	CCR 66262.12
19		HW manifest complete	CCR 66262.23(a)
20		Manifest copies to DTSC	CCR 66262.23(a)(4)
21		Manifest copies retained for 3 years	CCR 66262.40(a)
22		Consolidated manifest requirements	HSC 25160.2
23		Manifest exception reporting	CCR 66262.42
24		HW transported with manifest	CCR 66262.20
25		HW transported by registered hauler	HSC 25163(a)
26		Land disposal restriction requirements	CCR 66268.7(a)

	V	HAZARDOUS WASTE GENERATOR	SECTION
27		HW analysis retained for 3 years	CCR 66262.40(c)
28		HW determination	CCR 66262.11
29		Proper disposal of HW	HSC 25189.5(a)
30		Reckless management of HW	HSC 25189.6
31		Quarantine order	HSC 25187.6
32		Maintain/operate to prevent release/fire	CCR 66265.31 | CFR 265.31
33		Required equipment and maintenance	CCR 66265.32-.33 | CFR 265.32-.33
34		Required aisle space	CCR 66265.35 | CFR 265.35
35		Personnel training	CCR 66265.16 | CFR 262.34(d)(5)(iii)
36		Emergency information posting [SQGs]	CFR 262.34(d)(5)(ii)
37		Contingency plan [LQGs]	CCR 66265.51
38		Source reduction requirements [LQGs]	CCR 67100.3
39		Biennial report requirements [RCRA LQGs]	CCR 66262.40-.41
40		Closure requirements [LQGs]	CCR 66265.111 / .114
41		Site assessment requirements	HSC 25187(a)(1)
42		Excluded recyclable material management	HSC 25143.2 / .9
43		Recyclable material report	HSC 25143.10
44		Universal waste management	CCR 66273.1
45		Other violation(s)	
	V	**HAZARDOUS MATERIALS HANDLER**	**SECTION**
50		HMBP established and implemented	HSC 25503.5
51		HMBP submitted; updated/accurate	HSC 25505
52		Regulated substance registration	HSC 25533(a)
	V	**ABOVEGROUND PETROLEUM STORAGE**	**SECTION**
60		SPCC plan	HSC 25270.4.5(a)
70	X	**PERMIT REQUIRED** – Submit UP Forms	Co Ord 12.50.075

☐ **NO SIGNIFICANT VIOLATIONS OBSERVED ON DATE OF INSPECTION.**
☒ **NOTICE TO COMPLY: THE VIOLATION(S) CITED MUST BE CORRECTED BY** 08/31/12.
☐ **RETURN CERTIFICATION OF COMPLIANCE FOUND ON BACK OF THIS NOTICE.**

Attention: The requirements checked are in violation. Non-compliance could result in re-inspection fees, permit revocation, and/or administrative/civil/criminal penalties. A re-inspection may occur at any time to verify compliance. Any time granted for correction of the violation(s) does not preclude any enforcement action by this Department or other agencies.

It is improper and illegal for any County officer, employee or inspector to solicit bribes, gifts or gratuities in connection with performing their official duties. Improper solicitations include requests for anything of value such as cash, discounts, free services, paid travel or entertainment, or tangible items such as food or beverages. Any attempt by a County employee to solicit bribes, gifts or gratuities for any reason should be reported immediately to either the County manager responsible for supervising the employee or the Fraud hotline at (800) 544-6861 or www.lacountyfraud.org. YOU MAY REMAIN ANONYMOUS.

70) Please pay hazardous material fees.

Inspected By: James Kellogg

Consent Given By: Jon Hamin

[redacted]

Inventory / CCP Tracking Report

Printed By : FA0000350
Printed Date : 3/8/2011

Facility : **FA0000611** **DRC PUMP SYSTEMS INC** **Phone :** 661-946-9444
44434 090TH ST E LANCASTER **93535**

Owner : OW0040906 **CareOf:** JOHN HOUGHTON **Work Phone :** 661-940-8713
JOHN HOUGHTON **DBA:** DRC PUMP SYSTEMS INC **Home Phone :** Not Specified
44434 090TH ST EAST
LANCASTER CA 93535

Cert Mail : **Dunn / Brad :**

SIC : 0000 - UNKNOWN

Program Element : 3001 HM HANDLER, FEE GROUP 01
01

Previous Record : *TBA*

District : NORTH **Station :** 117

Inventory

*** Current Status**

H

Inventory Tracking Milestones

		Date Completed
Report Year	2011	3/8/2011
Package Sent Date	11/16/2010	
Package Received Date	11/22/2010	
Correction Notice Sent Date		
Correction Received Date		
Note	JOHN HOUGHTON, PRESIDENT, 11/18/10	

To Do Next

Forward to District Office

CCP

*** Current Status**

H

CCP Tracking Milestones

Report Year	2011
Package Received Date	11/18/2009
Correction Notice Sent Date	
Correction Received Date	

Cal-ARP section -- RS : **No**

A. Package Sent B. Package Received D. Correction Notice Sent E. Correction Received
F. Identified with Chemical Change H Accepted w/o Change I. Chemical Information Updated R Undeliverble Mail

Last Touched Date : 3/8/11 By : ACARLOS

NOI

LOS ANGELES COUNTY FIRE DEPARTMENT
HEALTH HAZARDOUS MATERIALS DIVISION
5825 Rickenbacker Road, Commerce, CA 90040

BUSINESS PLAN ANNUAL RENEWAL CERTIFICATION

Hazardous Materials Inventory Statement (HMIS)

I certify that the attached HMIS reflects the handling of hazardous materials for the reporting year in accordance with the following conditions: (Please check all that apply).

- ☐ **Delete:** Write "delete" on the HMIS next to any previously disclosed hazardous materials that are no longer used.
- ☐ **Revise:** Write the correct amounts, locations, or container type on the HMIS to reflect the accuracy of any previously reported hazardous materials.
- ☐ **EPCRA Compliance:** Fill in the EPCRA field with your signature on the HMIS for any hazardous material type and quantity identified on 40 CFR Part 355, Appendix A—The List of Extremely Hazardous Substances and Their Threshold Planning Quantities.
- ☐ **Add:** Complete one **Hazardous Materials Inventory—Chemical Description Form** to add each hazardous materials that you have not previously disclosed. Submit one form per chemical.
- ☑ **No Change: Hazardous Materials Inventory Statement** (HMIS) is accurate and complete.

Consolidated Contingency Plan (CCP)

An initial submittal of the CCP is required when you start handling hazardous materials. At least once every 3 years after the initial submittal, the CCP needs to be reviewed and certified that the file with your agency is accurate and current in accordance with the following conditions:

- ☐ **If the Owner/Operator page indicates "CCP Certification required"** complete and submit a new CCP.
- ☐ **Modification:** Significant changes in facility personnel or operations required a revision of the CCP. Complete and submit changes of your CCP with this form. Indicate changes by crossing out old information, and writing in the correct information.
- ☐ **Lost:** Complete and submit any parts of your CCP that were lost or damaged.
- ☑ **No Change:** There have not been any significant changes in the facility's personnel and operations that require a revision to the current CCP.

Received
NOV 22 2010
HHMD - Data Ops

Cal-ARP Program

I reviewed the threshold quantities in Section 2770.5 of Title 19 of the California Code of Regulations and certify that any regulated substance on the attached HMIS accords with the following registration requirement:

- ☐ **Add:** Complete the **Cal-ARP Program Regulated Substance Registration** form only if the regulated substance is at or above the threshold quantity (TQ). Submit one form per chemical.
- ☑ **No Change:** The previously submitted registration for regulated substance(s) is accurate.

ANNUAL CERTIFICATION

I certify that the information submitted herein is complete and accurate. Also, no hazardous materials subject to the inventory requirements of Chapter 6.95 of the Health and Safety Code are being handled that are not listed on the most recently submitted annual inventory form.

JS Herrin	John Houghton	[redacted]
Print Name of Document Preparer	Print Name of Owner/Operator	
DRC Pump Systems Inc.	44434 90th St. East	11/18/2010
Business Name	Site Address	Date

FA0000611 117
DRC PUMP SYSTEMS INC

44434 090TH ST E

Submit this packet to the above address before January 3, 2011 to avoid a late submittal penalty of $331 or other enforcement options. Certified Mail advised. Do not submit any fees with this packet.
Obtain unified program forms from our website at http://www.fire.lacounty.gov/HealthHazMat/HHMDForms.asp or from our Data Operations Unit at (323) 890-4000.

Date run : 11/1/2010 3:02:27PM

FA0000611 0

Los Angeles County Fire Department

Owner/Operator Identification

Beginning Date: 1/1/2011 Ending Date: 12/31/2011

Report #5314

V101026

Please clearly make changes/corrections.

OWNER FILE INFORMATION

Owner ID: OW0040906

Owner Name: JOHN HOUGHTON

Owner DBA: DRC PUMP SYSTEMS INC

Owner Address: 47711 W 93RD ST W

LANCASTER, CA 93536

Work/Business Phone: 661-940-8713

Billing/Mailing Address: 44434 090TH ST EAST

LANCASTER, CA 93535

ATTN/Care of: JOHN HOUGHTON

[redacted]

FACILITY FILE INFORMATION

On Site Regulated Substances : Yes ___ No ✓

Facility ID: FA0000611

Facility Name: DRC PUMP SYSTEMS INC

Site Location: 44434 090TH ST E

LANCASTER, CA 93535

Phone: 661-946-9444

Mailing Address: 44434 N 90TH ST EAST

LANCASTER, CA 93535

Operator/Care of: JOHN HOUGHTON **E-Mail Address:**

SIC Code: 0000

Operating Hours: Days: Hours: 0830-1800

Station: 117

Date First Became Operational:

ENVIRONMENTAL CONTACT INFORMATION

Contact Name: JOHN HOUGHTON Phone : 661-810-4069

47711 93RD ST WEST

LANCASTER CA 93536

Dun & Bradst.: * Please Fill-Out

EMERGENCY CONTACT INFORMATION

	PRIMARY CONTACT:	SECONDARY CONTACT:
Name :	JOHN HOUGHTON	DONALD HOUGHTON
Title :	PRESIDENT	VICE PRESIDENT
Business Phone :	661-946-9444	661-946-9444
24 - Hour Phone :	661-940-8713	661-256-7001
Pager # :	661-810-4069	661-810-7066

H 4-Dec-09

ADDITIONAL INFORMATION

ASSESSORS PARCEL NUMBER: 3376-011-035

Certification: I certify under penalty of law that I have personally examined and am familiar with the information submitted in this inventory and believe the information is true, accurate and complete.

Print Name of Document Preparer : J Sterrin

Signature of Owner/Operator : [redacted]

Date: 11/18/2010

CCP Status: 2009 11/18/2009 Received

Date: 11/2/2010

Hazardous Materials Inventory Statement

Report #5316
Run By : RMARTINEZ

Business Name: DRC PUMP SYSTEMS INC
(Same as Facility Name or DBA) 44434 090TH ST E LANCASTER

Chemical Location: Unit # 1
(Building/Storage Area) FIXED CONTAINER ON SITE

Facility ID # : FA0000611

1. Haz. Class / Record ID	2. Grid Coordinate	3. Common Name	Trade Secret	4. Hazardous Components (For mixture only) Chemical Name	% Weight	EHS	CAS #	5. Type and Physical State	6. Quantities Max. Daily	Average Daily	Largest Cont.	7. Units	8. Storage Codes Storage Pressure	Storage Temp.	9. Hazard Categories
		ACETYLENE		Components Not Necessary for Pure Chemical				P M: Mix P: Pure W: Waste G L: Liquid S: Solid G: Gas	152 Curies: (If radioactive)	0 Days On Site: 365	Storage Container:* L	B A: Gallons B: Cu Feet C: Pounds D: Tons Waste Code: Amt:	B A: Ambient B: > Ambient C: < Ambient D: Cryrogenic	A	Y fire reactive presure rels. Y acute health chronic heal. radioactive
		OXYGEN		Components Not Necessary for Pure Chemical				P M: Mix P: Pure W: Waste G L: Liquid S: Solid G: Gas	413 Curies: (If radioactive)	0 Days On Site: 365	Storage Container:* L	B A: Gallons B: Cu Feet C: Pounds D: Tons Waste Code: Amt:	B A: Ambient B: > Ambient C: < Ambient D: Cryrogenic	A	fire reactive Y presure rels. Y acute health chronic heal. radioactive
		METHANOL		Components Not Necessary for Pure Chemical				P M: Mix P: Pure W: Waste G L: Liquid S: Solid G: Gas	55 Curies: (If radioactive)	55 Days On Site: 365	55.00 Storage Container:* D	A A: Gallons B: Cu Feet C: Pounds D: Tons Waste Code: Amt:	A A: Ambient B: > Ambient C: < Ambient D: Cryrogenic	A	Y fire reactive presure rels. acute health chronic heal. radioactive

* Storage Codes

Code	Storage Type	Code	Storage Type	Code	Storage Type	Code	Storage Type	Code	Storage Type	Code	Storage Type
A	Aboveground Tank	D	Steel Drum	G	Carboy	J	Bag	M	Glass Bottle or Jug	P	Tank Wagon
B	Belowground Tank	E	Plastic/Non-metallic Drum	H	Silo	K	Box	N	Plastic Bottle or Jug	Q	Rail Car
C	Tank Inside Building	F	Can	I	Fiber Drum	L	Cylinder	O	Tote Bin	R	Other

Inventory / CCP Tracking Report

Printed By : BEVIE
Printed Date : 3/5/2010

Facility : FA0000611 **DRC PUMP SYSTEMS INC** **Phone :** 661-946-9444
44434 090TH ST E LANCASTER **93535**
City Code: **CNTY**

Owner : OW0040906 **CareOf:** JOHN HOUGHTON **Work Phone :** 661-940-8713
JOHN HOUGHTON **DBA:** DRC PUMP SYSTEMS INC **Home Phone :** Not Specified
44434 090TH ST EAST
LANCASTER CA 93535

Cert Mail : **Dunn / Brad :**

SIC : 0000 0000 - UNKNOWN

Program Element : 3001 HM HANDLER, FEE GROUP 01
01

District : NORTH **Station :** 117

Inventory

*** Current Status**

H

Inventory Tracking Milestones

		Date Completed
Report Year	2010	12/4/2009
Package Sent Date	11/16/2009	
Package Received Date	11/18/2009	
Correction Notice Sent Date		
Correction Received Date		
Completed Date	12/04/2009	
Note	JOHN HOUGHTON, PRESIDENT, 11/17/09	

To Do Next

Forward to District Office

CCP

*** Current Status**

H

CCP Tracking Milestones

Report Year	2009
Package Received Date	11/18/2009
Correction Notice Sent Date	
Correction Received Date	
Site Map Filing Date	09/15/2008
Completed Date	12/04/2009

Cal-ARP section -- RS : **No**

A. Package Sent B. Package Received D. Correction Notice Sent E. Correction Received
F. Identified with Chemical Change H Accepted w/o Change I. Chemical Information Updated R Undeliverble Mail

Last Touched Date : 3/4/2010 By BCO
Report #5307_IN V091230

LOS ANGELES COUNTY FIRE DEPARTMENT
HEALTH HAZARDOUS MATERIALS DIVISION
5825 Rickenbacker Road, Commerce, CA 90040

BUSINESS PLAN ANNUAL RENEWAL CERTIFICATION

Hazardous Materials Inventory Statement (HMIS)

I certify that the attached HMIS reflects the handling of hazardous materials for the reporting year in accordance with the following conditions: (Please check all that apply).

- ☐ **Delete:** Write "delete" on the HMIS next to any previously disclosed hazardous materials that are no longer used.
- ☐ **Revise:** Write the correct amounts, locations, or container type on the HMIS to reflect the accuracy of any previously reported hazardous materials.
- ☐ **EPCRA Compliance:** Fill in the EPCRA field with your signature on the HMIS for any hazardous material type and quantity identified on 40 CFR Part 355, Appendix A—The List of Extremely Hazardous Substances and Their Threshold Planning Quantities.
- ☐ **Add:** Complete one **Hazardous Materials Inventory—Chemical Description Form** to add each hazardous materials that you have not previously disclosed. Submit one form per chemical.
- ☑ **No Change: Hazardous Materials Inventory Statement** (HMIS) is accurate and complete.

Consolidated Contingency Plan (CCP)

An initial submittal of the CCP is required when you start handling hazardous materials. At least once every 3 years after the initial submittal, the CCP needs to be reviewed and certified that the file with your agency is accurate and current in accordance with the following conditions:

- ☐ **If the Owner/Operator page indicates "CCP Certification required"** complete and submit a new CCP.
- ☐ **Modification:** Significant changes in facility personnel or operations required a revision of the CCP. Complete and submit changes of your CCP with this form. Indicate changes by crossing out old information, and writing in the correct information.
- ☐ **Lost:** Complete and submit any parts of your CCP that were lost or damaged.
- ☑ **No Change:** There have not been any significant changes in the facility's personnel and operations that require a revision to the current CCP.

Received
NOV 18 2009
HHMD - Data Ops

Cal-ARP Program

I reviewed the threshold quantities in Section 2770.5 of Title 19 of the California Code of Regulations and certify that any regulated substance on the attached HMIS accords with the following registration requirement:

- ☐ **Add:** Complete the **Cal-ARP Program Regulated Substance Registration** form only if the regulated substance is at or above the threshold quantity (TQ). Submit one form per chemical.
- ☑ **No Change:** The previously submitted registration for regulated substance(s) is accurate.

ANNUAL CERTIFICATION

I certify that the information submitted herein is complete and accurate. Also, no hazardous materials subject to the inventory requirements of Chapter 6.95 of the Health and Safety Code are being handled that are not listed on the most recently submitted annual inventory form.

Print Name of Document Preparer	Print Name of Owner/Operator	Signature of Owner/Operator
JS Herrin	John Houghton	[redacted]
Business Name	**Site Address**	**Date**
DRC Pump Systems, Inc.	44434 90th St. E. 93535	11/17/09

FA0000611 117
DRC PUMP SYSTEMS INC
44434 090TH ST E

Submit this packet to the above address before January 4, 2010 to avoid a late submittal penalty of $285 or other enforcement options. Certified Mail advised. Do not submit any fees with this packet.
Obtain unified program forms from our website at http://www.fire.lacounty.gov/HealthHazMat/HHMDForms.asp or from our Data Operations Unit at (323) 890-4000.

Date run : 11/6/2009 8:19:24AM
Run by :
FA0000611

Los Angeles County Fire Department

Owner/Operator Identification

Beginning Date: 1/1/2010 Ending Date: 12/31/2010

Report #5314
V090617

OWNER FILE INFORMATION

Please clearly make changes/corrections.

Owner ID: OW0040906
Owner Name: JOHN HOUGHTON
Owner DBA: DRC PUMP SYSTEMS INC
Owner Address: 47711 W 93RD ST W
LANCASTER, CA 93536
Work/Business Phone: 661-940-8713
Billing/Mailing Address: 44434 090TH ST EAST
LANCASTER, CA 93535
ATTN/Care of: JOHN HOUGHTON

[redacted]

FACILITY FILE INFORMATION

On Site Regulated Substances : Yes ___ No ___

Facility ID: FA0000611
Facility Name: DRC PUMP SYSTEMS INC

Site Location: 44434 090TH ST E
LANCASTER, CA 93535
Phone: 661-946-9444
Mailing Address: 44434 N 90TH ST EAST
LANCASTER, CA 93535
Operator/Care of: JOHN HOUGHTON **E-Mail Address:**
SIC Code: 0000
Operating Hours: Days: Hours: 0830-1800
Station: 117

Date First Became Operational:

ENVIRONMENTAL CONTACT INFORMATION

Contact Name: JOHN HOUGHTON Phone : 661-810-4069
47711 93RD ST WEST
LANCASTER CA 93536

Dun & Bradst.: * Please Fill-Out

EMERGENCY CONTACT INFORMATION

	PRIMARY CONTACT:	SECONDARY CONTACT:
Name :	JOHN HOUGHTON	DONALD HOUGHTON
Title :	PRESIDENT	VICE PRESIDENT
Business Phone :	661-946-9444	661-946-9444
24 - Hour Phone :	661-940-8713	661-256-7001
Pager # :	661-810-4069	661-810-7066

ADDITIONAL INFORMATION

H 7-May-09

ASSESSORS PARCEL NUMBER: 3376-011-035

Certification: I certify under penalty of law that I have personally examined and am familiar with the information submitted in this inventory and believe the information is true, accurate and complete.

Print Name of Document Preparer : JSterrin

Signature of Owner/Operator [redacted]

Date: 11/7/09

CCP Status: 2009 1/6/2009 Received

Date: 11/9/2009

Hazardous Materials Inventory Statement

Report #5316
Run By : Melissa Lamt

Business Name: DRC PUMP SYSTEMS INC
(Same as Facility Name or DBA) 44434 090TH ST E LANCASTER

Chemical Location: Unit # 1
(Building/Storage Area) **FIXED CONTAINER ON SITE**

Facility ID # : FA0000611

1. Haz. Class / Record ID	2. Grid Coordinate	3. Common Name	4. Hazardous Components (For mixture only) Trade Secret	Chemical Name	% Weight	EHS	CAS #	5. Type and Physical State	6. Quantities Max. Daily	Average Daily	Largest Cont.	7. Units	8. Storage Codes Storage Pressure	Storage Temp.	9. Hazard Categories
[redacted]		ACETYLENE		Components Not Necessary for Pure Chemical				P (M: Mix P: Pure W: Waste) G (L: Liquid S: Solid G: Gas)	152	0		B (A: Gallons B: Cu Feet C: Pounds D: Tons)	B (A: Ambient B: > Ambient C: < Ambient D: Cryrogenic)	A	Y fire; reactive; presure rels.; Y acute health; chronic heal.; radioactive
									Curies: (If radioactive)	Days On Site: 365	Storage Container:* L	Waste Code:	Amt:		
[redacted]		OXYGEN		Components Not Necessary for Pure Chemical				P (M: Mix P: Pure W: Waste) G (L: Liquid S: Solid G: Gas)	413	0		B (A: Gallons B: Cu Feet C: Pounds D: Tons)	B (A: Ambient B: > Ambient C: < Ambient D: Cryrogenic)	A	fire; reactive; Y presure rels.; Y acute health; chronic heal.; radioactive
									Curies: (If radioactive)	Days On Site: 365	Storage Container:* L	Waste Code:	Amt:		
[redacted]		METHANOL		Components Not Necessary for Pure Chemical				P (M: Mix P: Pure W: Waste) G (L: Liquid S: Solid G: Gas)	55	55	55.00	A (A: Gallons B: Cu Feet C: Pounds D: Tons)	A (A: Ambient B: > Ambient C: < Ambient D: Cryrogenic)	A	Y fire; reactive; presure rels.; acute health; chronic heal.; radioactive
									Curies: (If radioactive)	Days On Site: 365	Storage Container:* D	Waste Code:	Amt:		

* Storage Container Codes

Code	Storage Type	Code	Storage Type	Code	Storage Type	Code	Storage Type	Code	Storage Type	Code	Storage Type
A	Aboveground Tank	D	Steel Drum	G	Carboy	J	Bag	M	Glass Bottle or Jug	P	Tank Wagon
B	Belowground Tank	E	Plastic/Non-metallic Drum	H	Silo	K	Box	N	Plastic Bottle or Jug	Q	Rail Car
C	Tank Inside Building	F	Can	I	Fiber Drum	L	Cylinder	O	Tote Bin	R	Other

Unified Program (UP) Form
CONSOLIDATED CONTINGENCY PLAN

COVER PAGE

FACILITY IDENTIFICATION		
BUSINESS NAME 3: DRC Pump Systems, Inc		FACILITY ID # 1: FA 0009148
SITE ADDRESS 103: 44434 90th St. East	CITY 104: Lancaster	ZIP CODE 105: 93535

The Consolidated Contingency Plan provides businesses a format to comply with the emergency planning requirements of the following three written hazardous materials emergency response plans required in California:

- Hazardous Materials Business Plan (HSC Chapter 6.95 Section 25504 (b) and 19 CCR Sections 2729-2732),
- Hazardous Waste Generator Contingency Plan (22 CCR Section 66264.52), and,
- Underground Storage Tank Emergency Response Plan and Monitoring Program (23 CCR Sections 2632 and 2641). These forms are not included in this packet.

This format is designed to reduce duplication in the preparation and use of emergency response plans at the same facility, and to improve the coordination between facility response personnel and local, state and federal emergency responders during an emergency. Use the chart below to determine which sections of the Consolidated Contingency Plan need to be completed for your facility. If you are unsure as to which programs your facility is subject to, refer to the Business Activities Page.

PROGRAMS	SECTION(S) TO BE COMPLETED
Hazardous Materials Business Plan (HMBP)	Cover Page, Section I, and Site Map(s)
Hazardous Waste Generator (HWG)	Cover Page, Section I, and Site Map(s)
Underground Storage Tank (UST)	Cover Page, Sections I and II, and Site Map(s)
HMBP, HWG, UST	Cover Page, Sections I and II, and Site Map(s)

A copy of the plan shall be submitted to your local CUPA and at least one copy of the plan shall be maintained at the facility for use in the event of an emergency and for inspection by the local agency. Describe below where a copy of your Contingency Plan, including the hazardous material inventories and Site Map(s), is located at your business:

In file drawer below copy machine

PLAN CERTIFICATION

I certify under penalty of law that I have personally examined and I am familiar with the information provided by this plan and to the best of my knowledge the information is accurate, complete, and true.

Printed Name of Owner/ Operator	Title of Owner/Operator
John Houghton	President
[redacted]	Date 12/9/04

We appreciate the effort of local businesses in completing these plans and will assist in every possible way. If you have any questions, please contact your local CUPA or PA.

OFFICIAL USE ONLY		DATE RECEIVED		REVIEWED BY		
DIV	BN	STA	OTHER	DISTRICT	CUPA	PA

Unified Program (UP) Form
CONSOLIDATED CONTINGENCY PLAN
SECTION I: BUSINESS PLAN AND CONTINGENCY PLAN

I. FACILITY IDENTIFICATION

BUSINESS NAME 3		FACILITY ID # 1
DRC Pump Systems, Inc		FA0004198
SITE ADDRESS 103	CITY 104	ZIP CODE 105
44434 90th St. East	Lancaster	93535

II. EMERGENCY CONTACTS

PRIMARY		SECONDARY	
NAME 123	John Houghton	NAME 128	Donald Houghton
TITLE 124	President	TITLE 129	Vice President
BUSINESS PHONE 125	661-946-9444	BUSINESS PHONE 130	661-946-9444
24-HOUR PHONE 126	661-940-8713	24-HOUR PHONE 131	661-256-7001
PAGER # 127	661-810-4069	PAGER # 132	661-810-7066

III. EMERGENCY RESPONSE PLANS AND PROCEDURES

A. Notifications

Your business is required by State Law to provide an immediate verbal report of any release or threatened release of a hazardous material to local fire emergency response personnel, this Unified Program Agency (CUPA or PA), and the Office of Emergency Services. If you have a release or threatened release of hazardous materials, immediately call:

FIRE/PARAMEDICS/POLICE/SHERIFF
PHONE: 911

AFTER the local emergency response personnel are notified, you shall then notify this Unified Program Agency and the Office of Emergency Services.

Local Unified Program Agency: (323) 890-4317
State Office of Emergency Service: (800) 852-7550 or (916) 262-1621
National Response Center: (800) 424-8802

Information to be provided during Notification:

- Your Name and the Telephone Number from where you are calling.
- Exact address of the release or threatened release.
- Date, time, cause, and type of incident (e.g. fire, air release, spill etc.)
- Material and quantity of the release, to the extent known.
- Current condition of the facility.
- Extent of injuries, if any.
- Possible hazards to public health and/ or the environment outside of the facility.

B. Emergency Medical Facility

List the local emergency medical facility that will be used by your business in the event of an accident or injury caused by a release or threatened release of hazardous material.

HOSPITAL/CLINIC:	PHONE NO:
A.V. Hospital	661-726 6180
ADDRESS: 1600 W. Ave J	
CITY: Lancaster	ZIP CODE: 93536

OFFICIAL USE ONLY	DATE RECEIVED	REVIEWED BY				
DIV	BN	STA	OTHER	DISTRICT	CUPA	PA

Unified Program (UP) Form
CONSOLIDATED CONTINGENCY PLAN

SECTION I: BUSINESS PLAN AND CONTINGENCY PLAN

G. Emergency Procedures

Briefly describe your business standard operating procedures in the event of a release or threatened release of hazardous materials: 911 then contact owner

1. **PREVENTION** (prevent the hazard) – Describe the kinds of hazards associated with the hazardous materials present at your facility. What actions would your business take to prevent these hazards from occurring? You may include a discussion of safety and storage procedures.

all acetylen bottles + oxygen bottles are on + attatched to holders

2. **MITIGATION** (reduce the hazard) – Describe what is done to lessen the harm or the damage to person(s), property, or the environment, and prevent what has occurred from getting worse or spreading. What is your immediate response to a leak, spill, fire, explosion, or airborne release at your business?

Fire extinguishers in required areas
If emergency, call 911 - then owner

3. **ABATEMENT** (remove the hazard) – Describe what you would do to stop and remove the hazard. How do you handle the complete process of stopping a release, cleaning up, and disposing of released materials at your facility?

Legally dispose of containers, contaminated ground, tested + cleaned certified to no longer be contaminated

Hazardous Materials Inventory Statement

Date: 9/30/04

Run By : jc_3002

Business Name: DRC PUMP SYSTEMS INC
(Same as Facility Name or DBA) 3604 E AVENUE I LANCASTER 10/23/03

Chemical Location: Unit # 2
(Building/Storage Area) FIXED CONTAINERS AT SITE

Facility ID # : FA0004148

1. Haz. Class	2. Grid Coordinate	3. Common Name	4. Hazardous Components (For mixture only) Trade Secret	Chemical Name	% Weight	EHS	CAS #	5. Type and Physical State	6. Quantities Max. Daily	Average Daily	Largest Cont.	7. Units	8. Storage Codes Storage Pressure	Storage Temp.	9. Hazard Categories
		ACETYLENE [redacted]						P M: Mix P: Pure W: Waste G L: Liquid S: Solid G: Gas	152 Curies: (If radioactive)	0 Days On Site: 365	Storage Container:* L	B A: Gallons B: Cu. Feet C: Pounds D: Tons Waste Code:	B A: Ambient B: Ambient C: Ambient D: Cryogenic Amt:	A	Y fire reactive presure rels. Y acute health chronic heal. radioactive
		OXYGEN [redacted]						P M: Mix P: Pure W: Waste G L: Liquid S: Solid G: Gas	413 Curies: (If radioactive)	0 Days On Site: 365	Storage Container:* L	B A: Gallons B: Cu. Feet C: Pounds D: Tons Waste Code:	B A: Ambient B: Ambient C: Ambient D: Cryogenic Amt:	A	fire reactive Y presure rels. Y acute health chronic heal. radioactive
		PROPANE [redacted]						P M: Mix P: Pure W: Waste L L: Liquid S: Solid G: Gas	800 Curies: (If radioactive)	0 Days On Site: 365	Storage Container:* L	A A: Gallons B: Cu. Feet C: Pounds D: Tons Waste Code:	B A: Ambient B: Ambient C: Ambient D: Cryogenic Amt:	A	Y fire reactive presure rels. Y acute health chronic heal. radioactive

* Code / Storage Type

Code	Storage Type	Code	Storage Type	Code	Storage Type	Code	Storage Type	Code	Storage Type	Code	Storage Type
A	Aboveground Tank	D	Steel Drum	G	Carboy	J	Bag	M	Glass Bottle or Jug	P	Tank Wagon
B	Belowground Tank	E	Plastic/Non-metallic Drum	H	Silo	K	Box	N	Plastic Bottle or Jug	Q	Rail Car
C	Tank Inside Building	F	Can	I	Fiber Drum	L	Cylinder	O	Tote Bin	R	Other

County of Los Angeles • Fire Department
Health Hazardous Materials Division

INSPECTION SUMMARY REPORT

PAGE 1 OF

Business Name: Dale's Auto Clinic		Phone: 661 946-1981	Facility ID #: 066010
Site Address: 44434 N 90TH ST EAST			Industry Type: Auto Shop
City: Lancaster	CA	Zip Code: 93535	Operating hrs: 8-5
			EPA #:
Mailing Address:		Business owner: Dale Housing	Sic Code: 7538 / No of Empl.: 1
City: SAME	State:	Zip Code:	Map Page: / Grid:
Insp Dist:	Insp Unit:	Div:	BN: / Sta:

FEE GROUP

- ☐ Disclosure/RS ____
- ☐ CalARP ____
- ☐ UST ____
- ☐ AST/SPCC
- ☐Y ☐N
- ☒ HazWaste Generator 099
- ☐ Large Quantity Generator
- ☐ Tiered Permit ____

TREATMENT TIERS

- A. ___ PBR, FHHW, HHHW
- B. ___ CA
- C. ___ CEL
- D. ___ CE-CL
- E. ___ CESW
- F. ___ CESQT
- ____ Total Units

OTHER

- ☐ Financial Assurance
- ☐ Phase I
- ☐ Offsite HazWaste Consolidation
- ☐ Recycling Notification
- ☐ Pollution Prevention Report

CLASS OF VIOLATIONS

	I	II	Minor
HW			
TP			
HM			

CA Waste Code	221					
RCRA Waste Code						
AMT (PGTY) Pounds, Gallons Yds, Tons: per	676					

Referrals ☐ AQMD ☐ B & S ☐ FIRE ☐ IW ☐ OSHA ☐ DTSC ☐ RWQCB ☐ ____

Visit Date	Start Time	Insp Type	Pro Elem	Time Invested	Action Code	Special Circumstances
11/16/99	13:45	C	HW	1:00	OK	
/ /	:			:		
/ /	:			:		
/ /	:			:		
/ /	:			:		

Total Time: 1:00

INSPECTION TYPE: 004: Complaint 001: Inspection 009: Joint Inspection 010: Joint with Agency 011: Multimedia 002: Revisit 012: Permit 023: Sampling 560: Closure
PROGRAM ELEMENT: HM HW TP AST UST RS
ACTION CODES: A: Abate AO: Adm Order CR: Criminal Referral H: Hearing N: NOV O: No viol T: Time ext X: Other Z: non-gen

Insp No: 099	Si [redacted]	Date: 11/16/99
Consent given by: Dale Housan	Title: Owner	Date: 11/16/99

County of Los Angeles • Fire Department
Health Hazardous Materials Division

INSPECTION REPORT

DATE: 11/16/99

PAGE 2 OF ~

DBA: Oates Auto Clinic	Facility ID #: 66016

LIST ORDER OF INSPECTION AS FOLLOWS: I. OPENING CONFERENCE II. WALK THROUGH III. DOCUMENTS IV. CLOSING CONFERENCE V. VIOLATIONS

WASTE OIL - 150 gl / DBT NO LOGS PROVIDED LOGS/
9/99 MOTOR OIL 750 gl / 98353/60
Aug 98 MOTOR OIL 200 gl /

WASTE COOLANT - NONE ON SITE / REUSE IN VEHICLES

WASTE SOLVENT - N/A TANK ONSITE IS EMPTY
/ DARKROOM - 10 gl / → MINERAL SPIRITS - LAST SERVICED APPROX 2 YEARS AGO
~~AUG 1998~~ AHWR + COOLED BY SAFETY KLEEN

BATTERIES - AUTO PARTS STORE

WASTE OIL FILTERS - 6 DRUMS ONSITE / NONE NOT BEEN DISPOSED OF CRUSHED

ADVISED REGARDING → STORAGE OF OIL FILTERS

PHL# 066010 **INDUSTRY SURVEY** Los Angeles County Fire Department • Prevention Bureau — Health Hazardous Materials Division — LACoFD HHMD • IS1 v3.2 • 4/93

Code 100 | SIC# 7538 | EPA# | ☐Pending ☐NA

DBA DALE'S AUTO CLINIC	Phone 805-946-1986
Owner DALE HOWARD	Interviewed DALE HOWARD
Partner	Title OWNER
Address number 44434 dir N. street name 70th type ST East	Product/Service AUTO REPAIR
unit #	City CAN Zip 93535
Mailing SAA	Start Date 1960 / # of employees 1
	# of shifts 1 / Operating hours 9-5

Viol Rank	CA Waste Code	1 221	2	3	4
☐HWUT	Amt (PGT) Pounds, Gallons, Tons; per quarter	50 g			
☐HRF	Mtl/Qty				

Referrals ☐AQMD ☐B&S ☐Fire ☐IW ☐OSHA ☐SDHS ☐_____

Viol 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 99

Visit Date	Start Time	Insp	Action	Time Invested	Special Circumstances
06/26/95	11:30	107	I,O	1:-	
/ /	:			:	
/ /	:			:	
/	:			:	

Signature [redacted]

Action codes: A [illegible] V O-no viol P-PHL Inv R-Revisit S-Samples T-Time ext X-other Z-non-gen

Auto Repair

Ast ⟶ 300 gal waste oil ⟶ Butler Oil

Coolant ⟶ Bottles 80% recycled

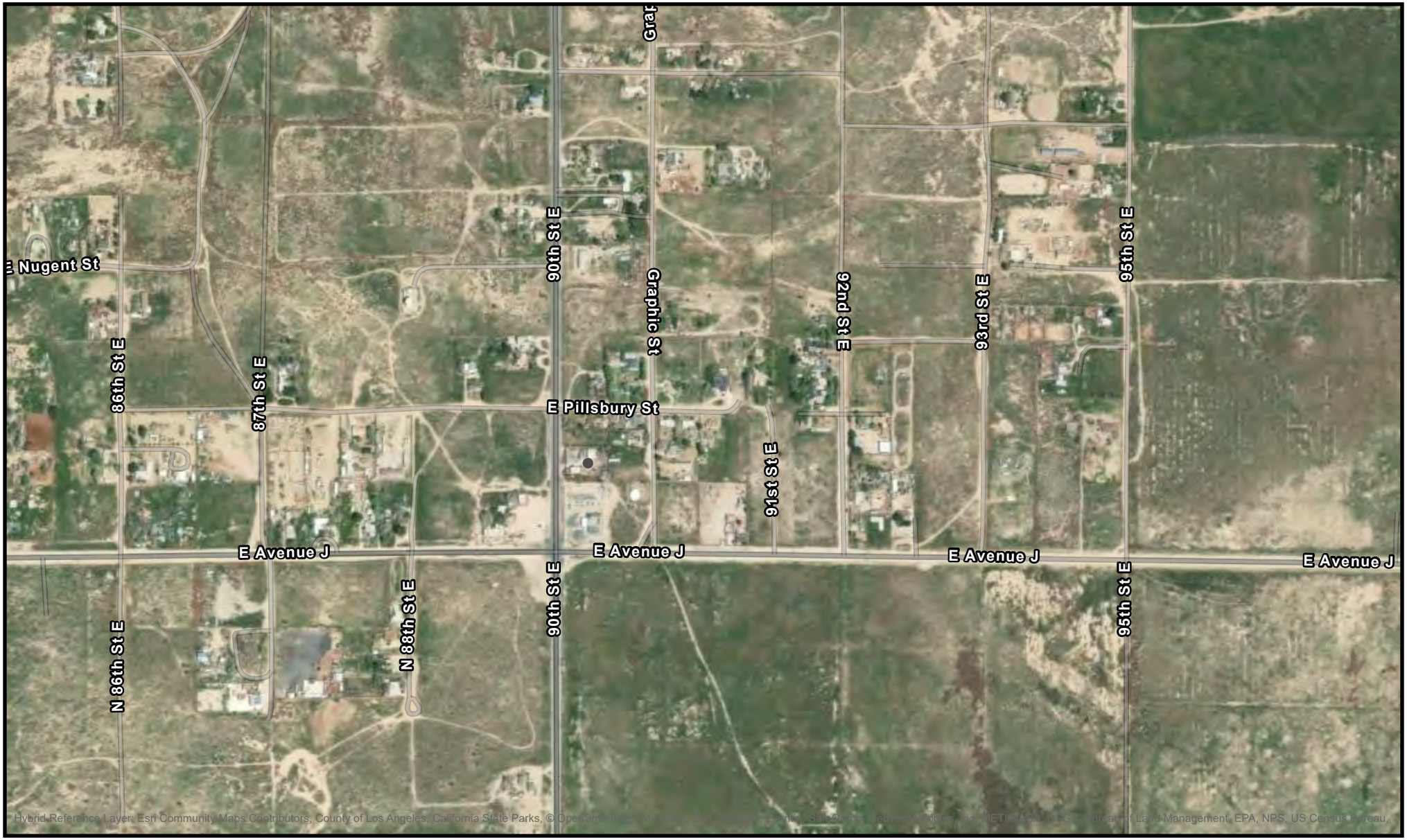
2008 10/18/94 Manifest # 9 287 350

(2) 55 gal mixed oil & water being removed this week.

WASTE RAGS ⟶ Mission Linen

Batteries ⟶ High dessert Electric

No Solvent tank since 1993



0 0.2 0.4 mi

0 0.25 0.5 km

Powered by WellSTAR

7/13/2025

Geologic Energy Management Division
715 P Street, MS 1803
Sacramento, CA 95814
Phone: (916) 445-9686
Email: calgem_webmaster@conservation.ca.gov
www.conservation.ca.gov/calgem

California Natural Resources Agency
Department of Conservation

Well Status & Type

Active	Oil & Gas	Observation
Idle	Gas	Multi-purpose
New	Dry Hole	Water Source
Plugged	Injection	Unknown
Canceled	Cyclic Steam	Core Hole
Unknown	Gas Storage	

Appendix D

Environmental Lien and AUL Search Report

Lancaster Properties
44434 90TH ST E
Lancaster, CA 93535

Inquiry Number: 8020014.8S
June 18, 2025

EDR Environmental Lien and AUL Search 1980

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Environmental Lien and AUL Search 1980

The EDR Environmental Lien and AUL Search 1980 report provides results from a search of available land title records for environmental cleanup liens and other activity and use limitations (AULs), such as engineering controls and institutional controls.

A network of professional, trained researchers, following established procedures, uses client supplied address and/or parcel information to:

- search for parcel number and/or legal description
- search for ownership information filed between 1980 and the most current publicly available date
- research official land title documents recorded at jurisdictional agencies such as recorders' offices, registries of deeds, county clerks' offices, etc.
- search for publicly available environmental encumbering instrument(s) filed between 1980 and present
- provide a copy of any environmental encumbrance(s)
- provide a copy of the current deed when available

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

Property Archives, LLC researched and compiled the land title information contained in this EDR Environmental Lien and AUL Search 1980 report on behalf of EDR.

Property Archives

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EDR Environmental Lien and AUL Search 1980

TARGET PROPERTY INFORMATION

ADDRESS

Lancaster Properties
44434 90TH ST E
Lancaster, CA, 93535

PROPERTY DESCRIPTION

Parcel ID: **3376006012**

Current Owner: MAKS Properties

Legal Description: S 267.032 FT OF N 400.548 FT MEASURED AT R/A TO N LINE OF E 1/2 OF SE 1/4 OF SE 1/4 OF SE 1/4 EX OF ST OF SEC 18 T 7N R 10W

Parcel ID: **3376011035**

Current Owner: Toni Roma Investments, LLC

Legal Description: R S 66-1 FOR DESC SEE ASSESSOR'S MAPS POR OF LOT 2

FINDINGS SUMMARY

The following is a summary of information contained in the report. Additional details may be found in the Findings Detail section.

Parcel: **3376006012**

Environmental Lien: Found ☐ Not Found ☒

Other Activity and Use Limitations (AULs): Found ☐ Not Found ☒

HISTORICAL CHAIN of TITLE FROM 1980			
RECORDED	**INSTRUMENT**	**GRANTEE**	**GRANTOR**
June 13, 2012	2012-880921	MAKS Properties	Ossama Elassaad
December 28, 2005	2005-3199338	Ossama Elassaad	Nour Enterprises, Inc.
July 17, 2003	2003-2044011	Nour Enterprises, Inc.	M. E. Development, Inc.
December 31, 2002	2002-3230002	M. E. Development, Inc.	Amira H. Elassaad
October 15, 2001	2001-1957836	Amira H. Elassaad	Los Angeles County Treasurer and Tax Collector
May 25, 1993	1993-990582	Sen Van Ly	Xe Van Ly
March 23, 1988	1988-393402	Xe Van Ly	Principal Land Investments
March 23, 1988	1988-392882	Principal Land Investments	A.L. Arnold, Gerald L. Cobb

EDR Environmental Lien and AUL Search 1980

Parcel: **3376011035**

Environmental Lien: Found ☐ Not Found ☒

Other Activity and Use Limitations (AULs): Found ☐ Not Found ☒

HISTORICAL CHAIN of TITLE FROM 1980			
RECORDED	**INSTRUMENT**	**GRANTEE**	**GRANTOR**
December 27, 2021	2021-1909493	Toni Roma Investments, LLC	Garik Tony Aroutiounian and Roma Kalantaryan
February 09, 2021	2021-224892	Garik Tony Aroutiounian and Roma Kalantaryan	John E. Houghton and Jacqueline D. Houghton
August 05, 2004	2004-2014000	John E. Houghton and Jacqueline D. Houghton	Dale E. Howard and Bonnie J. Howard, as Trustees of the Dale E. Howard and Bonnie J. Howard Family Trust
March 16, 1983	1983-294542	Dale E. Howard and Bonnie J. Howard	Dale E. Howard and Bonnie J. Howard
February 09, 1982	1982-148966	Dale E. Howard and Bonnie J. Howard	Dale E. Howard and Bonnie J. Howard and Emmett M. Howard

RESEARCH SOURCE(S)

The following research sources were reviewed from January 01, 1980, to June 10, 2025. Based on available information evaluated by the title search professional, the jurisdiction does not require a search of judicial records to identify environmental liens.

Source 1: Los Angeles County Assessor
Los Angeles County, CA

Source 2: Los Angeles County Clerk-Recorder
Los Angeles County, CA

Source 3: California Department of Toxic Substances Control

FINDINGS DETAIL

Parcel: **3376006012**

ENVIRONMENTAL LIEN

Environmental Lien: Found ☐ Not Found ☒

OTHER ACTIVITY AND USE LIMITATIONS (AULs)

Other AULs: Found ☐ Not Found ☒

EDR Environmental Lien and AUL Search 1980

MISCELLANEOUS DOCUMENTS

None

Parcel: **3376011035**

ENVIRONMENTAL LIEN

Environmental Lien: Found ☐ Not Found ☒

OTHER ACTIVITY AND USE LIMITATIONS (AULs)

Other AULs: Found ☐ Not Found ☒

MISCELLANEOUS DOCUMENTS

None

HISTORICAL CHAIN OF TITLE FROM 1980

Parcel ID: 3376006012

DEED TYPE:	Grant Deed
GRANTEE:	MAKS Properties
GRANTOR:	Ossama Elassaad
DATE EXECUTED:	May 04, 2012
DATE RECORDED:	June 13, 2012
INSTRUMENT#:	2012-880921

DEED TYPE:	Deed
GRANTEE:	Ossama Elassaad
GRANTOR:	Nour Enterprises, Inc.
DATE EXECUTED:	December 28, 2005
DATE RECORDED:	December 28, 2005
INSTRUMENT#:	2005-3199338

EDR Environmental Lien and AUL Search 1980

DEED TYPE:	Deed
GRANTEE:	Nour Enterprises, Inc.
GRANTOR:	M. E. Development, Inc.
DATE EXECUTED:	July 17, 2003
DATE RECORDED:	July 17, 2003
INSTRUMENT#:	2003-2044011

DEED TYPE:	Deed
GRANTEE:	M. E. Development, Inc.
GRANTOR:	Amira H. Elassaad
DATE EXECUTED:	December 31, 2002
DATE RECORDED:	December 31, 2002
INSTRUMENT#:	2002-3230002

DEED TYPE:	Deed
GRANTEE:	Amira H. Elassaad
GRANTOR:	Los Angeles County Treasurer and Tax Collector
DATE EXECUTED:	October 15, 2001
DATE RECORDED:	October 15, 2001
INSTRUMENT#:	2001-1957836

DEED TYPE:	Deed
GRANTEE:	Sen Van Ly
GRANTOR:	Xe Van Ly
DATE EXECUTED:	May 25, 1993
DATE RECORDED:	May 25, 1993
INSTRUMENT#:	1993-990582

DEED TYPE:	Deed
GRANTEE:	Xe Van Ly
GRANTOR:	Principal Land Investments
DATE EXECUTED:	March 23, 1988
DATE RECORDED:	March 23, 1988
INSTRUMENT#:	1988-393402

EDR Environmental Lien and AUL Search 1980

DEED TYPE:	Deed
GRANTEE:	Principal Land Investments
GRANTOR:	A.L. Arnold, Gerald L. Cobb
DATE EXECUTED:	March 23, 1988
DATE RECORDED:	March 23, 1988
INSTRUMENT#:	1988-392882

*Grantors acquired property in 1967. Public records of Los Angeles County, California were searched from January 1, 1980 through June 10, 2025 and no other deeds of record vesting title in the subject parcel were located during the period searched.

Parcel ID: 3376011035

DEED TYPE:	Grant Deed
GRANTEE:	Toni Roma Investments, LLC
GRANTOR:	Garik Tony Aroutiounian and Roma Kalantaryan
DATE EXECUTED:	December 09, 2021
DATE RECORDED:	December 27, 2021
INSTRUMENT#:	2021-1909493

DEED TYPE:	Deed
GRANTEE:	Garik Tony Aroutiounian and Roma Kalantaryan
GRANTOR:	John E. Houghton and Jacqueline D. Houghton
DATE EXECUTED:	February 09, 2021
DATE RECORDED:	February 09, 2021
INSTRUMENT#:	2021-224892

DEED TYPE:	Deed
GRANTEE:	John E. Houghton and Jacqueline D. Houghton
GRANTOR:	Dale E. Howard and Bonnie J. Howard, as Trustees of the Dale E. Howard and Bonnie J. Howard Family Trust
DATE EXECUTED:	August 05, 2004
DATE RECORDED:	August 05, 2004
INSTRUMENT#:	2004-2014000

DEED TYPE:	Deed
GRANTEE:	Dale E. Howard and Bonnie J. Howard
GRANTOR:	Dale E. Howard and Bonnie J. Howard
DATE EXECUTED:	March 16, 1983
DATE RECORDED:	March 16, 1983
INSTRUMENT#:	1983-294542

EDR Environmental Lien and AUL Search 1980

DEED TYPE:	Deed
GRANTEE:	Dale E. Howard and Bonnie J. Howard
GRANTOR:	Dale E. Howard and Bonnie J. Howard and Emmett M. Howard
DATE EXECUTED:	February 09, 1982
DATE RECORDED:	February 09, 1982
INSTRUMENT#:	1982-148966

Public records of Los Angeles County, California were searched from January 1, 1980 through June 10, 2025 and no other deeds of record vesting title in the subject parcel were located during the period searched.

EDR Environmental Lien and AUL Search 1980

CURRENT DEED EXHIBIT(S)

This page is part of your document - DO NOT DISCARD

20120880921

Recorded/Filed in Official Records
Recorder's Office, Los Angeles County,
California

06/13/12 AT 08:00AM

Pages:
0003

FEES:	32.00
TAXES:	19.80
OTHER:	0.00
PAID:	51.80

LEADSHEET

201206130140009

00005960241

004064884

SEQ:
03

DAR - Title Company (Hard Copy)

THIS FORM IS NOT TO BE DUPLICATED

T01

E534613

RECORDING REQUESTED BY

AND WHEN RECORDED MAIL THIS DEED AND, UNLESS OTHERWISE SHOWN BELOW, MAIL TAX STATEMENT TO

Name MAKS PROPERTIES LLC

Street Address P.O BOX 2075

City & State Zip LANCASTER, CA 93539

Title Order No Escrow No

06/13/2012

20120880921

SPACE ABOVE THIS LINE FOR RECORDER'S USE

Grant Deed

THE UNDERSIGNED GRANTOR (S) DECLARE (S)

DOCUMENTARY TRANSFER TAX IS $ 19 80 (80)

X unincorporated area City of

Parcel No 3376-006-012

☑ computed on full value of interest or property conveyed, or

☐ computed on full value less value of liens or encumbrances remaining at time of sale, and

FOR A VALUABLE CONSIDERATION, receipt of which is hereby acknowledged,

OSSAMA ELASSAAD, A MARRIED MAN AS HIS SOLE AND SEPARATE PROPERTY

hereby GRANT(S) to

MAKS PROPERTIES, A California Limited Liability Company

the following described real property in the

County of Los Angeles , state of California

Legal description attached hereto shown as exhibit A attached.

Dated 05-04-2012

STATE OF CALIFORNIA
COUNTY OF San Diego

On June 9, 2012 before me,

Vanessa Schiebel Notary Public
(here insert name and title of the officer)

,notary public, personally appeared Ossama Elassaad

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument

I certify under PENALTY OF PERJURY under the laws of the state of California that the foregoing paragraph is true and correct

WITNESS my hand and official seal

Signature

OSSAMA ELASSAAD

Ossama Elassaad

OSSAMA ELASSAAD

OFFICIAL SEAL
VANESSA SCHIEBEL
NOTARY PUBLIC-CALIFORNIA
COMM. NO. 1818732
SAN DIEGO COUNTY
MY COMM. EXP. OCT. 21, 2012

(This area for official notarial seal)

MAIL TAX STATEMENTS TO PARTY SHOWN ON FOLLOWING LINE; IF NO PARTY SHOWN, MAIL AS DIRECTED ABOVE

Name Street Address City & State

2A

(3)

EXHIBIT A

Legal Description

A.P.N. 3376-006-012

THE SOUTH 267.032 FEET OF THE NORTH 400.548 FEET OF THE EAST HALF OF THE SOUTHEAST QUARTER OF THE SOUTHEAST QUARTER OF THE SOUTHEAST QUARTER OF SECTION 18, TOWNSHIP 7 NORTH, RANGE 10 WEST, SAN BERNARDINO BASE AND MERIDIAN, IN THE COUNTY OF LOS ANGELES, STATE OF CALIFORNIA, ACCORDING TO THE OFFICIAL PLAT OF SAID LAND APPROVED BY SURVEYOR GENERAL JUNE 19, 1856.

This page is part of your document - DO NOT DISCARD

20211909493

Recorded/Filed in Official Records
Recorder's Office, Los Angeles County,
California

12/27/21 AT 08:00AM

Pages:
0003

FEES:	35.00
TAXES:	0.00
OTHER:	0.00
SB2:	75.00
PAID:	110.00

LEADSHEET

202112270220026

00021734169

013015485

SEQ:
01

SECURE - 8:00AM

THIS FORM IS NOT TO BE DUPLICATED

E438957

ET LA Accom South Street E

ACCOMMODATION

RECORDING REQUESTED BY:
Toni Roma Investments LLC,

WHEN RECORDED MAIL TO:

Roma Kalantaryan, Member
Garik Tony Aroutiounian, Member
2427 Flintridge Drive
Glendale, CA. 91206

ASSESSOR'S PARCEL NO.: 3376-011-035

GRANT DEED

The Undersigned Grantor(s) Declares that Documentary transfer tax is $ 0.00 and CITY TAX IS $0.00
(x) computed on full value of property conveyed, OR
( ) computed on the full value less liens of encumbrances remaining at the time of sale.
(X) unincorporated area ( ) Area of Lancaster **AND**

FOR A VALUABLE CONSIDERATION, receipt of which is hereby acknowledged,
Garik Tony Aroutiounian, a single man and Roma Kalantaryan, a single woman, as joint tenants

hereby GRANT(S) to **Toni Roma Investments LLC, a California Limited Liability Company**

The following real property in the Area of Lancaster, County of Los Angeles, State of California:
described as: See Attached, Exhibit 'A', made a part hereof
More commonly known as: 44434 90Th St E, Lancaster, CA 93535

"The Grantor and the grantee in this conveyance are comprised of the same parties who continue to hold the same proportionate interest in the property, R&T11925(d)"

Date: December 9, 2021

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

Garik Tony Aroutiounian, owner

Roma Kalantaryan, owner

STATE OF CALIFORNIA)
COUNTY OF Los Angeles)

On December 10, 2021 before me, Vrezh Stepanian, a notary public, Personally appeared Garik Tony Aroutiounian & Roma Kalantaryan

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s) or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

VREZH STEPANIAN
Notary Public - California
Los Angeles County
Commission # 2253070
My Comm. Expires Aug 7, 2022

Witness my hand and official seal.

Signature _____ (This area for official notarial seal)

MAIL TAX STATEMENTS TO PARTY SHOWN ABOVE

EXHIBIT A
Legal Description

The land hereinafter referred to is situated in the Area of Lancaster, County of Los Angeles, State of California, and is described as follows:

Parcel 1:

The North 80 feet of the South 490 feet of the West half of the Southwest quarter of Section 17, Township 7 North, Range 10 West, San Bernardino Meridian, in the County of Los Angeles, State of California, according to the Official Plat of said land.

Except the East 1091.34 feet of said land, measured along the South line thereof.

Said land is a portion of Parcel 2, as shown on a Record of survey, filed in Book 66, Page 1 of Record of surveys of said County.

Parcel 2:

The North 80 feet of the South 410 feet of the West half of the Southwest quarter of Section 17, Township 7 North, Range 10 West, San Bernardino Meridian, in the County of Los Angeles, State of California, according to the Official Plat of said land approved by the Surveyor General on June 19, 1856.

Except the East 1091.34 feet of said land, measured along the South line thereof.

Said land is a portion of Parcel 2 as shown on a Record of Survey, filed in Book 66, Page 1 of Record of Surveys of said County.

APN: 3376-011-035

Appendix E

Historical Research Documentation

Lancaster Properties

44434 90TH ST E

LANCASTER, CA 93535

Inquiry Number: 8020014.11

June 16, 2025

The EDR Aerial Photo Decade Package

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Aerial Photo Decade Package

06/16/25

Site Name:

Lancaster Properties
44434 90TH ST E
LANCASTER, CA 93535
EDR Inquiry # 8020014.11

Client Name:

NV5
3777 Long Beach Blvd
Long Beach, CA 90807-0000
Contact: Eric Fraske

Environmental Data Resources, Inc. (EDR) Aerial Photo Decade Package is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's professional researchers provide digitally reproduced historical aerial photographs, and when available, provide one photo per decade.

Search Results:

Year	Scale	Details	Source
2022	1"=500'	Flight Year: 2022	USDA/NAIP
2018	1"=500'	Flight Year: 2018	USDA/NAIP
2014	1"=500'	Flight Year: 2014	USDA/NAIP
2010	1"=500'	Flight Year: 2010	USDA/NAIP
2005	1"=500'	Flight Year: 2005	USDA/NAIP
2003	1"=500'	Flight Date: May 26, 2003	USDA
1994	1"=500'	Acquisition Date: May 28, 1994	USGS/DOQQ
1983	1"=500'	Flight Date: November 03, 1983	EDR Proprietary Brewster Pacific
1981	1"=500'	Flight Date: February 18, 1981	EDR Proprietary Brewster Pacific
1979	1"=500'	Flight Date: January 22, 1979	EDR Proprietary Brewster Pacific
1977	1"=500'	Flight Date: February 14, 1977	EDR Proprietary Brewster Pacific
1968	1"=500'	Flight Date: March 25, 1968	Teledyne
1953	1"=500'	Flight Date: April 15, 1953	USDA
1948	1"=500'	Flight Date: November 20, 1948	USDA
1940	1"=500'	Flight Date: May 02, 1940	USDA
1928	1"=500'	Flight Date: January 01, 1928	FAIR

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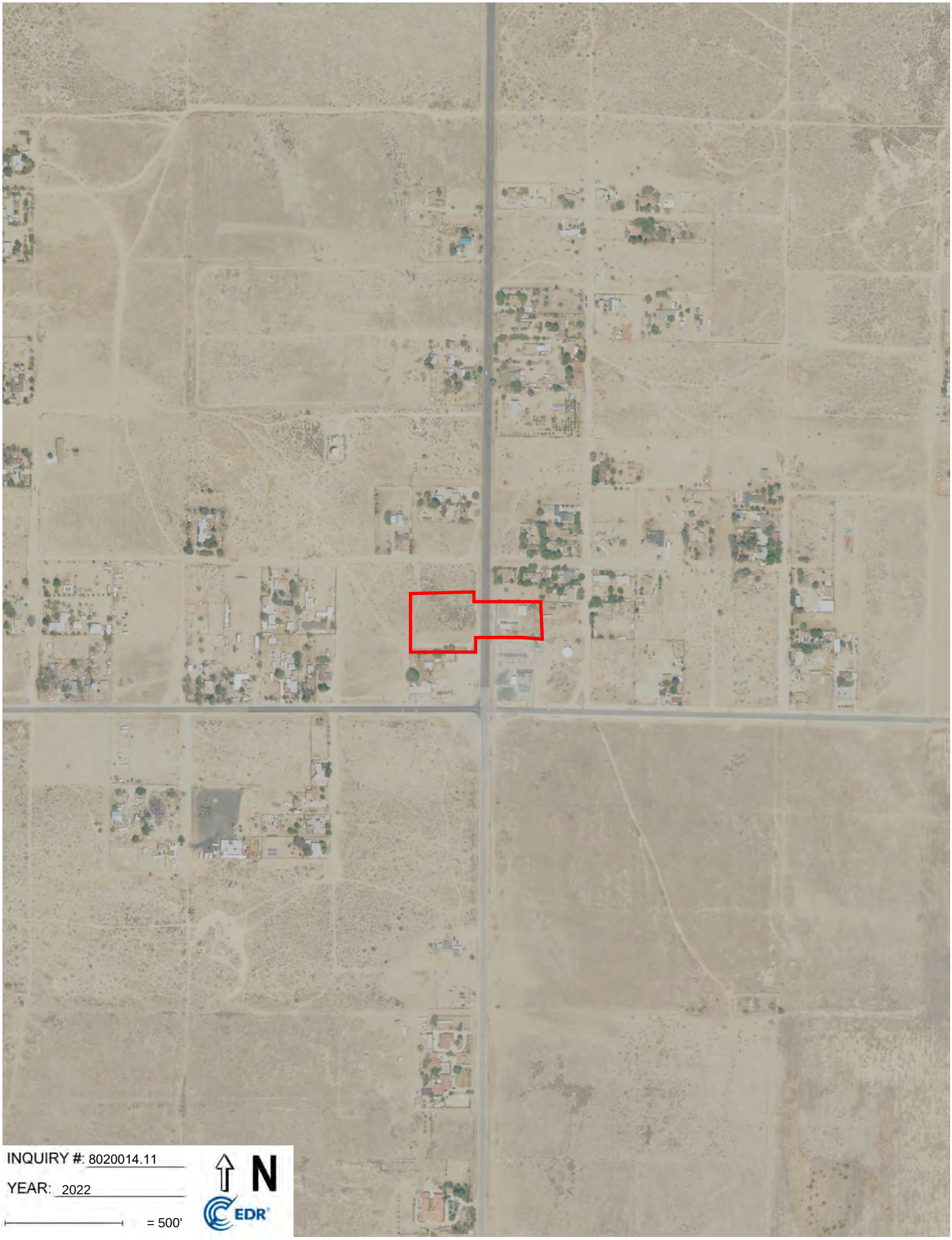
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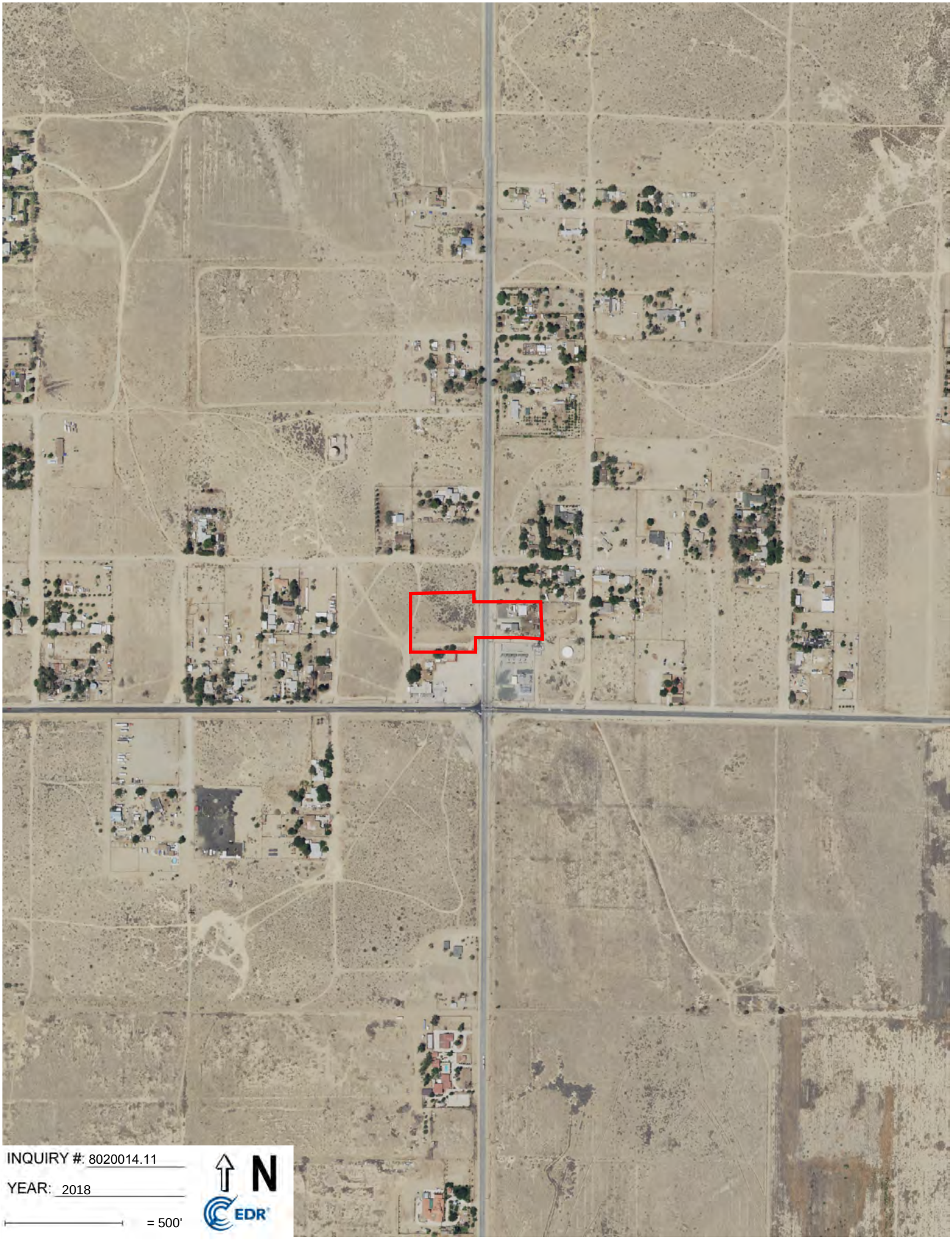
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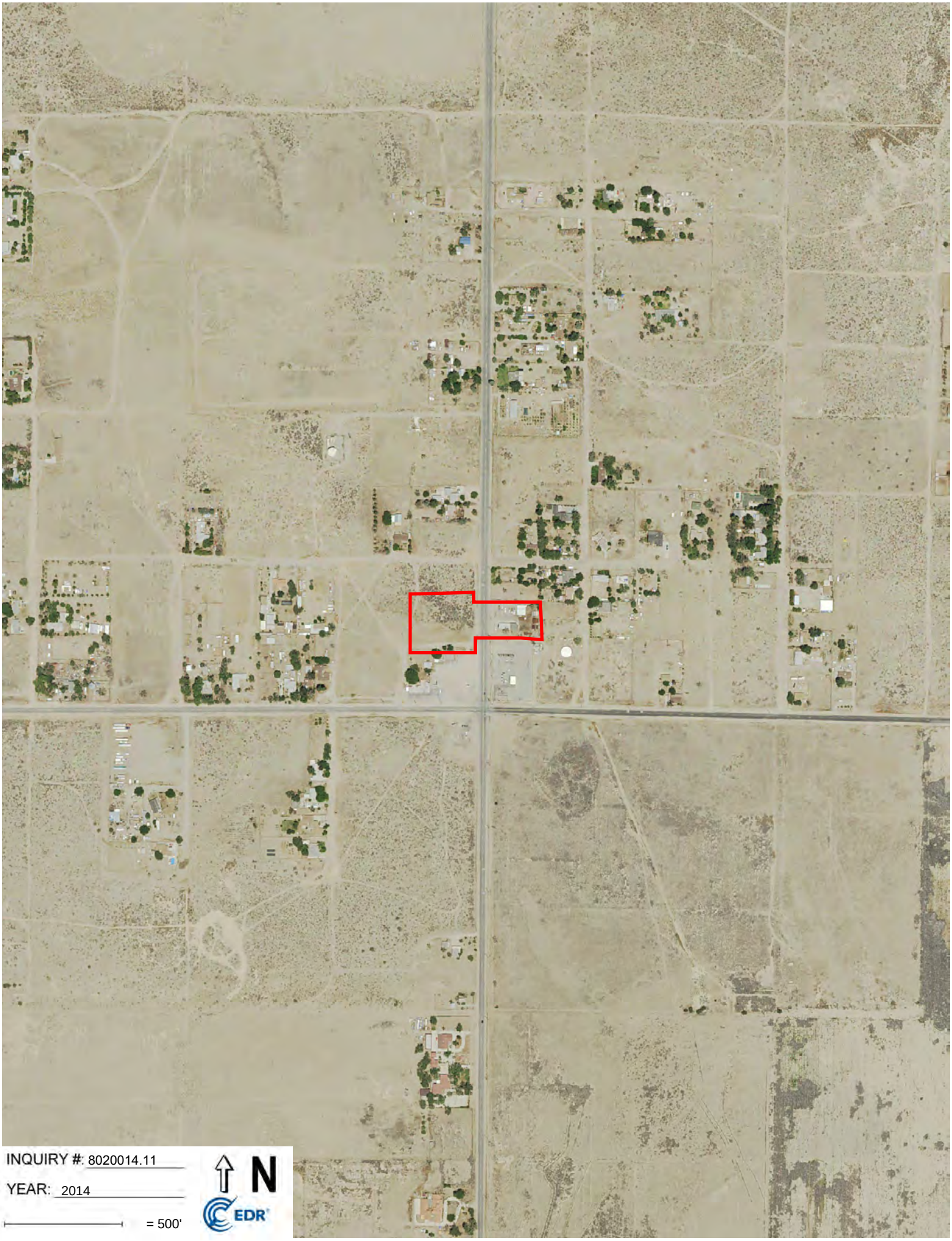
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YEAR: 2022
= 500'
N
EDR

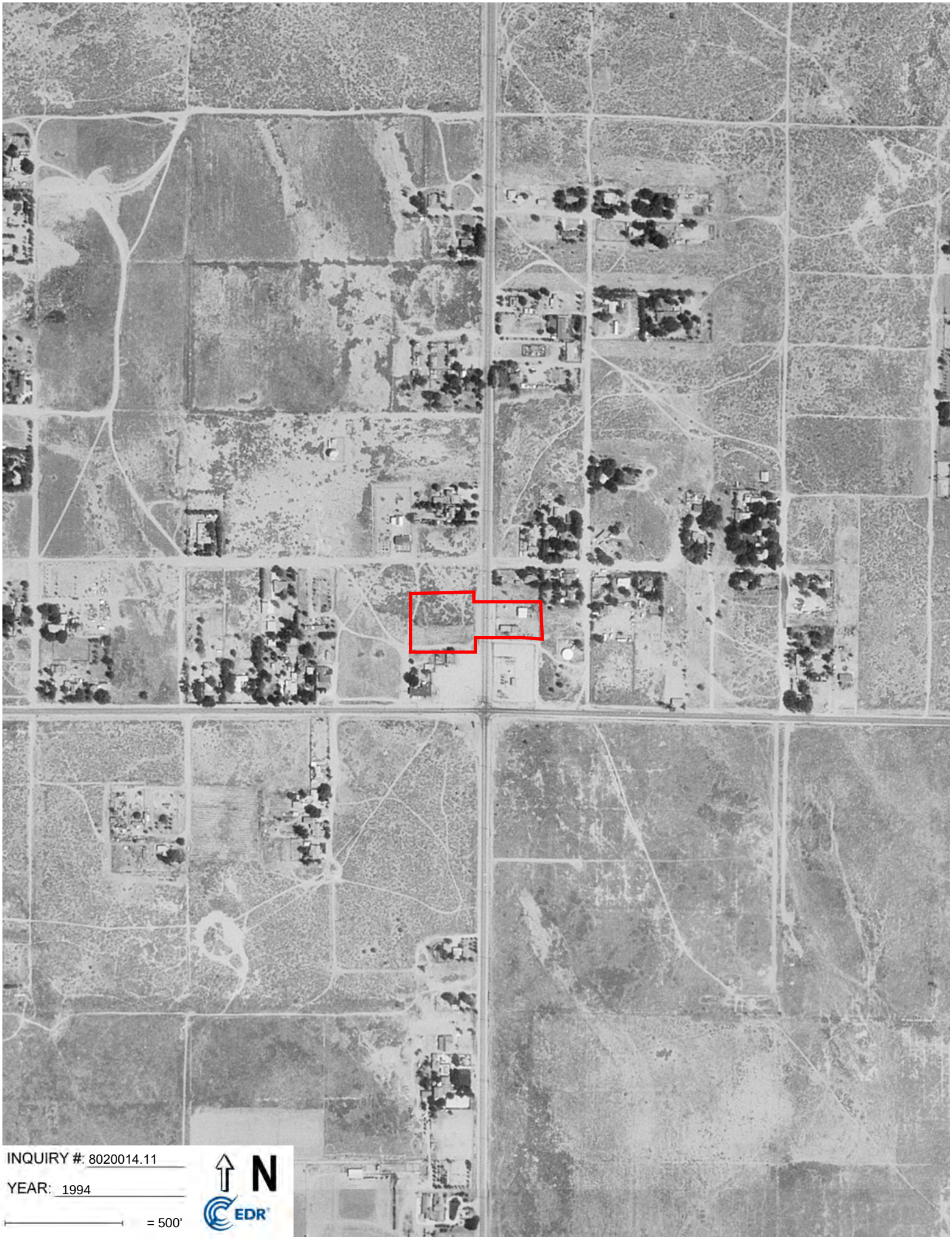

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EDR


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EDR


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YEAR: 2010
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EDR


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EDR


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EDR



INQUIRY #: 8020014.11

YEAR: 1994

= 500'

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EDR


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YEAR: 1983
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EDR



INQUIRY #: 8020014.11

YEAR: 1981

= 500'

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EDR


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EDR


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EDR


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N
EDR



INQUIRY #: 8020014.11

YEAR: 1953

= 500'

N

EDR


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N
EDR



INQUIRY #: 8020014.11

YEAR: 1940

= 500'

N

EDR


INQUIRY #: 8020014.11
YEAR: 1928
= 500'
N
EDR

Lancaster Properties
44434 90TH ST E
LANCASTER, CA 93535

Inquiry Number: 8020014.3
June 16, 2025

Certified Sanborn® Map Report

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

Certified Sanborn® Map Report

06/16/25

Site Name:

Lancaster Properties
44434 90TH ST E
LANCASTER, CA 93535
EDR Inquiry # 8020014.3

Client Name:

NV5
3777 Long Beach Blvd
Long Beach, CA 90807-0000
Contact: Eric Fraske

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Certified Sanborn Results:

Certification # CE70-4E47-9CD0

PO # 4470425-0007958.00

Project Lancaster Properties

UNMAPPED PROPERTY

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Sanborn® Library search results

Certification #: CE70-4E47-9CD0

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- ☑ Library of Congress
- ☑ University Publications of America
- ☑ EDR Private Collection

The Sanborn Library LLC Since 1866™

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Lancaster Properties
44434 90TH ST E
LANCASTER, CA 93535

Inquiry Number: 8020014.4
June 16, 2025

EDR Historical Topo Map Report

with QuadMatch™

6 Armstrong Road, 4th floor
Shelton, CT 06484
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EDR Historical Topo Map Report

06/16/25

Site Name:	Client Name:
Lancaster Properties	NV5
44434 90TH ST E	3777 Long Beach Blvd
LANCASTER, CA 93535	Long Beach, CA 90807-0000
EDR Inquiry # 8020014.4	Contact: Eric Fraske

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Search Results:		*Coordinates:*	
P.O.#	4470425-0007958.00	**Latitude:**	34.691415 34° 41' 29" North
Project:	Lancaster Properties	**Longitude:**	-117.969885 -117° 58' 12" West
		UTM Zone:	Zone 11 North
		UTM X Meters:	411163.91
		UTM Y Meters:	3839251.00
		Elevation:	2450.00' above sea level

Maps Provided:

2021	1945
2018	1933
2015	1930
2012	
1992	
1989	
1974	
1957	

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Topo Sheet Key

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2021 Source Sheets



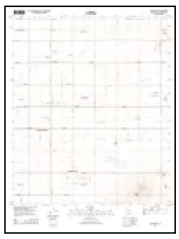
Alpine Butte
2021
7.5-minute, 24000

2018 Source Sheets



Alpine Butte
2018
7.5-minute, 24000

2015 Source Sheets



Alpine Butte
2015
7.5-minute, 24000

2012 Source Sheets



Alpine Butte
2012
7.5-minute, 24000

Topo Sheet Key

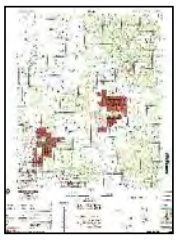
This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1992 Source Sheets



Alpine Butte
1992
7.5-minute, 24000
Aerial Photo Revised 1989

1989 Source Sheets



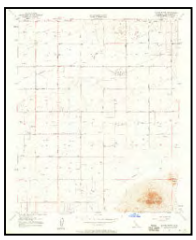
HI VISTA
1989
15-minute, 50000

1974 Source Sheets



Alpine Butte
1974
7.5-minute, 24000
Aerial Photo Revised 1974

1957 Source Sheets



Alpine Butte
1957
7.5-minute, 24000
Aerial Photo Revised 1955

Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1945 Source Sheets



Alpine Butte
1945
15-minute, 62500
Aerial Photo Revised 1943

1933 Source Sheets



West Alpine Butte
1933
7.5-minute, 24000



Casa Desierta
1933
7.5-minute, 24000

1930 Source Sheets



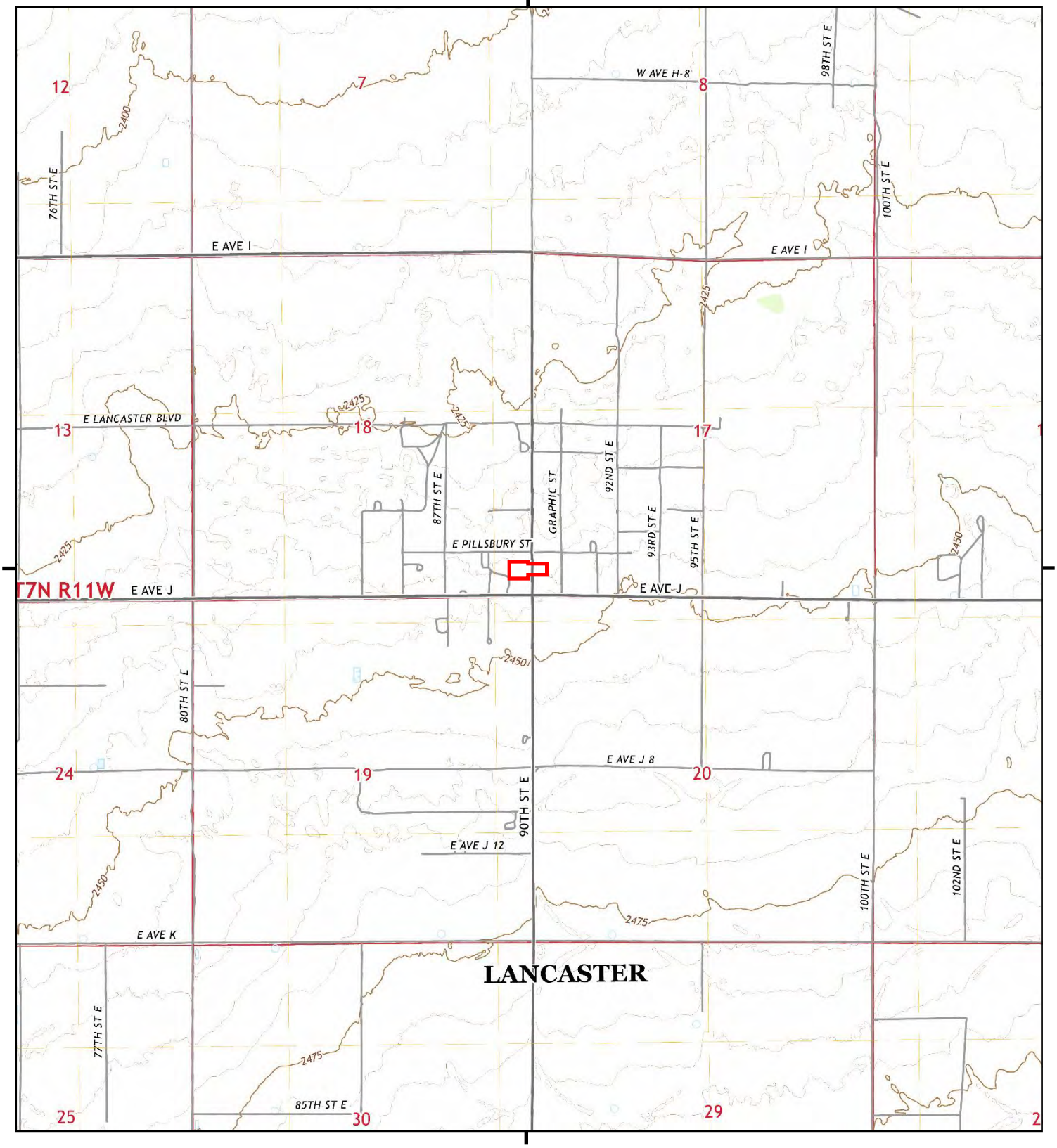
West Alpine Butte
1930
7.5-minute, 24000



Casa Desierta
1930
7.5-minute, 24000

Historical Topo Map

2021



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

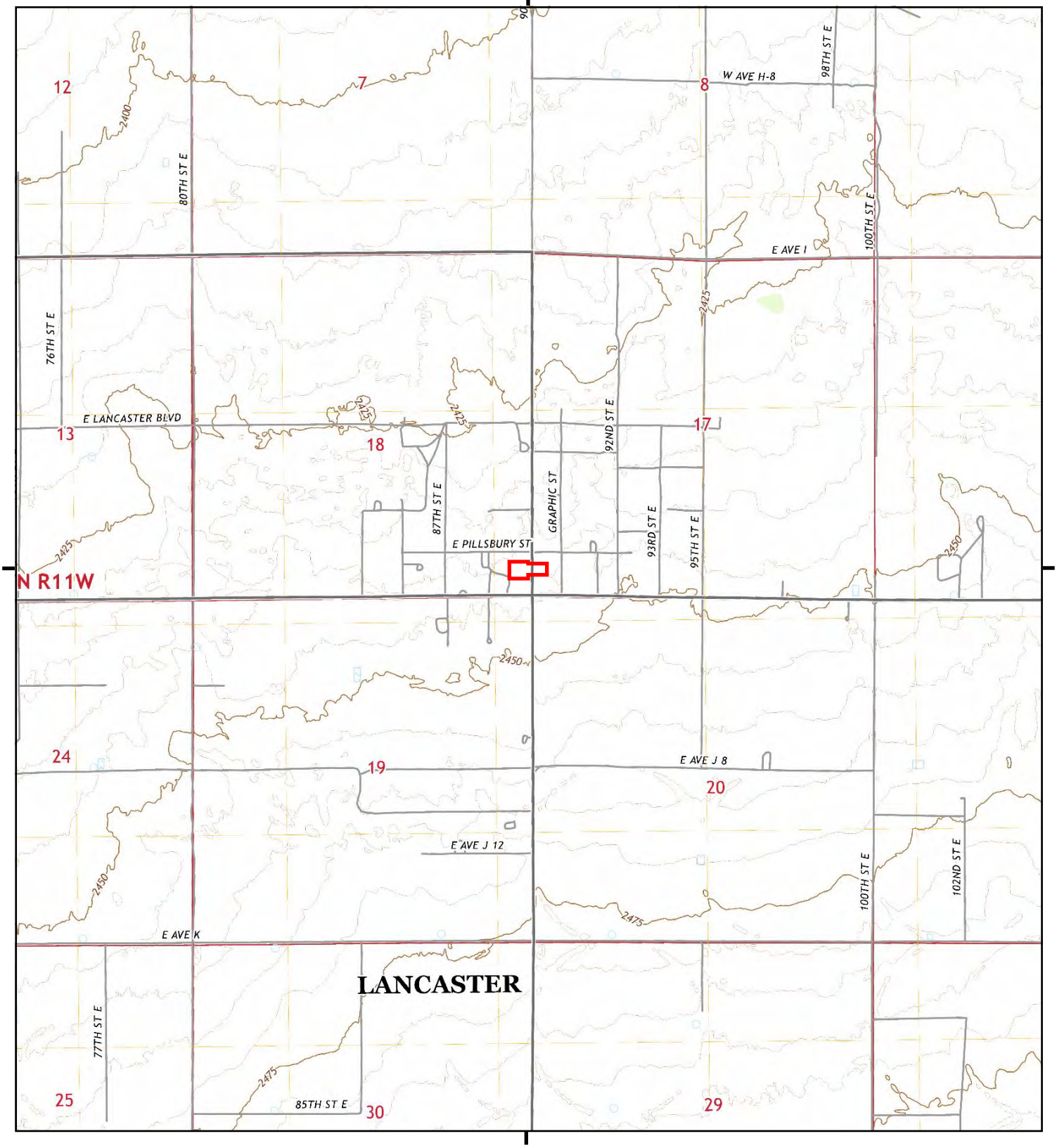
TP, Alpine Butte, 2021, 7.5-minute

SITE NAME: Lancaster Properties
ADDRESS: 44434 90TH ST E
LANCASTER, CA 93535
CLIENT: NV5

N

Historical Topo Map

2018



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

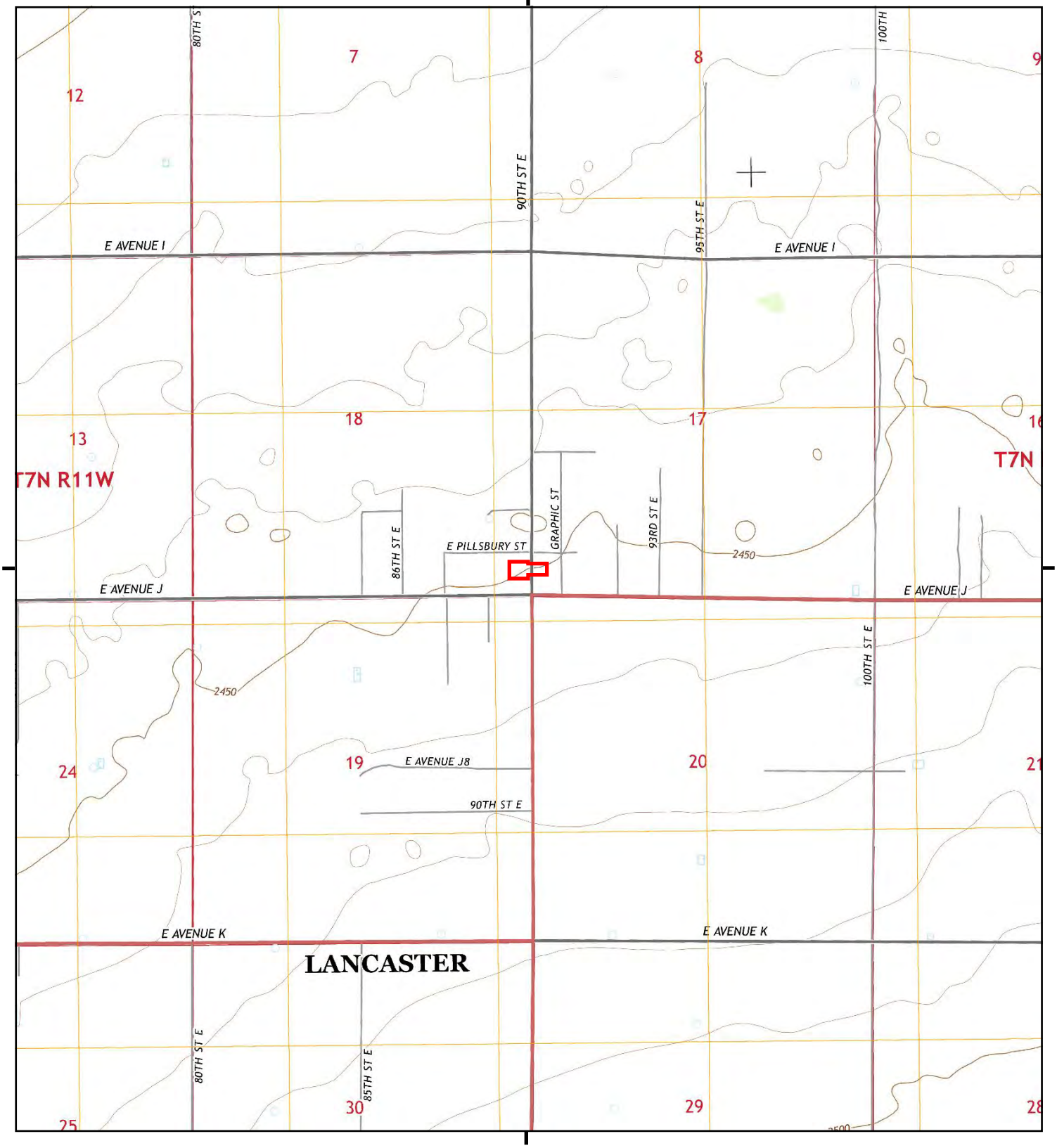
TP, Alpine Butte, 2018, 7.5-minute

SITE NAME: Lancaster Properties
ADDRESS: 44434 90TH ST E
LANCASTER, CA 93535
CLIENT: NV5

N

Historical Topo Map

2015



This report includes information from the following map sheet(s).

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NW N NE
W E
SW S SE

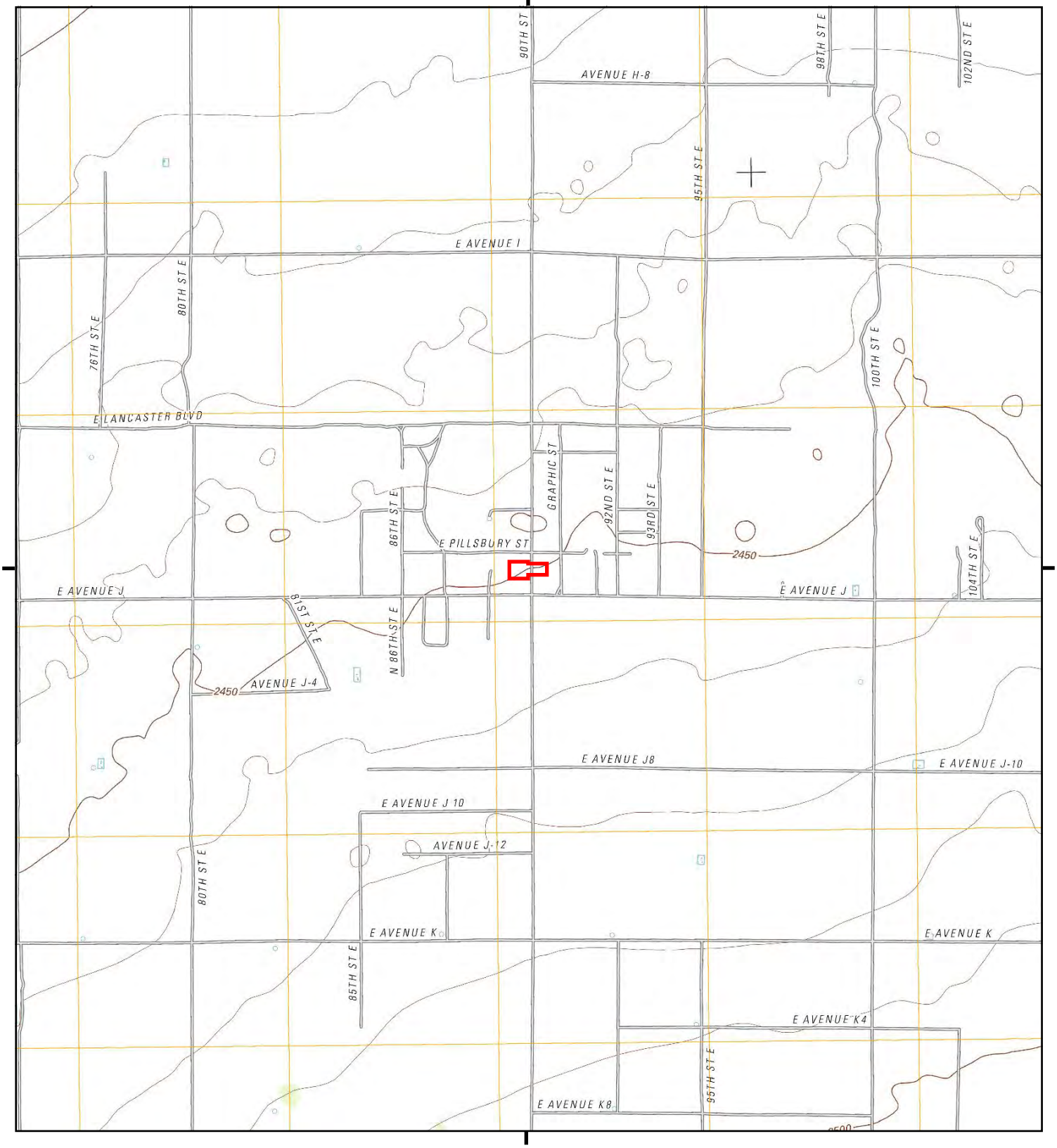
TP, Alpine Butte, 2015, 7.5-minute

SITE NAME: Lancaster Properties
ADDRESS: 44434 90TH ST E
LANCASTER, CA 93535
CLIENT: NV5

N

Historical Topo Map

2012



This report includes information from the following map sheet(s).

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W E
SW S SE

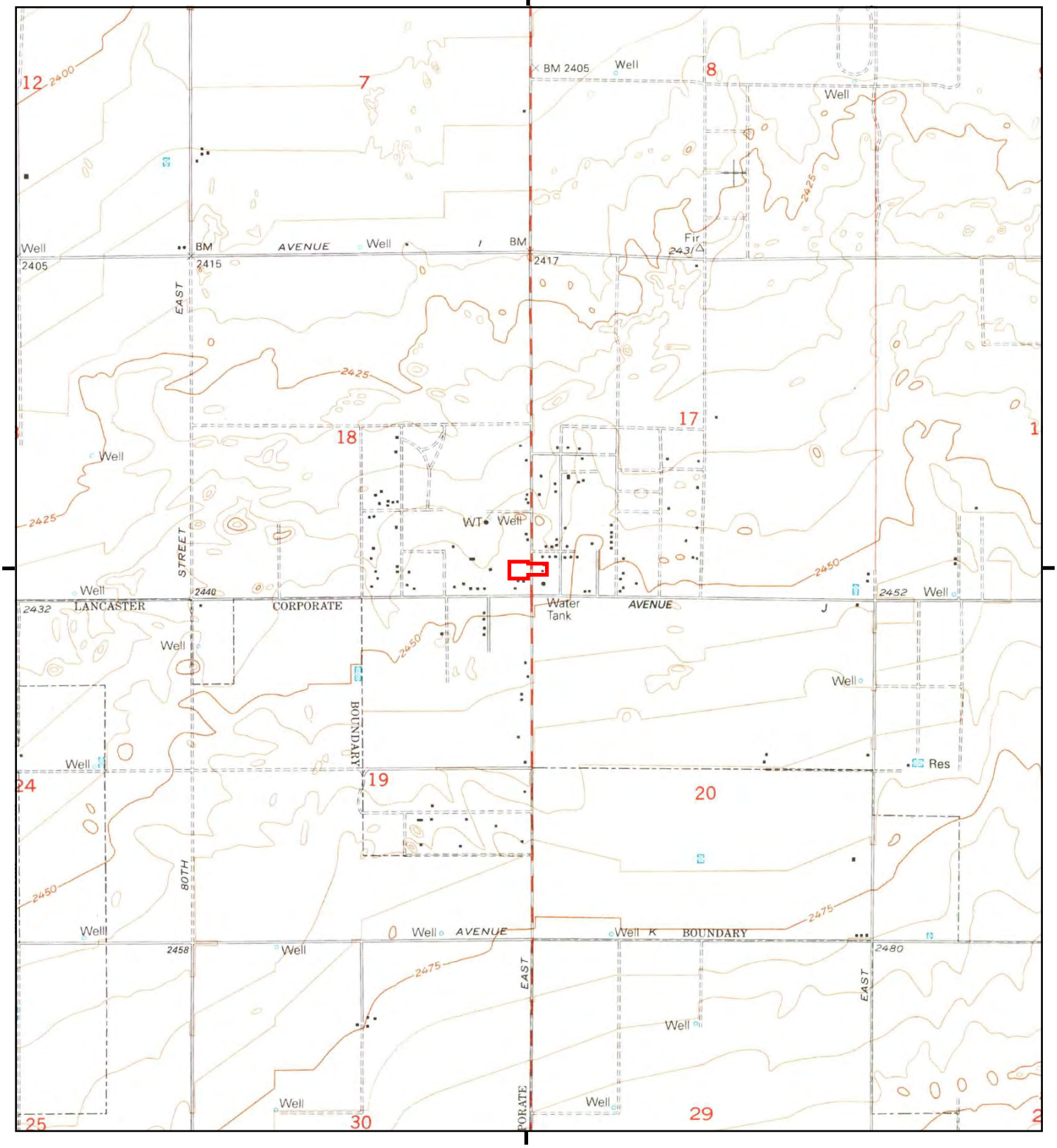
TP, Alpine Butte, 2012, 7.5-minute

SITE NAME: Lancaster Properties
ADDRESS: 44434 90TH ST E
LANCASTER, CA 93535
CLIENT: NV5

N

Historical Topo Map

1992



This report includes information from the following map sheet(s).

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NW N NE
W E
SW S SE

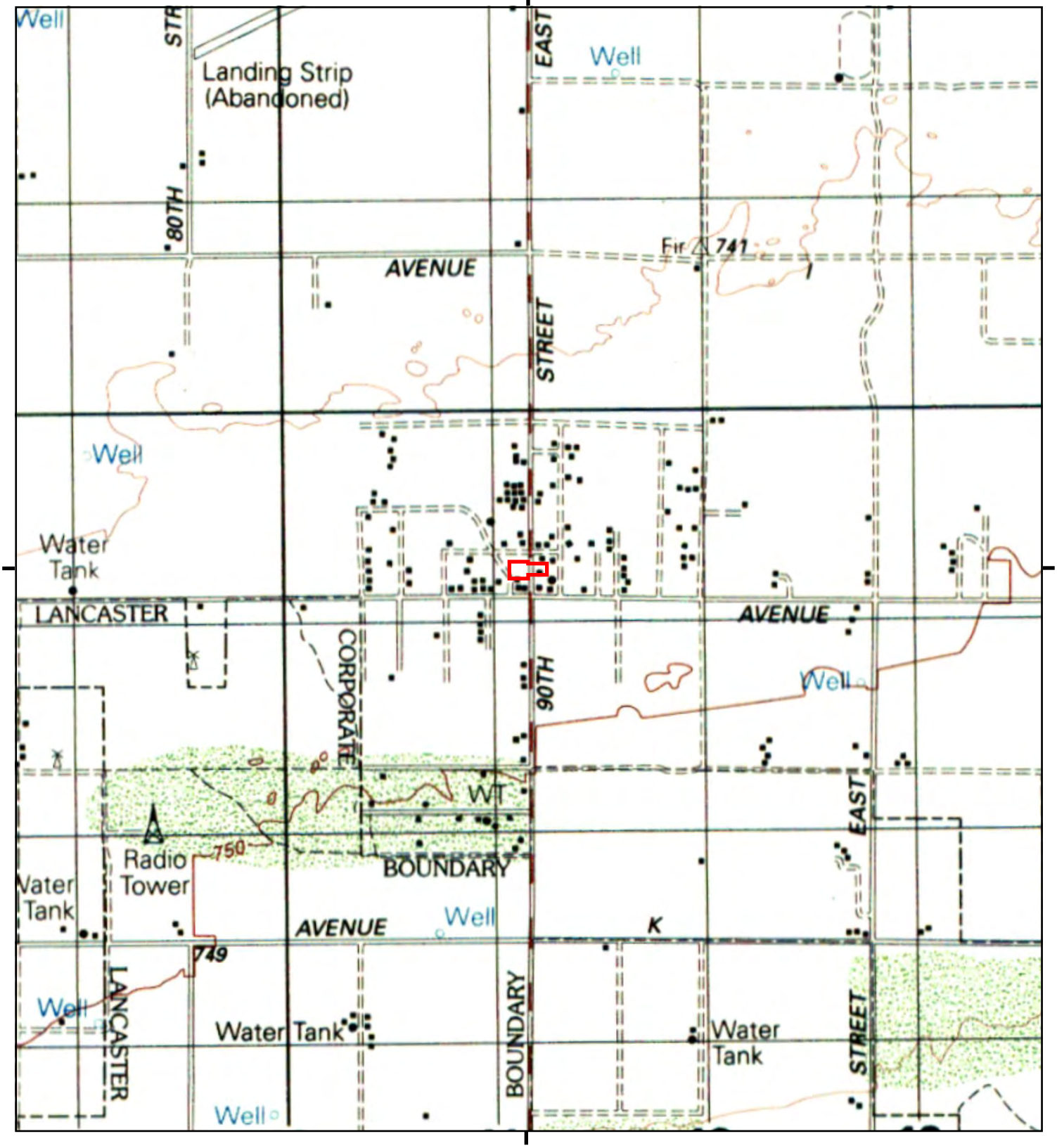
TP, Alpine Butte, 1992, 7.5-minute

SITE NAME: Lancaster Properties
ADDRESS: 44434 90TH ST E
LANCASTER, CA 93535
CLIENT: NV5

N

Historical Topo Map

1989



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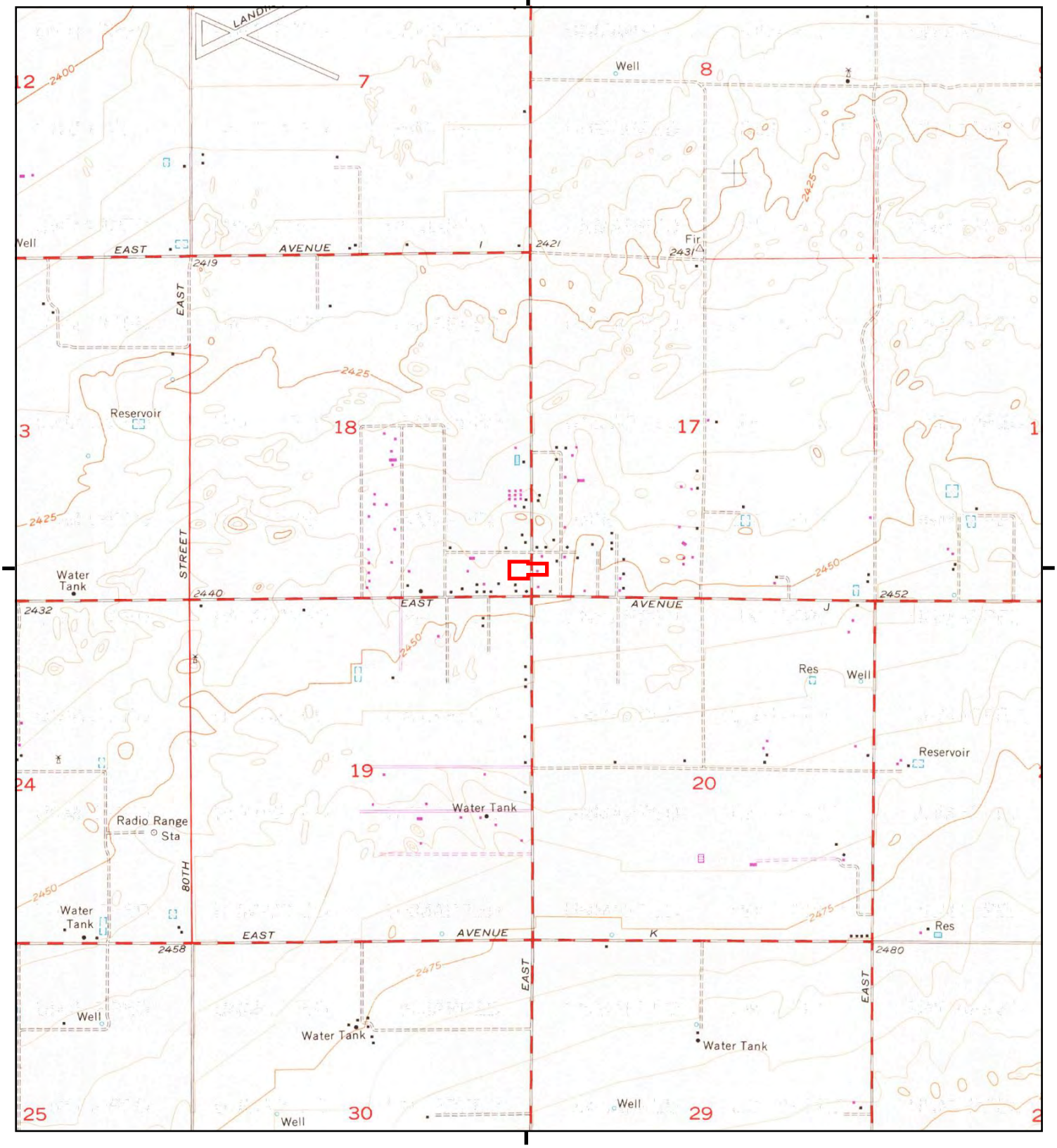
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, HI VISTA, 1989, 15-minute

SITE NAME: Lancaster Properties
ADDRESS: 44434 90TH ST E
LANCASTER, CA 93535
CLIENT: NV5

N



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

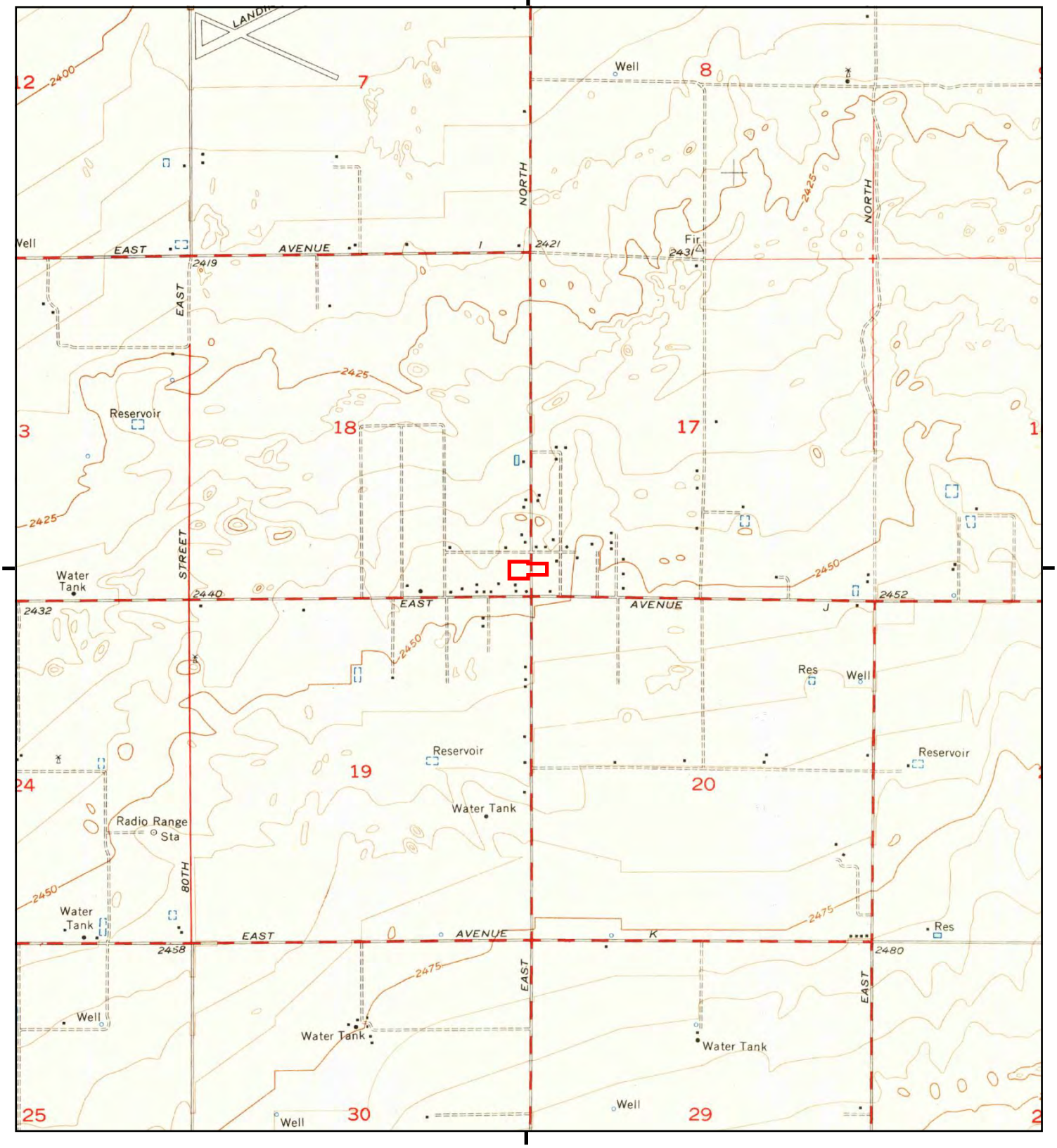
TP, Alpine Butte, 1974, 7.5-minute

SITE NAME: Lancaster Properties
ADDRESS: 44434 90TH ST E
LANCASTER, CA 93535
CLIENT: NV5

N

Historical Topo Map

1957



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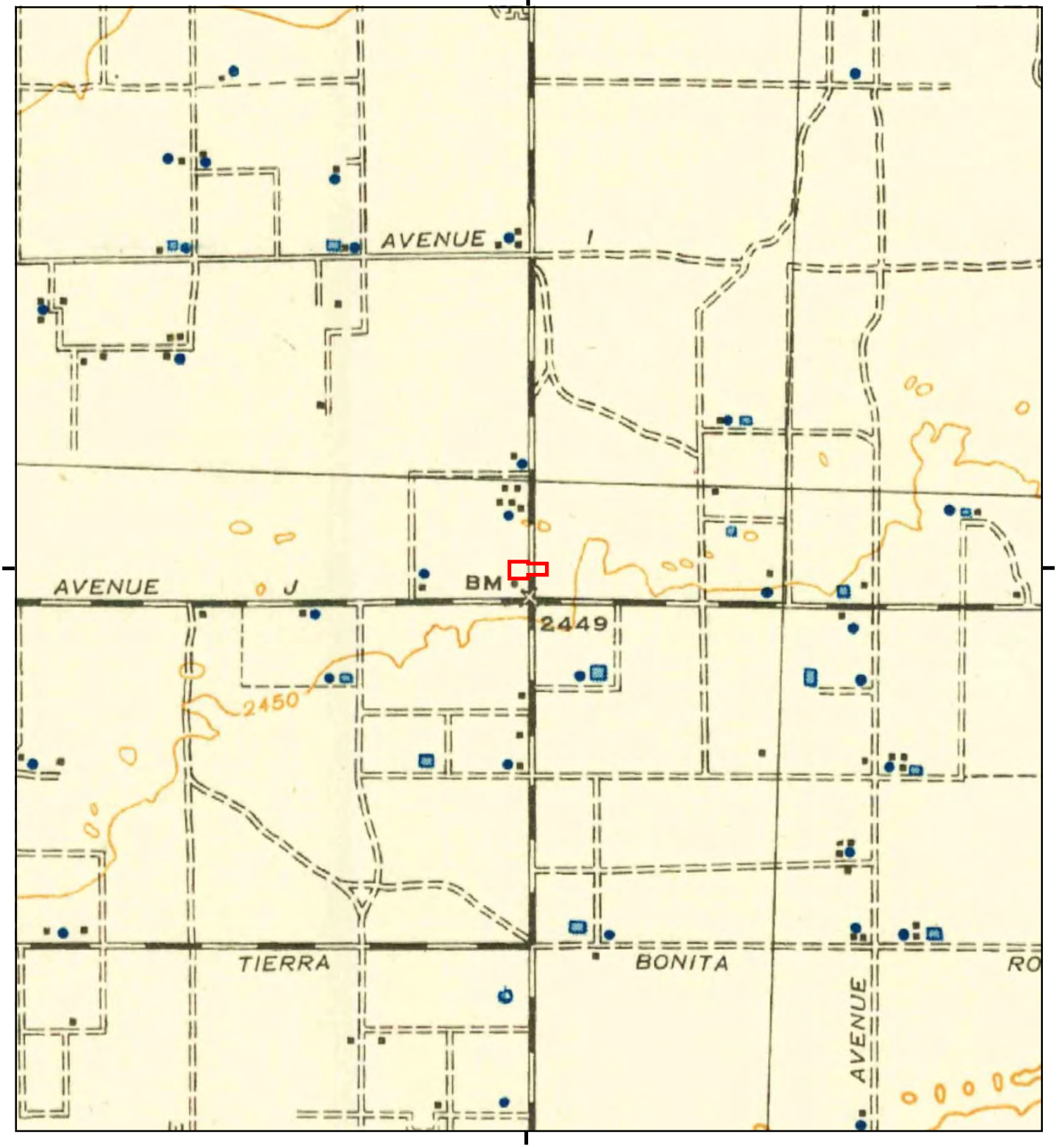
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Alpine Butte, 1957, 7.5-minute

SITE NAME: Lancaster Properties
ADDRESS: 44434 90TH ST E
LANCASTER, CA 93535
CLIENT: NV5

N



This report includes information from the following map sheet(s).

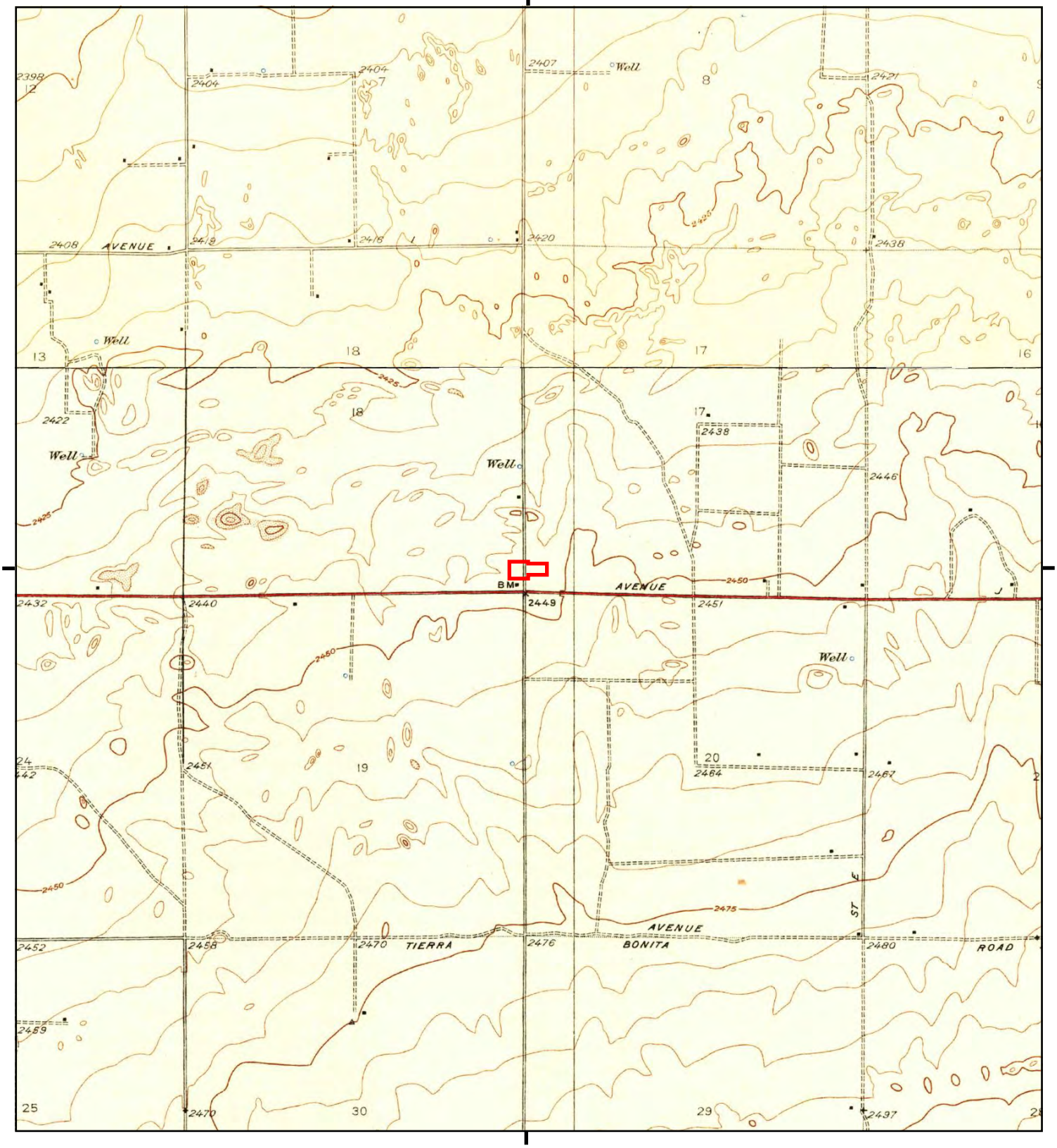
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Alpine Butte, 1945, 15-minute

SITE NAME: Lancaster Properties
ADDRESS: 44434 90TH ST E
LANCASTER, CA 93535
CLIENT: NV5

N



This report includes information from the following map sheet(s).

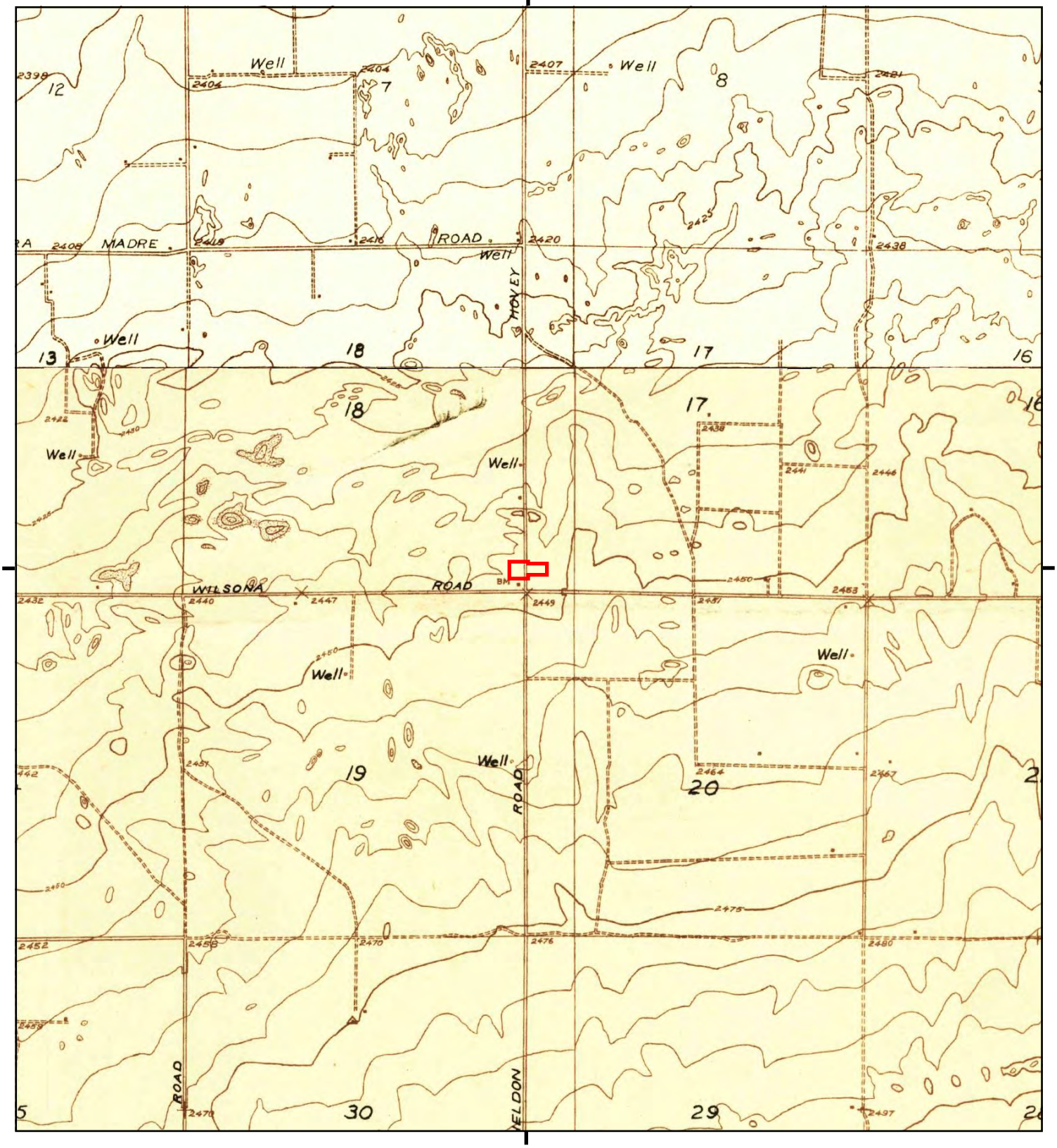
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, West Alpine Butte, 1933, 7.5-minute
N, Casa Desierta, 1933, 7.5-minute

SITE NAME: Lancaster Properties
ADDRESS: 44434 90TH ST E
LANCASTER, CA 93535
CLIENT: NV5

N



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, West Alpine Butte, 1930, 7.5-minute
N, Casa Desierta, 1930, 7.5-minute

SITE NAME: Lancaster Properties
ADDRESS: 44434 90TH ST E
LANCASTER, CA 93535
CLIENT: NV5

N

Lancaster Properties
44434 90TH ST E
LANCASTER, CA 93535

Inquiry Number: 8020014.5
June 18, 2025

The EDR-City Directory Image Report

EDR® Environmental Data Resources Inc

6 Armstrong Road
Shelton, CT 06484
800.352.0050
www.edrnet.com

TABLE OF CONTENTS

SECTION

Executive Summary

Findings

City Directory Images

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EXECUTIVE SUMMARY

DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Report is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Report includes a search of available business directory data at approximately five year intervals.

RECORD SOURCES

The EDR City Directory Report accesses a variety of business directory sources, including Haines, InfoUSA, Polk, Cole, Bresser, and Stewart. Listings marked as EDR Digital Archive access Cole and InfoUSA records. The various directory sources enhance and complement each other to provide a more thorough and accurate report.

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RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. A check mark indicates where information was identified in the source and provided in this report.

Year	*Target Street*	*Cross Street*	*Source*
2020	☑	☐	EDR Digital Archive
2017	☐	☐	Cole Information
2014	☑	☐	Cole Information
2010	☑	☐	Cole Information
2005	☑	☐	Cole Information
2000	☑	☐	Cole Information
1995	☑	☐	Cole Information
1992	☑	☐	Cole Information
1987	☑	☐	Haines Criss-Cross Directory
1982	☑	☐	Haines Criss-Cross Directory
1976	☑	☐	Haines Criss-Cross Directory
1971	☑	☐	B & G City Directory

FINDINGS

TARGET PROPERTY STREET

44434 90TH ST E
LANCASTER, CA 93535

Year	*CD Image*	*Source*	
90TH ST E			
2020	pg A2	EDR Digital Archive	
2017	-	Cole Information	Target and Adjoining not listed in Source
2014	pg A5	Cole Information	
2010	pg A6	Cole Information	
2005	pg A7	Cole Information	
2000	pg A8	Cole Information	
1995	pg A9	Cole Information	
1992	pg A10	Cole Information	
1987	pg A11	Haines Criss-Cross Directory	
1987	pg A12	Haines Criss-Cross Directory	
1982	pg A13	Haines Criss-Cross Directory	
1976	pg A14	Haines Criss-Cross Directory	
1976	pg A15	Haines Criss-Cross Directory	
1971	pg A16	B & G City Directory	
E 90TH ST			
2020	pg A4	EDR Digital Archive	

FINDINGS

CROSS STREETS

No Cross Streets Identified

City Directory Images

Target Street	Cross Street	Source
✓	-	EDR Digital Archive

90TH ST E 2020

43803	DONALD EATON
	HELEN JOHNSON
43805	JOHN FURUBOTTEN
	JOSE PANCHAME
	LEAH FURUBOTTEN
43807	JACK HARVEY
	NORMA HARVEY
	SCOTT HARVEY
43841	CARVEL BROWN
	CARVEL MELODY
	GRIZELDA LOPEZ
43843	KATHRYN MEJIA
	PEDRO MEJIA
	SCOTT TERUYA
43847	MARJIE KING
43907	NICOLE TINSLEY
	STEVEN SILVA
43909	JIHAN HOLLMAN
	MARIA HOLLMAN
43911	CHARLES TONA
	DESIRAY TONA
	JULIE TONA
	TOMMY TONA
44005	MARIO RAMIREZ
44127	DOROTHY DELIA
	JOHN RUSK
	JOSEPH DELIA
44161	JOHN RUSK
	WILLIAM DAIMANT
44434	JOHN HOUGHTON
44560	ANAIT ALTUNYAN
	OGANES ALTUNYAN
44611	DAVID FRANZ
	SHANNON FRANZ
	WILLIAM FRANZ
44612	DIANA GINN
	MICHAEL LEWIS
44628	JOHN GIRDLESTONE
	KELSEY THOMPSON
	LYNN GIRDLESTONE
	RICHARD THOMPSON
	SHARON GIRDLESTONE
44636	DANIEL SCHELL
	GENEVA SCHELL
	NICHOLAS SCHELL
	VICTORIA SCHELL
44650	CYNTHIA ROTH
44733	DANIEL HERZOG
	FRANKLIN LOVELL
	SHERRI HERZOG

90TH ST E 2020 (Cont'd)

44808	WILLIAM TATONE
45521	REGINA BROWN
48454	AMANDA HELLWIG
48456	JOSE GONZALEZ
48464	GERALDINE DRAKE
	OLIN DERRICK
48810	DANIEL LEMUS
	JOSE LEMUS
	MARIA LEMUS
48812	ALI VILLEGAS
	IRENE VILLEGAS
	MANUEL VILLEGAS

Target Street	Cross Street	Source
✓	-	EDR Digital Archive

E 90TH ST 2020

43927 COPART SALVAGE AUTO AUCTIONS
44423 DIEM XUA RESTAURANT
44434 DRC PUMP SYSTEMS

Target Street	Cross Street	Source
✓	-	Cole Information

90TH ST E 2014

43803 EATON, DONALD L
43805 OCCUPANT UNKNOWN,
43807 HARVEY, JACK G
43841 OCCUPANT UNKNOWN,
43843 TERUYA, SCOTT
43847 KING, ALISEN
43907 VEINOT, JOSEPH
43909 STRATMAN, ADAIRE J
43911 KENNEDY, KESORN
43927 ECOLOGY AUTO PARTS
44051 FELIX, GRISELDA
44127 OWENS, JAMES
44161 WALKER, LEE E
44203 HUNT, DARRIN
44434 D R C PUMP SYSTEMS
44519 GUERRERO, PEDRO R
44529 GONZALEZ, LAURA
44560 ALTUNYAN, OGANES
44611 FRANZ, DAVID
44612 GINN, RONALD W
44628 GIRDLESTONE, KENT
44636 OCCUPANT UNKNOWN,
44650 ROTH, CYNTHIA K
44709 BRITO, O G
44733 HERZOG, DANIEL R
44808 TATONE, WILLIAM M
45521 ANDERSON, S
GARZA, ALEX
HERSTEIN, CHRISTOPHER L
HUMPHREY, JULIE E
OCCUPANT UNKNOWN,
SALAZAR, RAUL
45763 WOOD, RICHARD A
47117 OCCUPANT UNKNOWN,
48408 OCCUPANT UNKNOWN,
48454 MARTINEZ, GABRIELA
48456 BRENNEMAN, LUELLA
48464 DRAKE, FRANCIS W
48601 OCCUPANT UNKNOWN,
48810 RUBIO, RUBEN
48812 ALONSO, ALI V
48814 MEZA, NIEVES
48816 POOL, GARY

Target Street	Cross Street	Source
✓	-	Cole Information

90TH ST E 2010

43803 EATON, DONALD L
43807 HARVEY, JACK G
43841 FLORES, OSCAR
OCCUPANT UNKNOWN,
43843 MEJIA, PEDRO J
43845 READING, SUN Y
43847 KING, JESSU
43907 VEINOT, LINDA C
43909 STRATMAN, ADAIRE J
43911 ANDREPONT, TODD V
STEFFAN, MICHAEL W
44051 RAMIREZ, MARIO
44127 DELIA, JOSEPH E
44203 OCCUPANT UNKNOWN,
44207 DELIA, SOO
44434 DRC PUMP SYSTEMS
44529 JONES, TODD
44560 ALTUNYAN, OGANES
44611 PAPE, THEODORE D
44612 GINN, RONALD W
44628 GIRDLESTONE, JOHN K
44636 OCCUPANT UNKNOWN,
44709 ADELAR, MARIA F
44733 HERZOG, DANIEL R
44808 TATONE, WILLIAM M
45521 ANDERSON, S
GARZA, ALEX
HERSTEIN, ROXANNE
WHEELER, DANIELLE
45763 WOOD, RICHARD A
47117 OCCUPANT UNKNOWN,
47123 RODRIGUEZ, JORGE A
48408 OCCUPANT UNKNOWN,
48454 HELLWIG, AMANDA
48456 OCCUPANT UNKNOWN,
48464 DRAKE, FRANCIS W
48601 OCCUPANT UNKNOWN,
48810 RUBIO, RUBEN
48812 VILLEGAS, ALI
48814 MEZA, NIEVES
48816 POOL, GARY

Target Street	Cross Street	Source
✓	-	Cole Information

90TH ST E 2005

43803	EATON, DONALD L
43805	FURUBOTTEN, JON O
43807	HARVEY, JACK G
43841	BROWN, CHARLES R
43843	ASSET PROPERTIES
	MOORE, MATTHEW A
43845	READING, STEVEN K
43847	KING, MARJIE K
43907	VEINOT, LINDA C
43909	STRATMAN, ADAIRE J
43911	ANDREPONT, TODD V
	NUCKLES, DELORIS M
43927	OCCUPANT UNKNOWN,
44051	SHERMAN, WILLIE R
44127	RUSK, JOHN
44161	DELIA, JOSEPH E
44207	DELIA, MICHAEL A
44423	RIDING ON A WING & A PRAYER BAR & GR
44529	KIBBY, ROGER L
44611	FRANZ, WILLIAM
44612	GINN, RONALD W
44628	GIRDLESTONE, JOHN K
44636	OCCUPANT UNKNOWN,
44709	WARD, JOSEPH C
44733	HERZOG, DANIEL R
44808	TATONE, WILLIAM M
45521	ANDERSON, S
	DURAN, RUDY
	MONTERROSA, JESSICA
	OCCUPANT UNKNOWN,
	WILLIAMS, C
45763	WOOD, RICHARD A
47117	OCCUPANT UNKNOWN,
47123	RODRIGUEZ, JORGE A
47129	MORALES, JOSE
48408	OCCUPANT UNKNOWN,
48454	OCCUPANT UNKNOWN,
48456	HERNANDEZ, MARIA D
48464	DRAKE, FRANCIS W
48601	DEAN, DONALD L
48812	SKINNER, DON R
48814	LOPEZ, YUCAYDI

Target Street	Cross Street	Source
✓	-	Cole Information

90TH ST E 2000

43803 JOHNSON, JACKIE D
43805 VANPROVEN, SEAN D
43807 HARVEY, JACK G
43841 BROWN, LORENA F
43845 READING, STEVEN
43847 KING, ROBERT T
43907 OCCUPANT UNKNOWN,
43909 STRATMAN, RONALD
43911 ANDREPORT, T
BERGER, DAN
NUCKLES, DELORIS M
43927 OCCUPANT UNKNOWN,
44005 DELIA, JOE E
44051 OCCUPANT UNKNOWN,
44127 DELIA, JOSEPH
KNIGHT, PAULINE
44203 DAWSON, WILLIAM M
44207 OCCUPANT UNKNOWN,
44519 SOWERS, ARNOLD J
44529 OCCUPANT UNKNOWN,
44611 OCCUPANT UNKNOWN,
44612 GINN, RONALD W
44636 OCCUPANT UNKNOWN,
44709 WARD, JOSEPH C
44733 OCCUPANT UNKNOWN,
44808 OCCUPANT UNKNOWN,
45521 NEWBERN, VALERIE
45763 WOOD, RICHARD A
47117 BOWMAN, RYAN
47123 BOBADILLA, MIGUEL A
47129 MORALES, JOSE
48406 U-HAUL COMPANY INDEPENDENT DEALERS
48408 MATHEWS, DOUGLAS E
48454 LOPEZ, MARIA D
48456 OCCUPANT UNKNOWN,
48464 DRAKE, FRANCIS W
48810 OCCUPANT UNKNOWN,
48814 ATKINSON, MERSHON M
WINTERS, ROBERT

Target Street	Cross Street	Source
✓	-	Cole Information

90TH ST E 1995

43803	JOHNSON, HELEN
43805	JOHNSON, GLEN E
43807	HARVEY, JACK G
43841	BAKER CO
	SUMMIT, LESTER L
43843	ADAMS, MATT
43845	READING, STEVEN
43847	KING, ROBERT T
43907	OCCUPANT UNKNOWNN
43909	OCCUPANT UNKNOWNN
43911	NUCKLES, DELORIS M
43927	GLENDALE AUTO PARTS INC
44005	DELIA, JOE E
44051	DELIA, JOE
44127	DELIA, JOSEPH
	KNIGHT, CARL
44161	SHEPPARD, RUTH
44207	OCCUPANT UNKNOWNN
44434	DALES AUTO CLINIC
44440	D & R TIRES
	DALES AUTO CLINIC & SON
44519	SOWERS, ARNOLD J
44529	KIBBY, ROGER L
44538	LESTER, DREW
44611	FLASCH, LOUIS J
44612	GINN, RONALD W
44628	ZABORAC, TIM
44636	OCCUPANT UNKNOWNN
44650	HARRIS, DOROTHY
44709	AUSTIN, R O
44733	OCCUPANT UNKNOWNN
45521	KENN, PAUL
45763	WOOD, RICHARD A
46701	OCCUPANT UNKNOWNN
47117	HAROLD, PEARLIE M
47129	PATTERSON, JAMES M
48406	DESERT MARKET
	OLDTIMERS RETREAT
48408	DRAKE, FRED W
48456	OCCUPANT UNKNOWNN
48464	DRAKE, FRANCIS W
48810	MERCER, GEORGE
48812	MULLIGAN, TERRY
48814	PARR, E
	VIETHER, WILLIS
	WINTERS, ROBERT

Target Street	Cross Street	Source
✓	-	Cole Information

90TH ST E 1992

43803	JOHNSON, HELEN
43807	HARVEY, JACK G
43841	BAKER CO
	BAKER, JOHN
43843	PECA, WALTER
43847	KING, ROBERT T
43909	STRATMAN, RONALD F
43927	GLENDL ATO PRTS INC
44051	DELIA, JOE
44127	DELIA, JOSEPH
44434	DALES AUTO CLINIC
44440	D&R TIRES
	DALES AUTO CLNC&SON
44519	SOWERS, ARNOLD J
44529	KIBBY, ROGER L
44538	LESTER, DREW
44611	FLASCH, LOUIS J
	HEGEL, HARRY
44612	GINN, RONALD W
44709	AUSTIN, R O
45763	WOOD, RICHARD A
48406	DESERT MARKET
	OLDTIMERS RETREAT
48408	DRAKE, FRED W
48601	JOINER, DAVID
48814	WINTERS, ROBERT

Target Street	Cross Street	Source
✓	-	Haines Criss-Cross Directory

90TH ST E 1987

90TH E 93535 LANCASTER

43803	JOHNSON Helen	946-1964	0
43805	XXXX	00	
43807	HARVEY Jeck G	946-1212	
43841	BAKER John	946-2170	3
43843	PECA Welter	946-1960	
43845	HANNIG Loie	946-1746	0
	READING Stevan	946-1193	9
43847	KING Robert T	946-1909	
43907	XXXX	00	
43909	STRATMAN Ronald F	946-1240	
43911	NUCKLES D M	946-1417	
43927	★GLENDALE AUTO PARTS	946-1076	
44005	★MCKILBEC CATTLE	946-3395	+7
44127	DELIA Jos	946-1525	
44161	XXXX	00	
44203	XXXX	00	
44423	★OLDTIMERS RETREAT	946-2236	4
44434	★DALES AUTO CLINIC	946-1986	
44440	★DALES AUTO CLNC&SON	946-1226	0
44519	SCWERS Arnold J	946-1492	
44529	KIBBY Roger L	946-2766	5

Target Street	Cross Street	Source
✓	-	Haines Criss-Cross Directory

90TH ST E 1987

..90TH E 93535 CONT..

44611	XXXX	00	
44612	GINN Ronald W	946-2142	9
44650	XXXX	00	
44709	AUSTIN R O	946-1544	
44733	POTTER Gary	946-1801	+7
45763	WOOD Richard A	946-1161	
47109	XXXX	00	
47117	XXXX	00	
47123	HUERTA Andres	946-1767	8
47129	PATTERSON Jea M	946-2664	
46406	★DESERT MARKET	946-1098	
A	★TAMMIS OFFICE	946-1903	3
48408	DRAKE Fred W	946-2437	3
48456	XXXX	00	
48464	XXXX	00	
48601	JOINER Devid	946-1002	+7
48810	XXXX	00	
48812	BYINGTON Rex H	946-2403	4
	SCHMIDT Allen	946-2921	6
	SCHMIDT Yunhe	946-2921	
	WINTERS Robt	946-2265	
48814	DARBEE Clillord	946-1962	8

★ 7 BUS 36 RES 3 NEW

Target Street	Cross Street	Source
✓	-	Haines Criss-Cross Directory

90TH ST E 1982

90TH E 93535 LANCASTER

43803	JOHNSON HELEN	946-1964	0
43805	XXXX	00	
43807	HARVEY JACK G	946-1212	3
43841	XXXX	00	
43843	PECA WALTER	946-1960	
43845	HANNIG LOIS	946-1746	0
	READING STEVEN	946-1193	9
43847	KING ROBERT T	946-1909	6
43907	XXXX	00	
43909	STRATMAN RONALD F	946-1240	
43911	NUCKLES O M	946-1417	
43927	GLENDALE AUTO PRTS	946-1076	7
	NUCKLES BROS	946-1076	7
44127	OELIA JOS	946-1525	3
44161	BYRNES VALERIE	946-2363	1
44203	XXXX	00	
44423	OLDTIMERS RETREAT	946-1536	1
44434	DALES AUTO CLINIC	946-1986	
44440	DALES AUTO CLNC&SON	946-1228	0
44519	SOWERS ARNOLD J	946-1492	4
44529	KIBBY ROGER	946-2290	1
44611	XXXX	00	
44612	GINN RONALD W	946-2142	9
44650	GROSS A A	946-3122	+2
44709	AUSTIN R O	946-1544	
44733	XXXX	00	
45521	WARD ROBT	946-2767	1
45763	WOOD RICHARD A	946-1161	3
47109	XXXX	00	
47117	SPRINGMAN EDW R	946-1096	
47123	HUERTA ANDRES	946-1767	8
47129	PATTERSON JAS M	946-2664	6
48406	DESERT MARKET	946-1098	
48408	DRAKE FRED W	946-1747	
48456	GARRETT JAS L	946-3108	+2
48464	XXXX	00	
48810	TUCKER B G	946-2612	+2
48812	SCHMIDT ALLEN G	946-1722	+2
	WINTERS ROBT	946-2265	3
48814	DARBEE CLIFFORD	946-1962	8

* 6 BUS 34 RES 4 NEW

Target Street	Cross Street	Source
✓	-	Haines Criss-Cross Directory

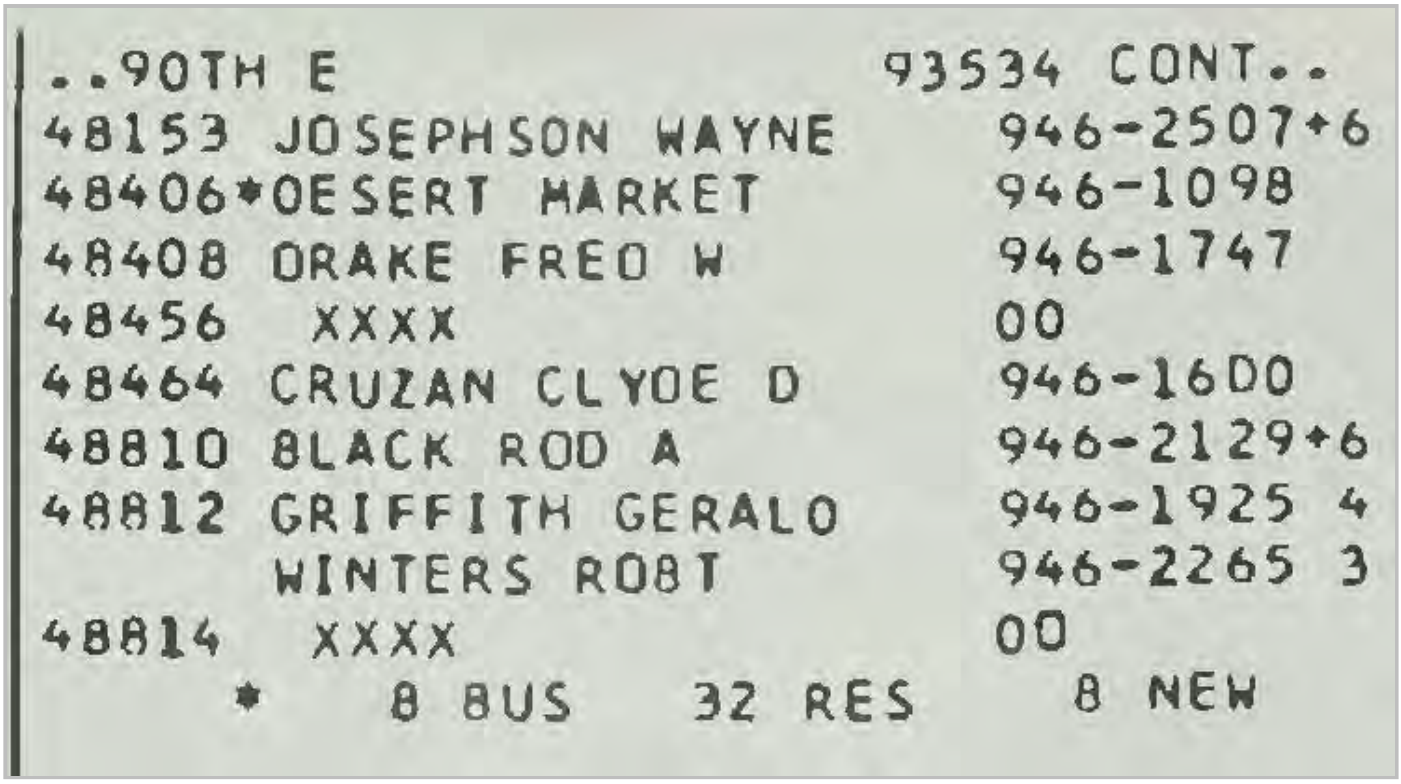
90TH ST E 1976

90TH E 93534 LANCASTER

43803	NUCKLES OTIS T	946-1579	4
43805	JOHNSON FAYE	946-2666	3
	JOHNSON GLEN E	946-2666	3
43807	HARVEY JACK G	946-1212	3
43841	*BAKERS WELOING	946-2170	+6
	*MCWILLIAMS SWP OST	946-2110	
43843	PECA WALTER	946-1960	
43845	PETERSON CORABELL	946-1193	4
43847	KING R T	946-1909	+6
43907	XXXX	00	
43909	STRATMAN RONALO F	946-1240	
43911	NUCKLES OELORIS M	946-1417	
43927	*GLENOALE AUTO PARTS	946-1916	4
	MACLAREN L S	946-2412	+6
	*NUCKLES BROS	946-1916	
44127	OELIA JOS	946-1525	3
44203	XXXX	00	
44423	*RETREAT THE	946-2540	5
44434	*OALES AUTO CLINIC	946-1986	
44519	SOWERS ARNOLO J	946-1492	4
44529	XXXX	00	
44611	CASIO B	946-1573	+6
44612	*KHAMEO ARABIAN FARM	946-1745	+6
44618	XXXX	00	
44709	AUSTIN R O	946-1544	
45521	GILBERT MARY	946-2548	4
45763	WOOO RICHARO A	946-1161	3
46403	XXXX	00	
47117	SPRINGMAN EOW R	946-1096	
47123	XXXX	00	
47129	PATTERSON JAS M	946-2664	+6

Target Street	Cross Street	Source
✓	-	Haines Criss-Cross Directory

90TH ST E 1976



..90TH E 93534 CONT..
48153 JOSEPHSON WAYNE 946-2507*6
48406*OESERT MARKET 946-1098
48408 ORAKE FREO W 946-1747
48456 XXXX 00
48464 CRUZAN CLYOE D 946-16DO
48810 8LACK ROD A 946-2129*6
48812 GRIFFITH GERALO 946-1925 4
WINTERS ROBT 946-2265 3
48814 XXXX 00
* 8 BUS 32 RES 8 NEW

Target Street	Cross Street	Source
✓	-	B & G City Directory

90TH ST E 1971

90TH. EAST (LAN) 93534

43841 NUCKLES KEN WH6-1667
43843 THOMPSON H WH6-1377
43845 PETERSON C WH6-1193
43847 SELONKE H WH6-1283
43907 ROGERS A G WH6-1874
43909 STRATMAN R WH6-1240
43911 NUCKLES D WH6-1417
43927 GLENDALE AUTO PARTS
WH6-1916
44127 DUCA VINCENT WH6-1525
44161 PARKER DAVID WH6-1724
44423 RAY'S RESTRNT WH2-9347
44434 DALES AUTO CLINIC
WH6-1986
44519 HIEBERT DON WH6-1789
44519 1/2 CHABOT JOHN WH6-2039
44529 HOWARD OTIS WH6-1470
44611 TENSFELD F WH6-1538
44709 AUSTIN R WH6-1544
44733 REHMANN J WH6-1645
45763 BURLEY A E WH6-1189
ROBERTS FRANK WH6-2016
46403 ROAT FRANK WH6-1617
47109 SERUNTINE CONSTANCE
47117 SPRINGMAN E WH6-1096
47123 GUTIERREZ E WH6-1170
47129 RIDGWAY F WH6-1584
48153 MC CASLIN E WH6-1709
48406 DESERT MKT WH6-1098
48408 DRAKE FRED WH6-1747
48456 PATTERSON J WH6-1503
48464 CRUZAN CLYDE WH6-1600

Appendix F

Client/User Provided Documentation

PHASE I ESA USER QUESTIONNAIRE

ASTM E-1527 provides Landowner Liability Protections to purchasers of commercial property if All Appropriate Inquiry (AAI) is completed during property acquisition. The answers to the questions below provide information to the Environmental Professional to assist the User of the referenced Phase I ESA to comply with the User Responsibilities of AAI.

Property Description			
Property Address:	N/A LA County APN 3376-006-012		
Current Occupant:	N/A		
Current Owner:	Maks Properties LLC	Phone:	N/A
Site Contact:	N/A	Phone:	N/A
Potable Water Provider:	Unknown		
Electricity Provider:	Southern California Edison		
Natural Gas Provider:	Unknown		
Sanitary Sewer Provider:	Unknown		
Solid Waste Disposal Provider:	Unknown		
Hazardous Waste Disposal:	Unknown		
Reason for Performing ESA	Due diligence in advance of acquisition		

Are you aware of any environmental liens that have been filed or recorded under Federal State, local or tribal law? If yes provide details.
□ Yes ☑ No

Are you aware of any activity or land use limitations (AULs), engineering controls or land use limitations that have been filed or recorded under Federal, State, Local or Tribal Law? If yes, provide details.
□ Yes ☑ No

Do you have any specialized knowledge of the property or experience related to the Subject Property or nearby properties so that you would have knowledge of chemicals or processes used at the property? If yes, provide details.
□ Yes ☑ No

Is the acquisition price differing from the fair market value of the property?
□ Yes ☑ No
If there is a difference, have you considered a lower price is due to contamination known or believed to be present at the property? Please provide details.
□ Yes ☑ No

Phase I ESA User Questionnaire - Continued

As the user of this ESA, based on your knowledge and experience with the property, are there any obvious indications of the presence or likely presence of contamination at the property? If yes, provide details.
□ Yes ☑ No

Are you aware of any information that would help the environmental professional identify conditions indicative of releases or potential releases, including past uses of the property, uses of chemicals at the property, or environmental cleanups that have taken place at the property? If yes, provide details.
□ Yes ☑ No

Do you know of any pending, past or threatened litigation or administrative proceedings related to hazardous substances or petroleum products on, in or from the property or any notices regarding possible violations of environmental laws or possible liability related to hazardous substances or petroleum products? If yes, provide details.
□ Yes ☑ No

Are there any chemical storage areas or hazardous material storage areas located at the Subject Property?
If yes, provide details.
□ Yes ☑ No

Are there any current or historical Aboveground Storage Tanks or Underground Storage Tanks? If yes, provide details.
□ Yes ☑ No

Are there any current or historical wastewater treatment systems, clarifier/interceptor systems, or grease trap systems associated with the Subject Property? If yes, provide details.
□ Yes ☑ No

Phase I ESA User Questionnaire - Continued

Are you aware of the existence or location of the following documents related to the Subject Property, and if yes, can copies be made available for review by the Environmental Professional?

□ Previous Environmental Site Assessment reports or Investigation reports
□ Environmental Permits
□ Registrations for underground storage tanks (USTs)
□ Spill Prevention Containment and Contingency Plans (SPCC)
□ Stormwater Pollution Prevention Plans (SWPPP)
□ Risk Assessments
□ Hydrogeologic Reports related to the property or surrounding area
□ Notices of Violation from governmental agencies regarding past or current violations of environmental laws or related to environmental liens encumbering the property
□ Hazardous waste manifests or generation reports
□ Recorded land and activity use limitations
□ Geotechnical Studies

User response: Not aware of any of the items above

Max Margolin	**Pronghorn Solar Plus LLC**
(Name- Authorized User Representative)	(Company/Title)
Max Margolin	**6/25/25**
(Signature)	(Date)

PHASE I ESA USER QUESTIONNAIRE

ASTM E-1527 provides Landowner Liability Protections to purchasers of commercial property if All Appropriate Inquiry (AAI) is completed during property acquisition. The answers to the questions below provide information to the Environmental Professional to assist the User of the referenced Phase I ESA to comply with the User Responsibilities of AAI.

Property Description			
Property Address:	N/A LA County APN 3376-011-035		
Current Occupant:	N/A		
Current Owner:	Toni Roma Investments LLC	Phone:	N/A
Site Contact:	Tony Aroutiounian	Phone:	818-522-8211
Potable Water Provider:	Unknown		
Electricity Provider:	Southern California Edison		
Natural Gas Provider:	Unknown		
Sanitary Sewer Provider:	Unknown		
Solid Waste Disposal Provider:	Unknown		
Hazardous Waste Disposal:	Unknown		
Reason for Performing ESA	Due diligence in advance of acquisition		

Are you aware of any environmental liens that have been filed or recorded under Federal State, local or tribal law? If yes provide details.
□ Yes ☑ No

Are you aware of any activity or land use limitations (AULs), engineering controls or land use limitations that have been filed or recorded under Federal, State, Local or Tribal Law? If yes, provide details.
□ Yes ☑ No

Do you have any specialized knowledge of the property or experience related to the Subject Property or nearby properties so that you would have knowledge of chemicals or processes used at the property? If yes, provide details.
□ Yes ☑ No

Is the acquisition price differing from the fair market value of the property?
□ Yes ☑ No
If there is a difference, have you considered a lower price is due to contamination known or believed to be present at the property? Please provide details.
□ Yes ☑ No

Phase I ESA User Questionnaire - Continued

As the user of this ESA, based on your knowledge and experience with the property, are there any obvious indications of the presence or likely presence of contamination at the property? If yes, provide details.
□ Yes ☑ No

Are you aware of any information that would help the environmental professional identify conditions indicative of releases or potential releases, including past uses of the property, uses of chemicals at the property, or environmental cleanups that have taken place at the property? If yes, provide details.
□ Yes ☑ No

Do you know of any pending, past or threatened litigation or administrative proceedings related to hazardous substances or petroleum products on, in or from the property or any notices regarding possible violations of environmental laws or possible liability related to hazardous substances or petroleum products? If yes, provide details.
□ Yes ☑ No

Are there any chemical storage areas or hazardous material storage areas located at the Subject Property?
If yes, provide details.
□ Yes ☑ No

Are there any current or historical Aboveground Storage Tanks or Underground Storage Tanks? If yes, provide details.
☑ Yes ✓

Yes, as made aware by NV5. No additional details available from me.

Are there any current or historical wastewater treatment systems, clarifier/interceptor systems, or grease trap systems associated with the Subject Property? If yes, provide details.
□ Yes ☑ No

Phase I ESA User Questionnaire - Continued

Are you aware of the existence or location of the following documents related to the Subject Property, and if yes, can copies be made available for review by the Environmental Professional?

□ Previous Environmental Site Assessment reports or Investigation reports
□ Environmental Permits
□ Registrations for underground storage tanks (USTs)
□ Spill Prevention Containment and Contingency Plans (SPCC)
□ Stormwater Pollution Prevention Plans (SWPPP)
□ Risk Assessments
□ Hydrogeologic Reports related to the property or surrounding area
□ Notices of Violation from governmental agencies regarding past or current violations of environmental laws or related to environmental liens encumbering the property
□ Hazardous waste manifests or generation reports
□ Recorded land and activity use limitations
□ Geotechnical Studies

User response: Not aware of any of the items above

Max Margolin	**Pronghorn Solar Plus LLC**
(Name- Authorized User Representative)	(Company/Title)
Max Margolin	**6/25/25**
(Signature)	(Date)

Eric Fraske

From: Max Margolin <Max@Upstream.energy>
Sent: Thursday, July 10, 2025 12:39 PM
To: Eric Fraske
Subject: Re: Property Owner Questions

Follow Up Flag: FollowUp
Flag Status: Flagged

Hi Eric – landowner's response is as follows:

"The well tank is off the property. It's a huge tank in the back of the property. That's all I know. That huge tank is for the small community there I believe."

Thank you,
Max

Max Margolin
Director, Development | Upstream
7650 Girard Avenue, Suite 300
La Jolla, CA 92037
239.728.8476

[redacted]

From: Max Margolin <Max@Upstream.energy>
Sent: Wednesday, July 9, 2025 3:41 PM
To: Eric Fraske <eric.fraske@nv5.com>
Subject: Re: Property Owner Questions

Hi Eric – here are the landowner's written responses:

“Hey Max, Here are the responses to the questions,

1. *Property Has been owned since 2021*
2. *During the ownership, property has been leased out to two tenants for majority of ownership.*
3. *No, there are no chemicals that have been used or stored at the site.*
4. *There are no storage tanks. Property's water is on a well system. There were 2 lifts I believe used to lift up a car in the higher ceiling garage. There are no in-ground clarifiers.*
5. *Local electricity is provided by SCE, water is provided by Aqua J Mutual Co.*
6. *There is no contamination, past spills, leaks or releases of hazardous materials or petroleum.*
7. *The two mixing tanks and tubs were used for mixing nutrients in water. After consulting with some experts, it was determined that the nutrients used were not any harsh chemicals. The types of chemicals were nutrients for plants. Nothing hazardous of any kind.”*

Thanks,
Max

From: Eric Fraske <eric.fraske@nv5.com>
Date: Tuesday, July 8, 2025 at 7:07 PM
To: Max Margolin <Max@Upstream.energy>
Subject: RE: Property Owner Questions

[redacted]

Eric Fraske | Senior Engineer III | **NV5** | Site Assessment and Remediation
370 Amapola Avenue, Suite 212 | Torrance, CA 90501| C: 562.544.3910
eric.fraske@nv5.com| www.nv5.com | Electronic Communications Disclaimer

I am working remotely and can be reached via cell at 562.544.3910.

[redacted]

Max

Max Margolin
Director, Development | Upstream
7650 Girard Avenue, Suite 300
La Jolla, CA 92037
239.728.8476

From: Eric Fraske <eric.fraske@nv5.com>
Date: Wednesday, July 2, 2025 at 7:44 PM
To: Max Margolin <Max@Upstream.energy>
Subject: RE: Property Owner Questions

Thanks, I'll look out for emails from him.

Any additional information on the well system would also be very helpful.

Thanks,

Eric Fraske | Senior Engineer III | **NV5** | Site Assessment and Remediation
370 Amapola Avenue, Suite 212 | Torrance, CA 90501| C: 562.544.3910
eric.fraske@nv5.com| www.nv5.com | Electronic Communications Disclaimer

I am working remotely and can be reached via cell at 562.544.3910.

From: Max Margolin <Max@Upstream.energy>
Sent: Wednesday, July 2, 2025 3:48 PM
To: Eric Fraske <eric.fraske@nv5.com>
Subject: Re: Property Owner Questions

Hi Eric – I just spoke with the landowner who provided the answers in red below. I believe he'll be sending over some responses himself as well.

Thanks,
Max

From: Max Margolin <Max@Upstream.energy>
Date: Wednesday, July 2, 2025 at 9:12 AM
To: Tones Management <contact@tonesmanagement.com>
Subject: FW: Property Owner Questions

Hi Tony – do you mind providing responses to the questions below?

Thank you,
Max
239-728-8476

From: Eric Fraske <eric.fraske@nv5.com>
Date: Tuesday, July 1, 2025 at 2:40 PM
To: Max Margolin <Max@Upstream.energy>
Subject: Property Owner Questions

Hi Max,

Can you please pass this email along to the property owner for them to answer the questions below?

1. How long have the current owners owned the property? 2021
2. During their ownership, what has the property been used for? Marijuana was grown in the property.
3. Are any chemicals used or stored at the Site? No chemicals.
4. Are there any underground storage tanks, well, in-ground hydraulic lifts, or in-ground clarifiers located at the Site?
    - No underground storage tanks.
    - There is a well system.
    - Aqua mutual is the water system in the area.
    - One in-ground hydraulic lift.
    - No in-ground clarifiers

5. Who are the local electrical, sewer, gas, and water utility providers for the Site?
6. Is the property owner aware of any contamination, past spills, leaks, or releases of hazardous materials and or petroleum products at the Site? Not aware of any contamination. No past spills, roof had a water leak, no release of hazmat, no petroleum products at the site to owners knowledge.
7. During the Site walk, our assessor observed two mixing tanks/tubs in the site building (see photo below). What were they used for? What types of chemicals (if any) were mixed in them. Marijuana was grown in the property. Assuming the tanks were used for nutrients



Thank you,

Eric Fraske | Senior Engineer III | **NV5** | Site Assessment and Remediation
370 Amapola Avenue, Suite 212 | Torrance, CA 90501| C: 562.544.3910
eric.fraske@nv5.com| www.nv5.com | Electronic Communications Disclaimer

Appendix G

References

REFERENCES

American Society for Testing and Materials, Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process, ASTM Designation: E 1527-21

American Society for Testing and Materials, Standard Guide for Vapor Encroachment Screening on Property Involved in Real Estate Transactions, ASTM Designation: E 2600-22

Environmental Data Resources, Inc., Milford, Connecticut, The EDR Aerial Photo Decade Package, Inquiry No. 8020014.24, June 2025.

Environmental Data Resources, Inc., Milford, Connecticut, Certified Sanborn Map Report, Inquiry No. 8020014.3, June 2025.

Environmental Data Resources, Inc., Milford, Connecticut, The EDR Historical Topographic Map Report, Inquiry No. 8020014.4, June 2025.

Environmental Data Resources, Inc., Milford, Connecticut, The EDR Radius Map Report with Geocheck , Inquiry No. 8020014.2s, June 2025.

Environmental Data Resources, Inc., Milford, Connecticut, The EDR City Directory Image Report, Inquiry No. 8020014.5, June 2025.

Environmental Data Resources, Inc. Milford, Connecticut. The EDR Environmental Lien and AUL Search 1980, Inquiry No. 8020014.8s, June 2025.

Appendix F2
Phase I ESA (2024)

DRAFT

PHASE I ENVIRONMENTAL SITE ASSESSMENT REPORT

Agricultural Field
Lancaster Parcel 3378-003-001
Lancaster, California 93535

PREPARED FOR:

Upstream Renewable Dev I LLC
7650 Girard Ave Suite 300
La Jolla, California 92037

Project Number: UPRD-24-12039

Date: April 12, 2024

NV5
3777 Long Beach Boulevard Annex Building
Long Beach CA 90807 United States of America
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Toll-free (US only) 800 777-0605 www.NV5.com

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EXECUTIVE SUMMARY

NV5, Inc. (NV5) has completed a Phase I Environmental Site Assessment (ESA) of the agricultural field identified by Los Angeles County Assessor's Parcel Number (APN) 3378-003-001 located in the City of Lancaster, Los Angeles County, California (Site). The ESA was performed in conformance with the scope and limitations of ASTM Standard E1527-21. Any exceptions to, or deletions from, this practice are described in Section 1.0 of this report. The assessment was performed to identify conditions indicative of releases and threatened releases of hazardous substances and petroleum products on, at, in, or adjacent to the Site. If identified, these issues are considered recognized environmental conditions (RECs).

Site and Vicinity Description

The Site is located on the southeastern corner of the intersection of 90th Street East and East Avenue K in the City of Lancaster, Los Angeles County, California. The Site is approximately 156.38 acres in size and consists of a single parcel of land identified by Los Angeles County Tax Assessor Parcel Numbers (APN): 3378-003-001. This site is located in an area predominantly developed for agricultural use.

Site Use and History

The Site is currently cultivated for agricultural use. The Site was previously undeveloped prior to 1940, when it was first cultivated. Two small farm structures were previously located on the central portion of the Site but were removed between 1977 and 1981.

Data Gaps

The ASTM Standard defines a data gap as "a lack of or inability to obtain information required by the practice despite good faith efforts by the Environmental Professional to gather such information." A data gap is only significant if other information obtained during the ESA, or professional experience, raises reasonable concerns and affects the ability of the Environmental Professional to identify whether a given issue is a REC. The ASTM Standard requires that the ESA report identify and comment on significant data gaps. No data gaps were identified by NV5 during this assessment.

Conclusions

RECs

No evidence of a REC, Controlled REC (CREC) or Historic REC (HREC) in connection with the Site was identified during this assessment.

Vapor Encroachment Conditions (VEC)

A Tier 1 vapor encroachment screen (VES) for potential chemicals of concern (COC) was completed for the Site. The assessment was based on the ASTM published Standard Guide E 2600-22. The purpose of the VES was to evaluate the potential for a vapor encroachment condition (VEC) which is the presence or likely presence of COC vapors in subsurface soils at the Site caused by the release of vapors from contaminated soil or groundwater on or near the Site. No potential concerns were identified within the VES search radii.

Environmental Conditions of Note

The Site has been historically used for long-term agricultural use. Although no information or observations indicating the misuse or misapplication of pesticides, herbicides, or fertilizers was obtained during the Site reconnaissance, in certain instances, the chemicals historically applied to the Site, or their breakdown products, could be persistent and not biodegrade. As with any agriculturally developed land, there exists

the possibility that pesticides, herbicides, or fertilizers have been applied that may still be present at residual concentrations.

Recommendations

Based on the findings of this assessment, a limited Phase II ESA consisting of shallow soil sampling is recommended to assess if agricultural use (pesticide application and mixing) have negatively impacted the Site.

Additionally, if the Site is redeveloped and the use of the irrigation water well discontinued, the onsite wells should be property abandoned in accordance with all applicable regulatory requirements.

1 INTRODUCTION

NV5, Inc. (NV5) completed a Phase I Environmental Site Assessment (ESA) of the agricultural field identified by Los Angeles County Assessor's Parcel Number (APN) 3378-003-001 located in the City of Lancaster, Los Angeles County, California (Site). The purpose of this assessment was to evaluate the environmental condition of the Site and to satisfy one of the requirements for qualification under the innocent landowner, contiguous property owner, or bona fide prospective purchaser defenses under the federal Comprehensive Environmental Response, Compensation and Liability Act (CERCLA). ASTM Standard Practice E1527-21, and the United States Environmental Protection Agency (EPA) Standards and Practices for All Appropriate Inquiries (40 CFR Part 312) constitute the "all appropriate inquiry into the previous ownership and uses of the property consistent with good commercial or customary practice" as defined in:

1. 42 U.S.C § 9601(35)(B), referenced in the ASTM Standard Practice E1527-21;
2. Sections 101(35)(B) (ii) and (iii) of CERCLA and referenced in the EPA Standards and Practices for All Appropriate Inquiries (40 CFR Part 312); and
3. 42 U.S.C. 9601(40) and 42 U.S.C. 9607(q).

This report was prepared exclusively for use by Upstream Renewable Dev I LLC (Client). This report may not be relied upon by any other person or entity without NV5's express written permission. The information, conclusions and recommendations described in this report apply to conditions existing at certain locations at the time when services were performed and are intended only for the specific purposes, locations, time frames and project parameters indicated. NV5 cannot be responsible for the impact of any changes in environmental standards, practices, or regulations after performance of services.

1.1 Objectives

NV5's objective for this environmental assessment was to identify conditions indicative of releases and threatened releases of hazardous substances and petroleum products on, at, in, or to the Site. The assessment was conducted to meet the standards of ASTM Standard Practice E1527-21.

The conclusions and recommendations provided herein are based on the following:

1. Current and past Site uses and occupancies;
2. Current and past uses of hazardous substances;
3. Waste management and disposal activities that could have caused releases or threatened releases of hazardous substances;
4. Current and past corrective actions and response activities undertaken to address past and on-going releases of hazardous substances;
5. Engineering controls;
6. Institutional controls; and
7. Evaluation of properties adjoining or located nearby the Site that have environmental conditions that could have resulted in conditions indicative of releases or threatened releases of hazardous substances to the Site.

1.2 Services

NV5 performed the following services to assess the Site:

1. Reviewed historical sources of information;
2. Searched for recorded environmental clean-up liens;
3. Reviewed Federal, State, Tribal, and local government records;
4. Visually inspected the Site and the adjoining properties;

5. Evaluated any specialized knowledge or experience on the part of the purchaser; and
6. Determined commonly known or reasonably ascertainable information about the Site.

1.3 Assumptions

NV5 has assumed the following for the purposes of this assessment:

1. Information provided during any interview (written or oral) was accurate and correct;
2. Database information reviewed was accurate and correct;
3. Historical information reviewed was accurate and correct;
4. Information reviewed at any governmental agency was accurate and correct;
5. Groundwater flow and depth to groundwater, unless otherwise specified by on-site well data or well data from adjacent sites, are assumed based on contours depicted on the United States Geological Survey (USGS) Topographic Maps; and
6. The Site has been correctly and accurately identified by the Client, Client representatives, Site contact, Site owner, and/or Site representatives.

1.4 Limitations

This assessment is limited to the standards set forth in ASTM Standard Practice E1527-21. This report specifically excludes assessment of the following:

1. Asbestos and asbestos-containing building materials;
2. Biological agents;
3. Cultural and historic resources;
4. Ecological resources;
5. Endangered species;
6. Health and safety;
7. Indoor air quality unrelated to releases of hazardous substances or petroleum products into the environment;
8. Industrial hygiene;
9. Lead-Based Paint;
10. Lead in Drinking Water;
11. Mold;
12. Radon;
13. Regulatory compliance; and
14. Wetlands.

Please note that considerations identified by ASTM as beyond the scope of a Phase I ESA may still affect business environmental risk at a given property. These environmental issues or conditions may warrant assessment based on the type of property transaction; however, they are considered non-scope issues under ASTM Standard Practice E1527-21 and not included in this assessment.

The conclusions and findings set forth in this report are strictly limited in time and scope to the date of the evaluation. The conclusions presented in this report are based solely on the services described herein, and not on scientific tasks or procedures beyond the scope of agreed-upon services or the time and budgeting restraints imposed by the Client. No subsurface exploratory drilling or sampling of any kind was conducted under the scope of this work. Unless specifically stated otherwise in the report, no chemical or physical analyses have been performed during the performance of this Phase I ESA.

Some of the information provided in this report is based upon personal interviews, and research of available documents, records, and maps held by the appropriate government and private agencies. This information is subject to the limitations of historical documentation, availability, and accuracy of pertinent records and the personal recollections of those persons contacted. As applicable, NV5 has relied in good faith upon representations and information furnished by individuals with respect to operations and existing

property conditions, to the extent that they have not been contradicted by data obtained from other sources. Accordingly, NV5 accepts no responsibility for any deficiencies, omissions, misrepresentations, or fraudulent acts of persons interviewed.

Property conditions, as well as local, state, tribal, and federal regulations can change significantly over time. Therefore, the recommendations and conclusions presented in this study apply strictly to the environmental regulations and property conditions existing at the time the study was performed. Available information has been analyzed using currently accepted assessment techniques and it is believed that the inferences made are reasonably representative of the Site. NV5 makes no warranty, express or implied, except that the services have been performed in accordance with generally accepted environmental property assessment practices applicable at the time and location of the study.

This Phase I ESA is not, and should not be construed as, a warranty or guarantee about the presence or absence of hazardous substances or petroleum products that may affect the Site. The assessment is not intended to assure clear title to the Site in question. The sole purpose of investigation into Site title records is to ascertain a historical basis of prior land use and environmental liens. All findings, conclusions, and recommendations stated in this report are based upon facts, circumstances, and industry-accepted procedures for such services as they existed at the time this report was prepared (i.e., federal, state, and local laws, rules, regulations, market conditions, economic conditions, political climate, and other applicable matters). All findings, conclusions, and recommendations stated in this report are based on the data and information provided, and observations and conditions that existed on the date and time of the Site visit. Responses received from local, state, or federal agencies or other secondary sources of information after the issuance of this report may change certain facts, findings, conclusions, or circumstances to the report. A change in any fact, circumstance, or industry-accepted procedure upon which this report was based may adversely affect the findings, conclusions, and recommendations expressed in this report.

1.5 Terms

The following terms are used in this report:

- “Site” refers to the property within the approximate boundaries described in Section 2;
- “Adjoining property” refers to properties adjacent to the Site that share a common boundary with the Site; and
- “Site vicinity” refers to the area within an approximate 1-mile radius of the Site.
- “Recognized Environmental Conditions” (RECs) – The presence or likely presence of any *hazardous substances* or *petroleum products in, on, at or to the* Site: (*1*) due to release to the environment; (*2*) under conditions indicative of a *release* to the *environment*; or (*3*) under conditions that pose a *material threat* of a future *release* to the *environment*. *De minimis conditions* are not *recognized environmental conditions*.
- “Controlled Recognized Environmental Condition” (CREC) – A recognized environmental condition resulting from a past *release* of *hazardous substances* or *petroleum products* that has been addressed to the satisfaction of the applicable regulatory authority (for example, as evidenced by the issuance of a no further action letter or equivalent, or meeting risk-based criteria established by regulatory authority), with *hazardous substances* or *petroleum products* allowed to remain in place subject to the implementation of required controls (for example, *property use restrictions*, *activity and use limitations*, *institutional controls*, or *engineering controls*). A condition identified as a *controlled recognized environmental condition* does not imply that the *Environmental Professional* has evaluated or confirmed the adequacy, implementation, or continued effectiveness of the required control that has been, or is intended to be, implemented.
- “Historical Recognized Environmental Condition” (HREC) – A past *release* of any *hazardous substances* or *petroleum products* that has occurred in connection with the Site and has been addressed to the satisfaction of the applicable regulatory authority or meeting unrestricted use

criteria established by a regulatory authority, without subjecting the Site to any required controls (for example, Site use restrictions, *activity and use limitations*, *institutional controls*, or *engineering controls*).

- "Migrate/migration" – For the purposes of this practice, "migrate" and "migration" refer to the movement of *hazardous substances* or *petroleum products* in any form, including, for example, solid and liquid at the surface or subsurface, and vapor in the subsurface.
- "Hazardous Substances" – The term "hazardous substance" is used here in general accordance with its use as defined in the following regulations:

  -- Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) of 1980, as amended; and

  -- Superfund Amendment and Reauthorization Act (SARA) of 1986, as amended.

- The words "impact" or "impacted" are used to mean the effect or result of a release of a hazardous substance or petroleum product at the Site. Search distances for government agency lists were those designated by the ASTM Standard E 1527-13 and ASTM E 1527-21.

1.6 Environmental Professional

This document has been prepared by an Environmental Professional as defined by the EPA, 40 CFR Part 312.10. All work performed for this assessment was performed by or under the direct supervision of an Environmental Professional.

2 SITE DESCRIPTION

Mr. Noah Stevens, of NV5, conducted a Site reconnaissance on February 19, 2024. The descriptions provided herein are based on information provided by the current Site representatives and on observations made during that visit. Site Vicinity and Site Layout maps depicting the areas and features described in the following sections are provided in Figures 1 and 2. Representative Site photographs are included in Appendix A.

2.1 Site Location and Use

2.1.1 Location and Description

The Site is located on the southeastern corner of the intersection of 90th Street East and East Avenue K in the City of Lancaster, Los Angeles County, California. The Site is approximately 156.38 acres in size and consists of a single parcel of land identified by Los Angeles County Tax Assessor Parcel Numbers (APN): 3378-003-001.

2.1.2 Development and Current Use

The Site is currently cultivated for agricultural use. Site improvements consist of irrigation pump stations and associated electrical equipment.

2.2 Utility Service Providers

The only active utility service at the Site is electricity provided by Southern California Edison. Water for irrigation is provided by onsite wells. Natural gas and sewer service was not reported or observed to be provided to the Site.

2.2.1 Irrigation Water Wells

Irrigation water is supplied to the site via a network of irrigation piping connected to two onsite wells and multiple offsite water wells. A map of existing irrigation wells and irrigation piping is provided as Figure 3.

2.3 Chemical and Petroleum Storage Areas

No evidence of petroleum storge areas at the Site was observed or reported during the Site reconnaissance. Chemical usage at the Site is limited to sulfuric acid (used to adjust irrigation water for water hardness) and agricultural pesticides that are brought in by truck and mixed on-site adjacent to irrigation mainlines.

2.4 Storage Tanks

2.4.1 Aboveground Storage Tanks (ASTs)

Polyethylene ASTs used for the storage of sulfuric acid, used in irrigation, are present on the western and eastern portions of the Site, adjacent to irrigation mainlines. No evidence of releases or leaks from the ASTs were observed or reported during the Site reconnaissance. Their presence is not considered to represent and REC.

2.4.2 Underground Storage Tanks (USTs)

No evidence of USTs at the Site was observed or reported during the Site reconnaissance.

2.4.3 Septic Tanks

No septic tanks were observed or reported to be present at the Site during the Site reconnaissance.

2.5 Polychlorinated Biphenyls (PCBs)

Several pad-mounted transformers were on the Site and adjoining properties adjacent to irrigation equipment. No evidence of leaks or releases from the transformers was observed. The presence of the transformers is not considered to represent a REC.

2.6 Floor Drains, Sumps, and Clarifiers

No evidence of floor drains, sumps, or clarifiers at the Site was observed or reported to be present at the Site.

2.7 Back-up Power Generation

No back-up power generation systems were observed or reported to be present at the Site.

2.8 Cooling Towers

No cooling towers were observed on the Site.

2.9 Elevators, Lifts and Compactors

No elevators, lifts, compactors were observed or reported to be present at the Site.

2.10 Odors

No strong, pungent, or noxious odors indicative of a past release of hazardous substances or petroleum products were identified during the course of this assessment.

2.11 Pools of Liquid

No standing surface water or other pits, ponds, or lagoons potentially containing hazardous substances or petroleum products were identified within the Site.

2.12 Surface Staining

No surface staining indicative of a past release of hazardous substances or petroleum products were identified during the course of this assessment.

2.13 Stressed Vegetation

No significantly stressed vegetation or other indications of potential release of hazardous substances or petroleum products were observed during the Site reconnaissance.

2.14 Solid Waste

No evidence of solid waste dumping or releases was observed during the Site reconnaissance.

2.15 Adjacent Properties

The Site is located in an area primarily developed for agricultural use. The following table summarizes land use observed in the near vicinity of the Site:

Direction	Property Tenant Name	Address	Business Operation
North	Farmland	No Address Assigned	Cultivated Farmland
East	Vacant Land	No Address Assigned	Undeveloped Land
West	Farmland	No Address Assigned	Cultivated Farmland
South	Vacant Land	No Address Assigned	Undeveloped Land

3 SITE SETTING

3.1 Topography

The 2021 United States Geological Survey (USGS), “Alpine Butte, CA” 7.5 Minute Topographic Quadrangle map of the Site and surrounding vicinity was reviewed. The elevation of the Site is approximately 2,487 feet above mean sea level (msl). The Site and surrounding topography slope towards the northwest. A copy of the USGS 7.5 Minute Topographic Map is included in Appendix B.

3.2 Regional Geology and Hydrology

The following description of regional geology and hydrology was developed based on regional information presented in the site-specific Environmental Data Resources (EDR) Radius Map Report (“EDR Report”) (2024).

According to United States Department of Agriculture (USDA) soil data published in the EDR Report, soils underlying the Site are classified as *Hesperia* loamy fine sand. Soils of this type have moderate infiltration rates and consist of deep and moderately deep, well-drained soils with moderately coarse textures.

According to groundwater information published on the State Water Resources Control Board *Geotracker* website for a facility located at 8841 E Avenue J (located approximately one mile northwest of the Site),

the shallowest groundwater in the vicinity of the Site is expected to be present at a depths of greater than 100 feet below ground surface and is assumed to flow following local topography towards the northwest.

3.3 Flood Plain

According to Federal Emergency Management Agency flood plain data presented in the EDR Report, the Site is not located within the boundaries of a 100-year or 500-year flood zone (EDR, 2024). The EDR Report is presented as Appendix B.

3.4 Wetlands

According to map data published on the United States Department of Fish and Wildlife (USFW) National Wetlands Inventory, no wetlands are mapped on the Site. A screenshot is provided in Appendix C.

3.5 Water Bodies

No water bodies were observed on or adjacent to the Site during the Site reconnaissance.

3.6 Oil and Gas Wells

According to the State of California Geologic Energy Management Division (CalGem) online Well Finder application, no oil/gas are located on or adjacent to the Site. A screenshot is provided in Appendix C.

4 CLIENT/USER-PROVIDED INFORMATION

NV5 considers the Client to be the 'User' of our assessment, defined in ASTM Practice E1527-21 as "the party seeking to use Practice E1527 to complete an environmental site assessment of the subject property". A User may include, without limitation, a potential purchaser of property, a potential tenant of property, an owner of property, a lender, or a property manager. The User has specific obligations for completing a successful application of this practice.

The EPA All Appropriate Inquiry Rule (40 CFR Part 312) and ASTM E1527-21 § 6 require the User to answer certain questions related to the Site in order to obtain certain LLPs from CERCLA liability. To facilitate this process, NV5 provided the client with a User Questionnaire, which is presented in Appendix F. A summary of the required questions and client responses is provided below.

4.1 Title Records

Title records were not provided to NV5 by the Client/User for review. However, the EDR Lien and AUL Search report included a search and review of records for property transfers since January 1, 1980. According to this report, the current owner of the Site is Bolthouse Land Company, LLC.

The EDR Lien and AUL report is presented in Appendix D.

4.2 Clean-Up Liens

No knowledge of any clean-up liens against the Site was reported by the Client/User. Furthermore, the EDR Environmental Lien and AUL Search report did not identify any environmental liens for the Site (Appendix D).

4.3 Activities and Use Limitations

No knowledge of any activities and use limitations against the Site were reported by the Client/User. Furthermore, the EDR Environmental Lien and AUL Search report did not identify any activities and use limitations for the Site (Appendix D).

4.4 Specialized Knowledge

No specialized knowledge identifying evidence of a REC was disclosed by the Client/User during this assessment.

4.5 Commonly Known Information

No commonly known information identifying evidence of a REC was disclosed by the Client/User during this assessment.

5 RECORDS REVIEW

5.1 Governmental Databases

NV5 contracted EDR to perform a radius search of governmental databases for this project. The distribution of listed sites with respect to the Site is tabulated and mapped in the EDR Report, which can be found in Appendix B. The reader is referred to the table, which can be found near the front of the EDR Report.

NV5 conducted a review of the above-referenced database reports and provides the following findings based on sites that have the potential to impact the Site, with respect to the inferred northwesterly groundwater flow direction. Our findings are based on the assumption that a hazardous material released to the subsurface generally does not migrate laterally within unsaturated soil for a significant distance. Although a hazardous substance or petroleum product can migrate in groundwater in a generally down-gradient direction, there are limitations to this interpretation such as groundwater depth, soil lithology and other subsurface barriers.

5.1.1 Site Database Findings

The Site address was not identified in the EDR Report.

5.1.2 Adjoining Property Database Findings

None of the adjoining property addresses were identified in EDR's report.

5.1.3 General Vicinity Database Findings

EDR's report identified no off-Site facilities within applicable ASTM search radii.

5.2 Regional Agency Offices

NV5 submitted information requests to the various county and regional agencies that may have records with regard to environmentally oriented concerns affecting the Site, in accordance with ASTM E1527-21 requirements. Should significant records be identified at a later date, an addendum to this report will be issued. Documentation obtained from regulatory agency requests is presented in Appendix C.

Agency	Records Summary
Los Angeles County Fire Department	No records for the Site were identified by this agency, as no address has been assigned to the Site.
Los Angeles County Public Works	No records for the Site were identified by this agency, as no address has been assigned to the Site.

Agency	Records Summary
City of Lancaster	No building permit records for the Site's APN were identified during a search of the City of Lancaster online permit record system.

5.3 Historical Records

NV5 used USGS topographic (Topo) maps, aerial photographs, fire insurance maps, and historical street directories to provide information about the history of the Site and its surroundings. The resources NV5 reviewed are tabulated as follows and presented in Appendix E.

Historical Resources		
Source Type	**Years Reviewed**	**Source**
USGS Topo Maps	1930, 1933, 1945, 1957, 1974, 1989, 1992, 2012, 2015, 2018, and 2021	USGS/EDR
Aerial Photograph(s)	1928, 1940, 1948, 1953, 1968, 1970, 1977, 1981, 1983, 1994, 2003, 2005, 2009, 2012, 2016, and 2020	EDR
Fire Insurance (Sanborn) Maps	No Coverage Letter	EDR
Street Directories	1971, 1976, 1982, 1987, 1992, 1995, 2000, 2005, 2010, 2014, 2017, and 2020	EDR

5.4 Past Uses – Site

Our interpretation of past uses of the Site, based on the historical data sources listed previously, are tabulated below.

Date	Interpreted Property Use
1928 to 1940	Aerial photographs and Topo maps depict the Site to be undeveloped land.
1948 to 1977	Aerial photographs depict the Site to be cultivated for agricultural use. Two small structures, that appear to be associated with Site agricultural activities, are present on the central portion of the Site.
1981 to 2021	Aerial photographs depict the Site to be cultivated for agricultural use; however, the Site structures previously located on the central portion of the Site have been removed.

5.5 Past Uses – Adjoining Properties

Our interpretation of past uses of the adjoining properties, based on the historical data sources listed previously, are tabulated as follows.

Date	Description
Northern Adjoining Property – Across Avenue K	
1928 to 1933	An aerial photograph and Topo maps depict the property to be undeveloped land.
1940 to 2021	Aerial photographs depict the property to be cultivated for agricultural use. Small structures that appear to be related to farming activities are present in some of the aerial photographs.
Eastern Adjoining Property – Across 95th Street East	
1928 to 2021	Aerial photographs and Topo maps depict the property to be undeveloped land.
Western Adjoining Property – Across 90th Street East	
1928 to 1940	Aerial photographs and Topo maps depict the property to be undeveloped land.
1948 to 2021	Aerial photographs depict the property to be cultivated for agricultural use.
Southern Adjoining Property – Across East Avenue K 8	
1928 to 2021	Aerial photographs and Topo maps depict the property to be undeveloped land.

5.6 Interviews

NV5 interviewed parties potentially having information about current and/or former conditions at the Site. The parties and their affiliation are listed in the following table.

Interviews		
Name	**Affiliation**	**Role**
Mr. Max Margolin	Upstream Energy, Director of Development	Client/User

- Mr. Margolin arranged for Site access, provided basic site information, and completed the User Questionnaire.

6 NON-SCOPE CONSIDERATIONS

Per the authorized scope of work, items beyond the scope of ASTM E 1527-21 were not addressed as part of this assessment.

7 VAPOR ENCROACHMENT SCREENING

ASTM E1527 requires the Environmental Professional to evaluate the potential for vapor encroachment of chemicals of concern (COC) onto the Site, and to determine if such vapor encroachment constitutes evidence of a REC on the Site. The E1527 Standard Practice does not specifically state the methods that must be used to screen for potential vapor encroachment issues. However, ASTM has developed a separate Standard Guide for Vapor Encroachment Screening on Property Involved in Real Estate Transactions (ASTM E2600-22), which outlines an ASTM E1527 compliant methodology to conduct vapor encroachment screening that was used for this assessment as described below.

7.1 VES Methodology

The goal of conducting Vapor Encroachment Screening (VES) is to identify a vapor encroachment condition (VEC), which is defined as the presence or likely presence of chemicals of concern (COC) vapors in the vadose zone of the Site caused by the release of vapors from contaminated soil and/or groundwater either on or near the Site. If a VEC is identified, the Environmental Professional must determine whether the VEC represents evidence of a REC on the Site under the context of the Phase I ESA Standard Practice. It should be noted that the identification of a VEC on the Site does not necessarily indicate that a potential for migration of vapors into existing or proposed structures on the Site is likely. The Environmental Professional will identify the VEC as a REC where the potential for vapor migration into structures is considered likely, or where the contaminant concentrations in the soil, groundwater, or soil vapors on the Site are significant and likely to result in enforcement against on-site or off-site responsible parties.

The VES utilizes information regarding the potential presence of releases on or near the Site that were collected as a normal part of the Phase I ESA process, such as governmental database records, review of governmental files, historical data sources, etc. The VES Standard Guide requires the Environmental Professional to search for potential sites of concern within specific search radii. The area of concern search radius is 1,760 feet (1/3 mile) for non-petroleum-impacted sites and 528 feet (1/10 miles) for petroleum-impacted sites. The default search distances may be expanded or reduced in the upgradient, downgradient, or cross-gradient directions by the Environmental Professional based on experience in the local area and applying professional judgment to factors such as where a well-defined regional groundwater flow direction is identified, or whether other geologic features such as low permeability soils or hydrogeologic boundaries such as rivers or streams exist which would tend to limit the potential for migration of groundwater or vapors in a particular direction.

7.2 VES Search Results

No potential concerns were identified within the VES search radii.

8 FINDINGS

Based on the Site reconnaissance, review of historical and available documents, and interviews, NV5 finds the following:

8.1 Current Site Activities

The Site is currently cultivated farmland.

8.2 Historical Site Activities

The Site is currently cultivated for agricultural use. The Site was previously undeveloped prior to 1940, when it was first cultivated. Two small farm structures were previously located on the central portion of the Site but were removed between 1977 and 1981.

8.3 Off-Site Activities

The Site is located within an area developed for agricultural use. Current uses of adjoining properties include a combination of cultivated farmland and undeveloped vacant land.

8.4 Data-Gaps

The ASTM Standard defines a data gap as “a lack of or inability to obtain information required by the practice despite good faith efforts by the Environmental Professional to gather such information.” A data

gap is only significant if other information obtained during the ESA, or professional experience, raises reasonable concerns and affects the ability of the Environmental Professional to identify whether a given issue is a REC. The ASTM Standard requires that the ESA report identify and comment on significant data gaps. No data gaps were identified by NV5 during this assessment.

9 CONCLUSIONS AND RECOMMENDATIONS

NV5 completed a Phase I ESA of the agricultural field identified by Los Angeles County Assessor's Parcel Number (APN) 3378-003-001 located in the City of Lancaster, Los Angeles County, California (Site). The ESA was performed in conformance with the scope and limitations of the ASTM E1527-21 standard. Any exceptions to, or deletions from, this practice are described in Section 1.0 of this report. The assessment was performed to identify conditions indicative of releases and threatened releases of hazardous substances and petroleum products on, at, in, or to the Site.

RECs

No evidence of a REC, Controlled REC (CREC) or Historic REC (HREC) in connection with the Site was identified during this assessment.

Vapor Encroachment Conditions (VEC)

A Tier 1 vapor encroachment screen (VES) for potential chemicals of concern (COC) was completed for the Site. The assessment was based on the ASTM published Standard Guide E 2600-22. The purpose of the VES was to evaluate the potential for a vapor encroachment condition (VEC) which is the presence or likely presence of COC vapors in subsurface soils at the Site caused by the release of vapors from contaminated soil or groundwater on or near the Site. No potential concerns were identified within the VES search radii.

Environmental Conditions of Note

The Site has been historically used for long-term agricultural use. Although no information or observations indicating the misuse or misapplication of pesticides, herbicides, or fertilizers was obtained during the Site reconnaissance, in certain instances, the chemicals historically applied to the Site, or their breakdown products, could be persistent and not biodegrade. As with any agriculturally developed land, there exists the possibility that pesticides, herbicides, or fertilizers have been applied that may still be present at residual concentrations.

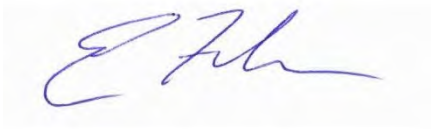
Recommendations

Based on the findings of this assessment, a limited Phase II ESA consisting of shallow soil sampling is recommended to assess if agricultural use (pesticide application and mixing) have negatively impacted the Site.

Additionally, if the Site is redeveloped and the use of the irrigation water well discontinued, the onsite wells should be property abandoned in accordance with all applicable

10 QUALIFICATIONS AND SIGNATURE

I declare that, to the best of my professional knowledge and belief, I meet the definition of Environmental Professional as defined in 40 CFR 312.10. I have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the Site. I have developed and performed the All-Appropriate Inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.



ERIC FRASKE, PE
SENIOR PROJECT MANAGER

Resume and other supporting documentation are maintained on file at NV5.

Figures

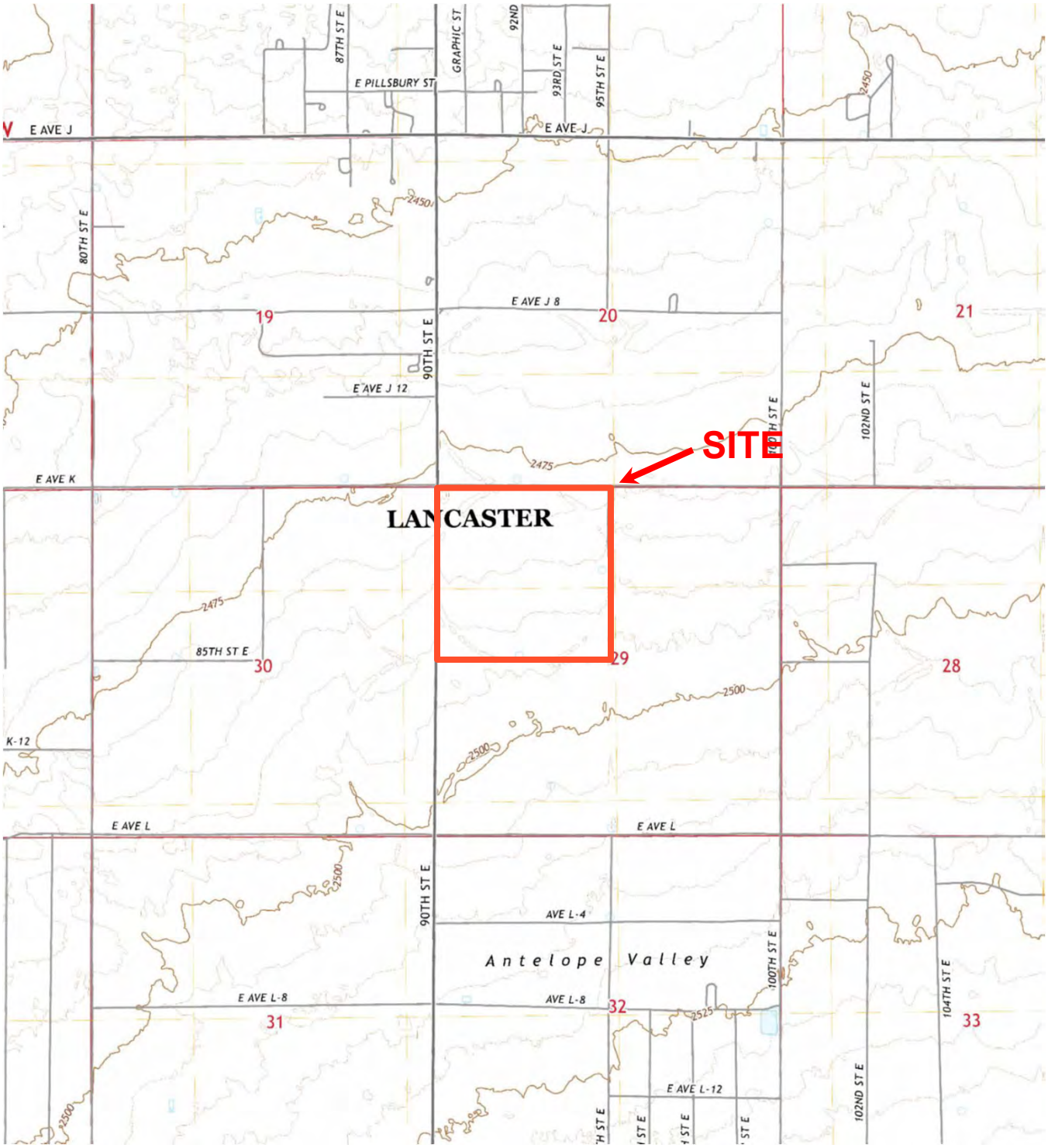


Figure 1: Site Location Map

CLIENT: Upstream Renewable Development LLC	Site Location: Agricultural Field 90th St. E. and E. Avenue K. Lancaster, California 93535
PROJECT #: UPRD-24 -12309	

NV5
ALTA ENVIRONMENTAL

DRAWN: NS	APPROVED : EF	NORTH
SCALE: NOT TO SCALE	DATE: 2/21/24	

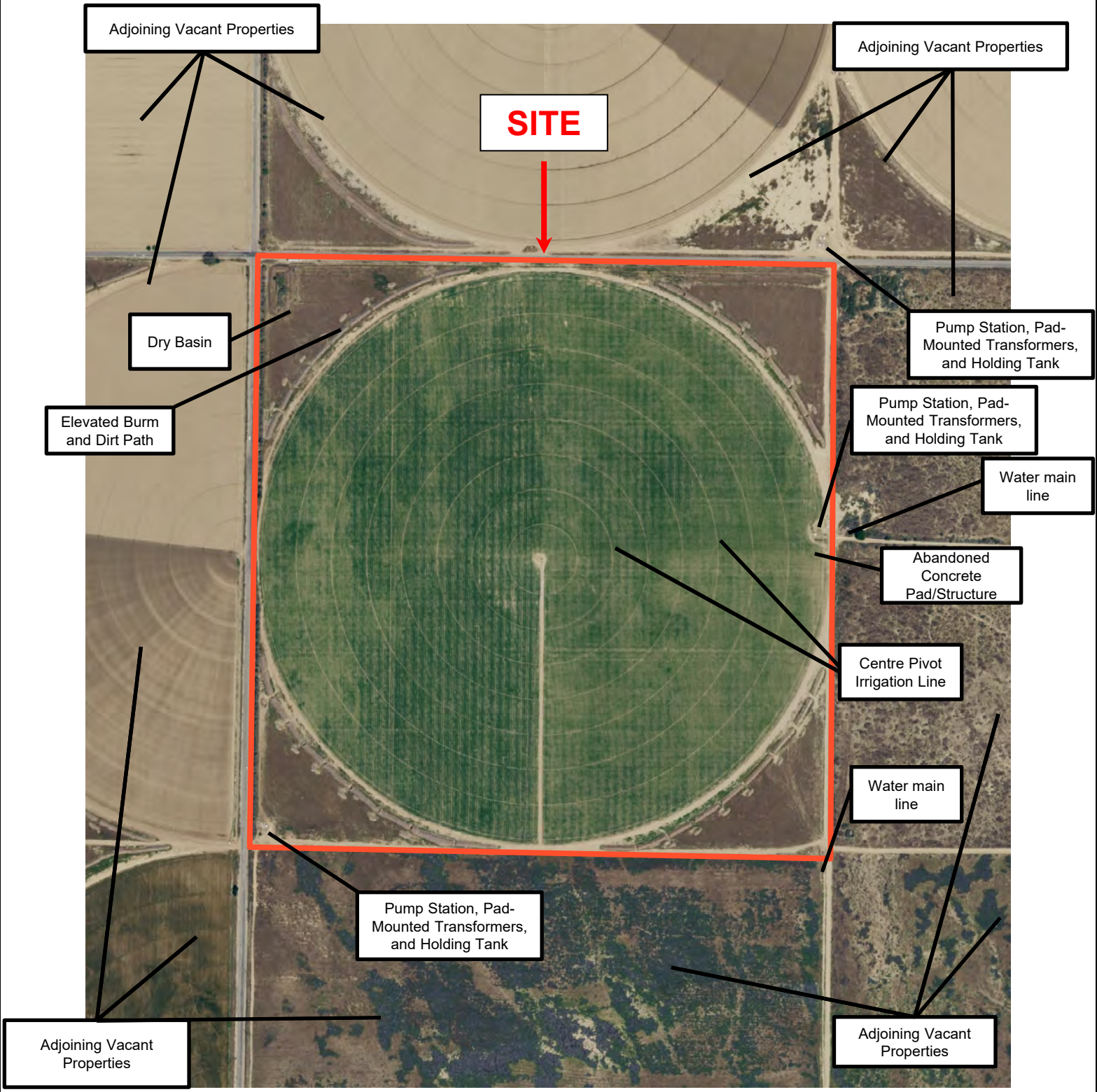
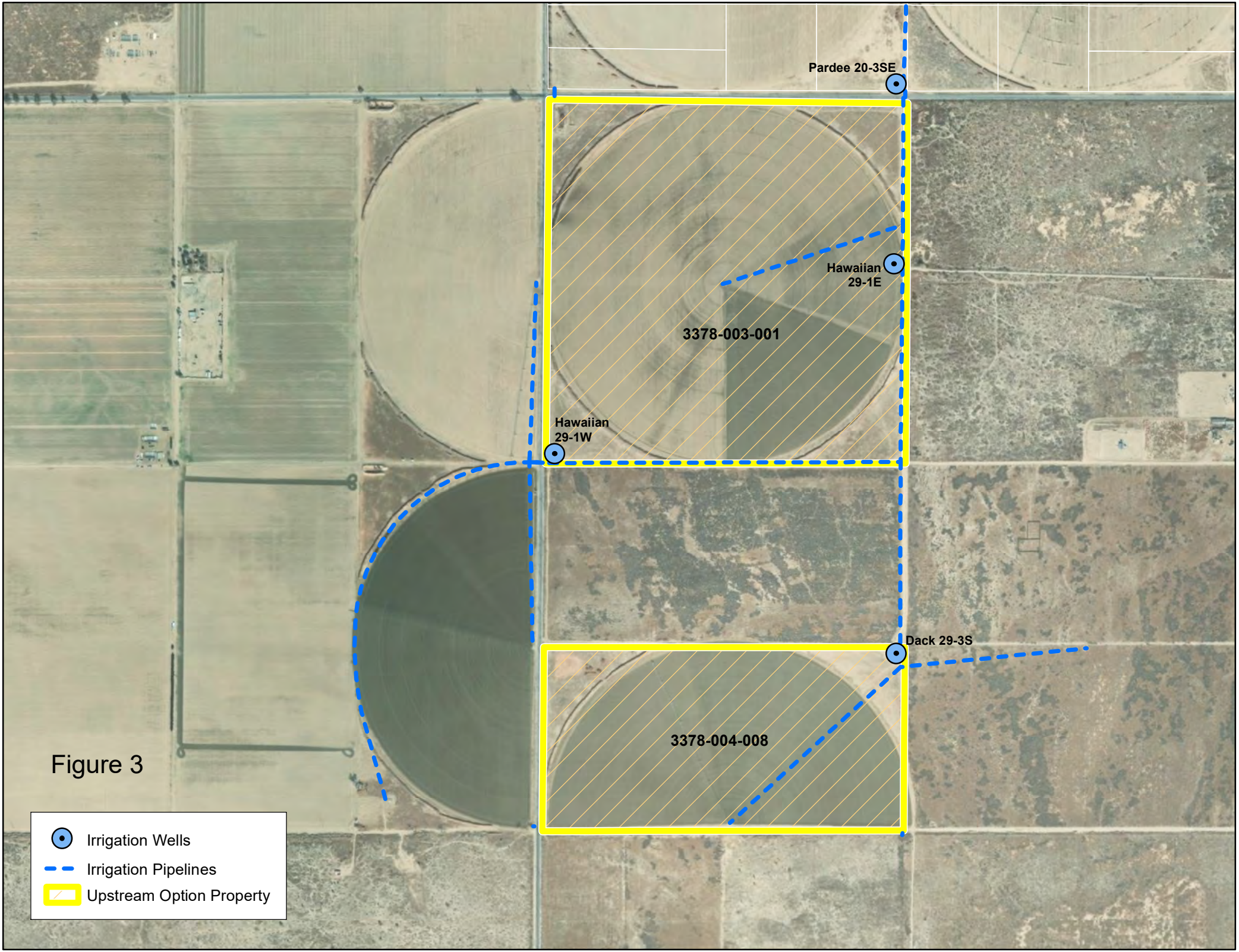


Figure 2: Site Vicinity Map

CLIENT: Upstream Reliability Development LLC	Site Location: Agricultural Field 90th St. E. and E. Avenue K. Lancaster, California 93535
PROJECT #: UPRD-24-12309	

NV5 ALTA ENVIRONMENTAL	DRAWN: NS	APPROVED : EF	NORTH
	SCALE: NOT TO SCALE	DATE: 2/21/24	


Pardee 20-3SE
Hawaiian
29-1E
3378-003-001
Hawaiian
29-1W
Dack 29-3S
3378-004-008
Figure 3
Irrigation Wells
Irrigation Pipelines
Upstream Option Property

Appendix A

Representative Site Photographs



Photo 1: Facing Site from Northern Site Boundary



Photo 2: Northwestern Portion of Site from Eastern Site Boundary



Photo 3: Northern Portion of Site from Southern Boundary



Photo 4: Southeastern Portion of Site from Western Boundary



Photo 5: Constructed Soil and Mulch Burm on Northwestern Portion of Site, Facing South



Photo 6: Central Portion of Site, Facing Southeast



Photo 7: Water Line Control Valves Along East Maintenance Road, Eastern Boundary of Site



Photo 8: Pad-Monted Transformer and Associated Electrical Equipment, Inside Electrified and Fenced Compound, Eastern Boundary of Site



Photo 9: Water Line Aboveground Piping, Connecting to Eastern Site Boundary With Flow Control Valves to Holding Tank



Photo 10: Aboveground Storage Tank Enclosure with Chemical Markings, Connected to Water Line with Flow Control Valves



Photo 11: Standing Rainwater Observed on Southern Boundary of Site Along Maintenance Road



Photo 12: Abandoned Concrete Pad with Circular Metal Lid Associated with a Former Well Located Along Eastern Site Boundary Maintenance Road



Photo 13: Site Transformer and Associated Electrical Equipment and Aboveground Storage Tank with Flow Valves Connected to Southern Water Line Located on Southwestern Portion of Site.



Photo 14: Northwestern Adjoining Property



Photo 15: Northern Adjoining Property



Photo 16: Northeastern Adjoining Property



Photo 17: Eastern Adjoining Property



Photo 18: Southeastern Adjoining Property



Photo 19: Southern Adjoining Property



Photo 20: Southwestern Adjoining Property



Photo 21: Western Adjoining Property

Appendix B

EDR Radius Report with GeoCheck

Lancaster Parcel 3378-003-001
Not Reported
LANCASTER, CA 93535

Inquiry Number: 7563392.2s
February 08, 2024

The EDR Radius Map™ Report with GeoCheck®

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

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Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E1527 - 21), the ASTM Standard Practice for Environmental Site Assessments for Forestland or Rural Property (E2247 - 16), the ASTM Standard Practice for Limited Environmental Due Diligence: Transaction Screen Process (E1528 - 22) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

NOT REPORTED
LANCASTER, CA 93535

COORDINATES

Latitude (North):	34.6717700 - 34° 40' 18.37''
Longitude (West):	117.9652450 - 117° 57' 54.88''
Universal Tranverse Mercator:	Zone 11
UTM X (Meters):	411566.0
UTM Y (Meters):	3836871.8
Elevation:	2488 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	50005266 ALPINE BUTTE, CA
Version Date:	2021

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from:	20200501
Source:	USDA

MAPPED SITES SUMMARY

Target Property Address:
NOT REPORTED
LANCASTER, CA 93535

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION

NO MAPPED SITES FOUND

EXECUTIVE SUMMARY

TARGET PROPERTY SEARCH RESULTS

The target property was not listed in any of the databases searched by EDR.

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

STANDARD ENVIRONMENTAL RECORDS

Lists of Federal NPL (Superfund) sites

NPL ---------- National Priority List
Proposed NPL ---------- Proposed National Priority List Sites
NPL LIENS ---------- Federal Superfund Liens

Lists of Federal Delisted NPL sites

Delisted NPL ---------- National Priority List Deletions

Lists of Federal sites subject to CERCLA removals and CERCLA orders

FEDERAL FACILITY ---------- Federal Facility Site Information listing
SEMS ---------- Superfund Enterprise Management System

Lists of Federal CERCLA sites with NFRAP

SEMS-ARCHIVE ---------- Superfund Enterprise Management System Archive

Lists of Federal RCRA facilities undergoing Corrective Action

CORRACTS ---------- Corrective Action Report

Lists of Federal RCRA TSD facilities

RCRA-TSDF ---------- RCRA - Treatment, Storage and Disposal

Lists of Federal RCRA generators

RCRA-LQG ---------- RCRA - Large Quantity Generators
RCRA-SQG ---------- RCRA - Small Quantity Generators
RCRA-VSQG ---------- RCRA - Very Small Quantity Generators (Formerly Conditionally Exempt Small Quantity Generators)

Federal institutional controls / engineering controls registries

LUCIS ---------- Land Use Control Information System

US ENG CONTROLS..... Engineering Controls Sites List
US INST CONTROLS..... Institutional Controls Sites List

Federal ERNS list

ERNS..... Emergency Response Notification System

Lists of state- and tribal (Superfund) equivalent sites

RESPONSE..... State Response Sites

Lists of state- and tribal hazardous waste facilities

ENVIROSTOR..... EnviroStor Database

Lists of state and tribal landfills and solid waste disposal facilities

SWF/LF..... Solid Waste Information System

Lists of state and tribal leaking storage tanks

LUST..... Geotracker's Leaking Underground Fuel Tank Report
INDIAN LUST..... Leaking Underground Storage Tanks on Indian Land
CPS-SLIC..... Statewide SLIC Cases

Lists of state and tribal registered storage tanks

FEMA UST..... Underground Storage Tank Listing
UST..... Active UST Facilities
AST..... Aboveground Petroleum Storage Tank Facilities
INDIAN UST..... Underground Storage Tanks on Indian Land

Lists of state and tribal voluntary cleanup sites

VCP..... Voluntary Cleanup Program Properties
INDIAN VCP..... Voluntary Cleanup Priority Listing

Lists of state and tribal brownfield sites

BROWNFIELDS..... Considered Brownfieds Sites Listing

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS..... A Listing of Brownfields Sites

Local Lists of Landfill / Solid Waste Disposal Sites

WMUDS/SWAT..... Waste Management Unit Database
SWRCY..... Recycler Database
HAULERS..... Registered Waste Tire Haulers Listing
INDIAN ODI..... Report on the Status of Open Dumps on Indian Lands
DEBRIS REGION 9..... Torres Martinez Reservation Illegal Dump Site Locations

ODI ---------- Open Dump Inventory
IHS OPEN DUMPS ---------- Open Dumps on Indian Land

Local Lists of Hazardous waste / Contaminated Sites

AOCONCERN ---------- Key Areas of Concerns in Los Angeles County
US HIST CDL ---------- Delisted National Clandestine Laboratory Register
HIST Cal-Sites ---------- Historical Calsites Database
SCH ---------- School Property Evaluation Program
CDL ---------- Clandestine Drug Labs
CERS HAZ WASTE ---------- California Environmental Reporting System Hazardous Waste
Toxic Pits ---------- Toxic Pits Cleanup Act Sites
US CDL ---------- National Clandestine Laboratory Register

Local Lists of Registered Storage Tanks

SWEEPS UST ---------- SWEEPS UST Listing
HIST UST ---------- Hazardous Substance Storage Container Database
CA FID UST ---------- Facility Inventory Database
CERS TANKS ---------- California Environmental Reporting System (CERS) Tanks

Local Land Records

LIENS ---------- Environmental Liens Listing
LIENS 2 ---------- CERCLA Lien Information
DEED ---------- Deed Restriction Listing

Records of Emergency Release Reports

HMIRS ---------- Hazardous Materials Information Reporting System
CHMIRS ---------- California Hazardous Material Incident Report System
LDS ---------- Land Disposal Sites Listing
MCS ---------- Military Cleanup Sites Listing
SPILLS 90 ---------- SPILLS 90 data from FirstSearch

Other Ascertainable Records

RCRA NonGen / NLR ---------- RCRA - Non Generators / No Longer Regulated
FUDS ---------- Formerly Used Defense Sites
DOD ---------- Department of Defense Sites
SCRD DRYCLEANERS ---------- State Coalition for Remediation of Drycleaners Listing
US FIN ASSUR ---------- Financial Assurance Information
EPA WATCH LIST ---------- EPA WATCH LIST
2020 COR ACTION ---------- 2020 Corrective Action Program List
TSCA ---------- Toxic Substances Control Act
TRIS ---------- Toxic Chemical Release Inventory System
SSTS ---------- Section 7 Tracking Systems
ROD ---------- Records Of Decision
RMP ---------- Risk Management Plans
RAATS ---------- RCRA Administrative Action Tracking System
PRP ---------- Potentially Responsible Parties
PADS ---------- PCB Activity Database System
ICIS ---------- Integrated Compliance Information System
FTTS ---------- FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

MLTS	Material Licensing Tracking System
COAL ASH DOE	Steam-Electric Plant Operation Data
COAL ASH EPA	Coal Combustion Residues Surface Impoundments List
PCB TRANSFORMER	PCB Transformer Registration Database
RADINFO	Radiation Information Database
HIST FTTS	FIFRA/TSCA Tracking System Administrative Case Listing
DOT OPS	Incident and Accident Data
CONSENT	Superfund (CERCLA) Consent Decrees
INDIAN RESERV	Indian Reservations
FUSRAP	Formerly Utilized Sites Remedial Action Program
UMTRA	Uranium Mill Tailings Sites
LEAD SMELTERS	Lead Smelter Sites
US AIRS	Aerometric Information Retrieval System Facility Subsystem
US MINES	Mines Master Index File
ABANDONED MINES	Abandoned Mines
MINES MRDS	Mineral Resources Data System
FINDS	Facility Index System/Facility Registry System
UXO	Unexploded Ordnance Sites
ECHO	Enforcement & Compliance History Information
DOCKET HWC	Hazardous Waste Compliance Docket Listing
FUELS PROGRAM	EPA Fuels Program Registered Listing
PFAS NPL	Superfund Sites with PFAS Detections Information
PFAS FEDERAL SITES	Federal Sites PFAS Information
PFAS TRIS	List of PFAS Added to the TRI
PFAS TSCA	PFAS Manufacture and Imports Information
PFAS RCRA MANIFEST	PFAS Transfers Identified In the RCRA Database Listing
PFAS ATSDR	PFAS Contamination Site Location Listing
PFAS WQP	Ambient Environmental Sampling for PFAS
PFAS NPDES	Clean Water Act Discharge Monitoring Information
PFAS ECHO	Facilities in Industries that May Be Handling PFAS Listing
PFAS ECHO FIRE TRAINING	Facilities in Industries that May Be Handling PFAS Listing
PFAS PART 139 AIRPORT	All Certified Part 139 Airports PFAS Information Listing
AQUEOUS FOAM NRC	Aqueous Foam Related Incidents Listing
BIOSOLIDS	ICIS-NPDES Biosolids Facility Data
PFAS	PFAS Contamination Site Location Listing
AQUEOUS FOAM	Former Fire Training Facility Assessments Listing
CA BOND EXP. PLAN	Bond Expenditure Plan
CHROME PLATING	Chrome Plating Facilities Listing
Cortese	"Cortese" Hazardous Waste & Substances Sites List
CUPA Listings	CUPA Resources List
DRYCLEANERS	Cleaner Facilities
EMI	Emissions Inventory Data
ENF	Enforcement Action Listing
Financial Assurance	Financial Assurance Information Listing
ICE	Inspection, Compliance and Enforcement
HIST CORTESE	Hazardous Waste & Substance Site List
LOS ANGELES CO. HMS	HMS: Street Number List
HWP	EnviroStor Permitted Facilities Listing
HWT	Registered Hazardous Waste Transporter Database
HWTS	Hazardous Waste Tracking System
HAZNET	Facility and Manifest Data
LOS ANGELES CO LF METHANE	Methane Producing Landfills
MINES	Mines Site Location Listing
MWMP	Medical Waste Management Program Listing
NPDES	NPDES Permits Listing

PEST LIC ---- Pesticide Regulation Licenses Listing
PROC ---- Certified Processors Database
Notify 65 ---- Proposition 65 Records
HAZMAT ---- Hazardous Material Facilities
HAZMAT LA ---- Active & Inactive Hazardous Materials Inventory
LA Co. Site Mitigation ---- Site Mitigation List
UIC ---- UIC Listing
UIC GEO ---- UIC GEO (GEOTRACKER)
WASTEWATER PITS ---- Oil Wastewater Pits Listing
WDS ---- Waste Discharge System
WIP ---- Well Investigation Program Case List
MILITARY PRIV SITES ---- MILITARY PRIV SITES (GEOTRACKER)
PROJECT ---- PROJECT (GEOTRACKER)
WDR ---- Waste Discharge Requirements Listing
CIWQS ---- California Integrated Water Quality System
CERS ---- CERS
NON-CASE INFO ---- NON-CASE INFO (GEOTRACKER)
OTHER OIL GAS ---- OTHER OIL & GAS (GEOTRACKER)
PROD WATER PONDS ---- PROD WATER PONDS (GEOTRACKER)
SAMPLING POINT ---- SAMPLING POINT (GEOTRACKER)
WELL STIM PROJ ---- Well Stimulation Project (GEOTRACKER)
UST FINDER ---- UST Finder Database
UST FINDER RELEASE ---- UST Finder Releases Database

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP ---- EDR Proprietary Manufactured Gas Plants
EDR Hist Auto ---- EDR Exclusive Historical Auto Stations
EDR Hist Cleaner ---- EDR Exclusive Historical Cleaners

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA LF ---- Recovered Government Archive Solid Waste Facilities List
RGA LUST ---- Recovered Government Archive Leaking Underground Storage Tank

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were not identified.

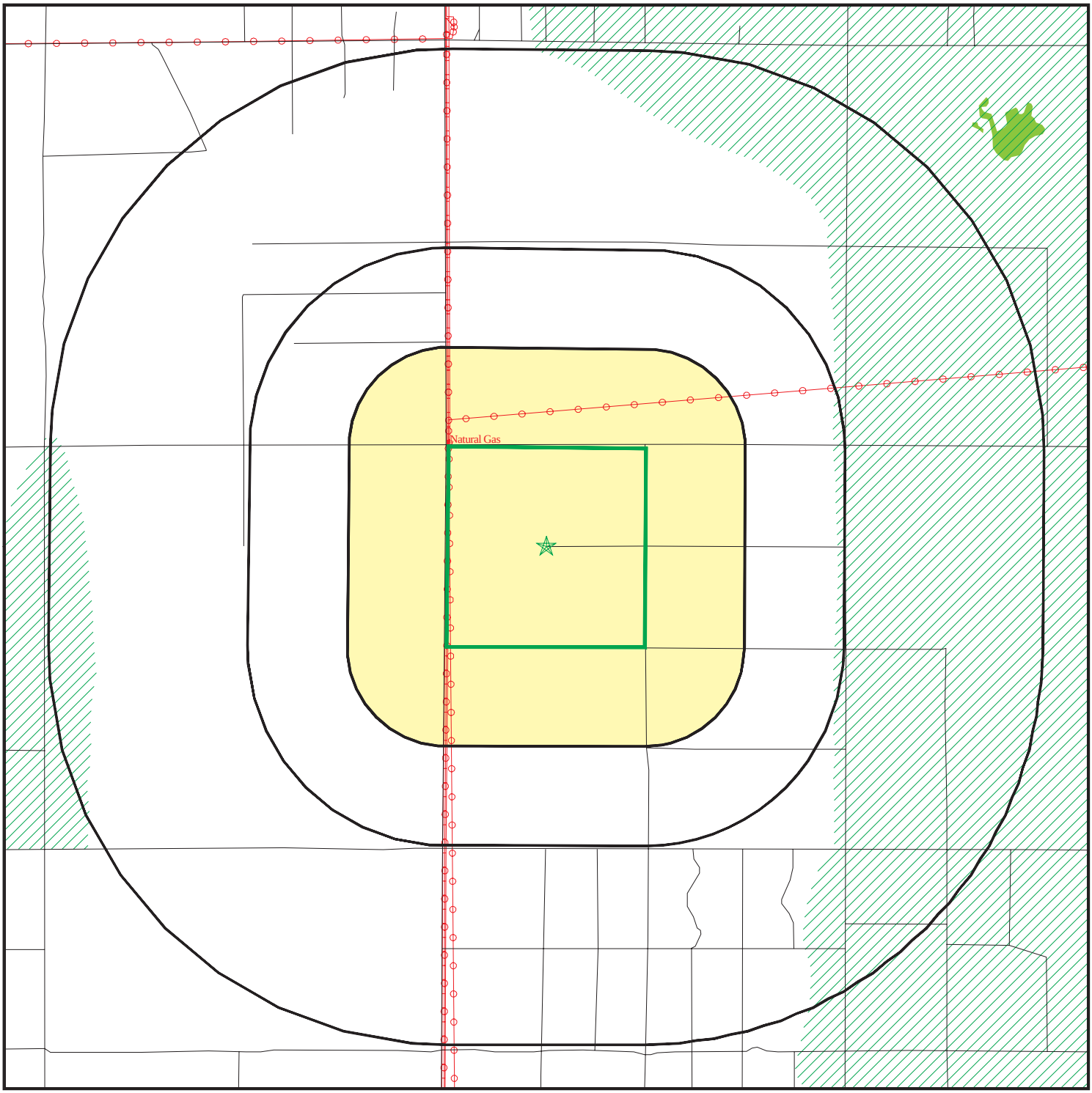
Unmappable (orphan) sites are not considered in the foregoing analysis.

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 1 records.

Site Name	Database(s)
	CDL

OVERVIEW MAP - 7563392.2S



0 1/4 1/2 1 Miles

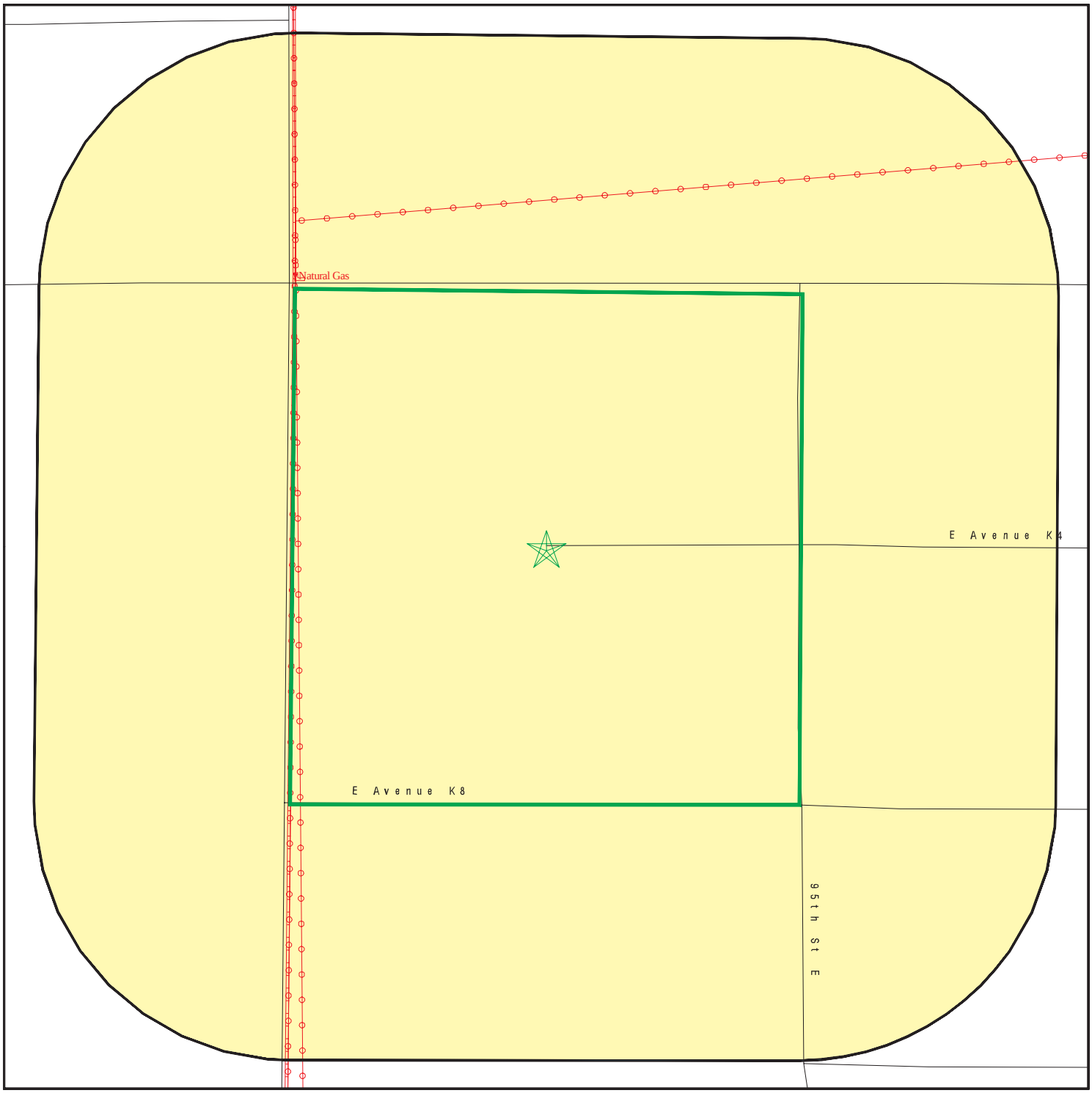
- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA
- Power transmission lines
- Pipelines
- Special Flood Hazard Area (1%)
- 0.2% Annual Chance Flood Hazard
- National Wetland Inventory
- State Wetlands
- Areas of Concern

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME:	Lancaster Parcel 3378-003-001	CLIENT:	NV5
ADDRESS:	Not Reported	CONTACT:	Eric Fraske
	LANCASTER CA 93535	INQUIRY #:	7563392.2s
LAT/LONG:	34.67177 / 117.965245	DATE:	February 08, 2024 2:42 pm

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DETAIL MAP - 7563392.2S



- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- Sensitive Receptors
- National Priority List Sites
- Dept. Defense Sites

0 1/8 1/4 1/2 Miles

- Indian Reservations BIA
- Power transmission lines
- Pipelines
- Special Flood Hazard Area (1%)
- 0.2% Annual Chance Flood Hazard
- Areas of Concern

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME:	Lancaster Parcel 3378-003-001	CLIENT:	NV5
ADDRESS:	Not Reported LANCASTER CA 93535	CONTACT:	Eric Fraske
LAT/LONG:	34.67177 / 117.965245	INQUIRY #:	7563392.2s
		DATE:	February 08, 2024 2:45 pm

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MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMENTAL RECORDS								
Lists of Federal NPL (Superfund) sites								
NPL	1.000		0	0	0	0	NR	0
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	1.000		0	0	0	0	NR	0
Lists of Federal Delisted NPL sites								
Delisted NPL	1.000		0	0	0	0	NR	0
Lists of Federal sites subject to CERCLA removals and CERCLA orders								
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
SEMS	0.500		0	0	0	NR	NR	0
Lists of Federal CERCLA sites with NFRAP								
SEMS-ARCHIVE	0.500		0	0	0	NR	NR	0
Lists of Federal RCRA facilities undergoing Corrective Action								
CORRACTS	1.000		0	0	0	0	NR	0
Lists of Federal RCRA TSD facilities								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
Lists of Federal RCRA generators								
RCRA-LQG	0.250		0	0	NR	NR	NR	0
RCRA-SQG	0.250		0	0	NR	NR	NR	0
RCRA-VSQG	0.250		0	0	NR	NR	NR	0
Federal institutional controls / engineering controls registries								
LUCIS	0.500		0	0	0	NR	NR	0
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROLS	0.500		0	0	0	NR	NR	0
Federal ERNS list								
ERNS	TP		NR	NR	NR	NR	NR	0
Lists of state- and tribal (Superfund) equivalent sites								
RESPONSE	1.000		0	0	0	0	NR	0
Lists of state- and tribal hazardous waste facilities								
ENVIROSTOR	1.000		0	0	0	0	NR	0
Lists of state and tribal landfills and solid waste disposal facilities								
SWF/LF	0.500		0	0	0	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
Lists of state and tribal leaking storage tanks								
LUST	0.500		0	0	0	NR	NR	0
INDIAN LUST	0.500		0	0	0	NR	NR	0
CPS-SLIC	0.500		0	0	0	NR	NR	0
Lists of state and tribal registered storage tanks								
FEMA UST	0.250		0	0	NR	NR	NR	0
UST	0.250		0	0	NR	NR	NR	0
AST	0.250		0	0	NR	NR	NR	0
INDIAN UST	0.250		0	0	NR	NR	NR	0
Lists of state and tribal voluntary cleanup sites								
VCP	0.500		0	0	0	NR	NR	0
INDIAN VCP	0.500		0	0	0	NR	NR	0
Lists of state and tribal brownfield sites								
BROWNFIELDS	0.500		0	0	0	NR	NR	0
ADDITIONAL ENVIRONMENTAL RECORDS								
Local Brownfield lists								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
Local Lists of Landfill / Solid Waste Disposal Sites								
WMUDS/SWAT	0.500		0	0	0	NR	NR	0
SWRCY	0.500		0	0	0	NR	NR	0
HAULERS	TP		NR	NR	NR	NR	NR	0
INDIAN ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
ODI	0.500		0	0	0	NR	NR	0
IHS OPEN DUMPS	0.500		0	0	0	NR	NR	0
Local Lists of Hazardous waste / Contaminated Sites								
AOCONCERN	1.000		0	0	0	0	NR	0
US HIST CDL	TP		NR	NR	NR	NR	NR	0
HIST Cal-Sites	1.000		0	0	0	0	NR	0
SCH	0.250		0	0	NR	NR	NR	0
CDL	TP		NR	NR	NR	NR	NR	0
CERS HAZ WASTE	0.250		0	0	NR	NR	NR	0
Toxic Pits	1.000		0	0	0	0	NR	0
US CDL	TP		NR	NR	NR	NR	NR	0
Local Lists of Registered Storage Tanks								
SWEEPS UST	0.250		0	0	NR	NR	NR	0
HIST UST	0.250		0	0	NR	NR	NR	0
CA FID UST	0.250		0	0	NR	NR	NR	0
CERS TANKS	0.250		0	0	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
Local Land Records								
LIENS	TP		NR	NR	NR	NR	NR	0
LIENS 2	TP		NR	NR	NR	NR	NR	0
DEED	0.500		0	0	0	NR	NR	0
Records of Emergency Release Reports								
HMIRS	TP		NR	NR	NR	NR	NR	0
CHMIRS	TP		NR	NR	NR	NR	NR	0
LDS	TP		NR	NR	NR	NR	NR	0
MCS	TP		NR	NR	NR	NR	NR	0
SPILLS 90	TP		NR	NR	NR	NR	NR	0
Other Ascertainable Records								
RCRA NonGen / NLR	0.250		0	0	NR	NR	NR	0
FUDS	1.000		0	0	0	0	NR	0
DOD	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
US FIN ASSUR	TP		NR	NR	NR	NR	NR	0
EPA WATCH LIST	TP		NR	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
TSCA	TP		NR	NR	NR	NR	NR	0
TRIS	TP		NR	NR	NR	NR	NR	0
SSTS	TP		NR	NR	NR	NR	NR	0
ROD	1.000		0	0	0	0	NR	0
RMP	TP		NR	NR	NR	NR	NR	0
RAATS	TP		NR	NR	NR	NR	NR	0
PRP	TP		NR	NR	NR	NR	NR	0
PADS	TP		NR	NR	NR	NR	NR	0
ICIS	TP		NR	NR	NR	NR	NR	0
FTTS	TP		NR	NR	NR	NR	NR	0
MLTS	TP		NR	NR	NR	NR	NR	0
COAL ASH DOE	TP		NR	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
PCB TRANSFORMER	TP		NR	NR	NR	NR	NR	0
RADINFO	TP		NR	NR	NR	NR	NR	0
HIST FTTS	TP		NR	NR	NR	NR	NR	0
DOT OPS	TP		NR	NR	NR	NR	NR	0
CONSENT	1.000		0	0	0	0	NR	0
INDIAN RESERV	1.000		0	0	0	0	NR	0
FUSRAP	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
LEAD SMELTERS	TP		NR	NR	NR	NR	NR	0
US AIRS	TP		NR	NR	NR	NR	NR	0
US MINES	0.250		0	0	NR	NR	NR	0
ABANDONED MINES	0.250		0	0	NR	NR	NR	0
MINES MRDS	0.250		0	0	NR	NR	NR	0
FINDS	TP		NR	NR	NR	NR	NR	0
UXO	1.000		0	0	0	0	NR	0
ECHO	TP		NR	NR	NR	NR	NR	0
DOCKET HWC	TP		NR	NR	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
FUELS PROGRAM	0.250		0	0	NR	NR	NR	0
PFAS NPL	0.250		0	0	NR	NR	NR	0
PFAS FEDERAL SITES	0.250		0	0	NR	NR	NR	0
PFAS TRIS	0.250		0	0	NR	NR	NR	0
PFAS TSCA	0.250		0	0	NR	NR	NR	0
PFAS RCRA MANIFEST	0.250		0	0	NR	NR	NR	0
PFAS ATSDR	0.250		0	0	NR	NR	NR	0
PFAS WQP	0.250		0	0	NR	NR	NR	0
PFAS NPDES	0.250		0	0	NR	NR	NR	0
PFAS ECHO	0.250		0	0	NR	NR	NR	0
PFAS ECHO FIRE TRAINING	0.250		0	0	NR	NR	NR	0
PFAS PART 139 AIRPORT	0.250		0	0	NR	NR	NR	0
AQUEOUS FOAM NRC	0.250		0	0	NR	NR	NR	0
BIOSOLIDS	TP		NR	NR	NR	NR	NR	0
PFAS	0.250		0	0	NR	NR	NR	0
AQUEOUS FOAM	0.250		0	0	NR	NR	NR	0
CA BOND EXP. PLAN	1.000		0	0	0	0	NR	0
CHROME PLATING	0.500		0	0	0	NR	NR	0
Cortese	0.500		0	0	0	NR	NR	0
CUPA Listings	0.250		0	0	NR	NR	NR	0
DRYCLEANERS	0.250		0	0	NR	NR	NR	0
EMI	TP		NR	NR	NR	NR	NR	0
ENF	TP		NR	NR	NR	NR	NR	0
Financial Assurance	TP		NR	NR	NR	NR	NR	0
ICE	TP		NR	NR	NR	NR	NR	0
HIST CORTESE	0.500		0	0	0	NR	NR	0
LOS ANGELES CO. HMS	TP		NR	NR	NR	NR	NR	0
HWP	1.000		0	0	0	0	NR	0
HWT	0.250		0	0	NR	NR	NR	0
HWTS	TP		NR	NR	NR	NR	NR	0
HAZNET	TP		NR	NR	NR	NR	NR	0
LOS ANGELES CO LF METHANE	0.500		0	0	0	NR	NR	0
MINES	0.250		0	0	NR	NR	NR	0
MWMP	0.250		0	0	NR	NR	NR	0
NPDES	TP		NR	NR	NR	NR	NR	0
PEST LIC	TP		NR	NR	NR	NR	NR	0
PROC	0.500		0	0	0	NR	NR	0
Notify 65	1.000		0	0	0	0	NR	0
HAZMAT	0.250		0	0	NR	NR	NR	0
HAZMAT LA	0.250		0	0	NR	NR	NR	0
LA Co. Site Mitigation	TP		NR	NR	NR	NR	NR	0
UIC	TP		NR	NR	NR	NR	NR	0
UIC GEO	TP		NR	NR	NR	NR	NR	0
WASTEWATER PITS	0.500		0	0	0	NR	NR	0
WDS	TP		NR	NR	NR	NR	NR	0
WIP	0.250		0	0	NR	NR	NR	0
MILITARY PRIV SITES	TP		NR	NR	NR	NR	NR	0
PROJECT	TP		NR	NR	NR	NR	NR	0
WDR	TP		NR	NR	NR	NR	NR	0
CIWQS	TP		NR	NR	NR	NR	NR	0
CERS	TP		NR	NR	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
NON-CASE INFO	TP		NR	NR	NR	NR	NR	0
OTHER OIL GAS	TP		NR	NR	NR	NR	NR	0
PROD WATER PONDS	TP		NR	NR	NR	NR	NR	0
SAMPLING POINT	TP		NR	NR	NR	NR	NR	0
WELL STIM PROJ	TP		NR	NR	NR	NR	NR	0
UST FINDER	0.250		0	0	NR	NR	NR	0
UST FINDER RELEASE	0.500		0	0	0	NR	NR	0
EDR HIGH RISK HISTORICAL RECORDS								
EDR Exclusive Records								
EDR MGP	1.000		0	0	0	0	NR	0
EDR Hist Auto	0.125		0	NR	NR	NR	NR	0
EDR Hist Cleaner	0.125		0	NR	NR	NR	NR	0
EDR RECOVERED GOVERNMENT ARCHIVES								
Exclusive Recovered Govt. Archives								
RGA LF	TP		NR	NR	NR	NR	NR	0
RGA LUST	TP		NR	NR	NR	NR	NR	0
- Totals --		0	0	0	0	0	0	0

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

MAP FINDINGS

Map ID Direction Distance Elevation	Site	Database(s)	EDR ID Number EPA ID Number

NO SITES FOUND

Count: 1 records. ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
LANCASTER	S109254136		AVENUE K, BETWEEN 80TH STREET	93535	CDL

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

STANDARD ENVIRONMENTAL RECORDS

Lists of Federal NPL (Superfund) sites

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 12/26/2023
Date Data Arrived at EDR: 01/02/2024
Date Made Active in Reports: 01/24/2024
Number of Days to Update: 22

Source: EPA
Telephone: N/A
Last EDR Contact: 02/01/2024
Next Scheduled EDR Contact: 04/08/2024
Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 3
Telephone 215-814-5418

EPA Region 4
Telephone 404-562-8033

EPA Region 5
Telephone 312-886-6686

EPA Region 10
Telephone 206-553-8665

EPA Region 6
Telephone: 214-655-6659

EPA Region 7
Telephone: 913-551-7247

EPA Region 8
Telephone: 303-312-6774

EPA Region 9
Telephone: 415-947-4246

Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 12/26/2023
Date Data Arrived at EDR: 01/02/2024
Date Made Active in Reports: 01/24/2024
Number of Days to Update: 22

Source: EPA
Telephone: N/A
Last EDR Contact: 02/01/2024
Next Scheduled EDR Contact: 04/08/2024
Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991
Date Data Arrived at EDR: 02/02/1994
Date Made Active in Reports: 03/30/1994
Number of Days to Update: 56

Source: EPA
Telephone: 202-564-4267
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

Lists of Federal Delisted NPL sites

Delisted NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 12/26/2023
Date Data Arrived at EDR: 01/02/2024
Date Made Active in Reports: 01/24/2024
Number of Days to Update: 22

Source: EPA
Telephone: N/A
Last EDR Contact: 02/01/2024
Next Scheduled EDR Contact: 04/08/2024
Data Release Frequency: Quarterly

Lists of Federal sites subject to CERCLA removals and CERCLA orders

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 12/20/2023
Date Data Arrived at EDR: 12/20/2023
Date Made Active in Reports: 01/24/2024
Number of Days to Update: 35

Source: Environmental Protection Agency
Telephone: 703-603-8704
Last EDR Contact: 12/20/2023
Next Scheduled EDR Contact: 04/08/2024
Data Release Frequency: Varies

SEMS: Superfund Enterprise Management System

SEMS (Superfund Enterprise Management System) tracks hazardous waste sites, potentially hazardous waste sites, and remedial activities performed in support of EPA's Superfund Program across the United States. The list was formerly know as CERCLIS, renamed to SEMS by the EPA in 2015. The list contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). This dataset also contains sites which are either proposed to or on the National Priorities List (NPL) and the sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 09/19/2023
Date Data Arrived at EDR: 10/03/2023
Date Made Active in Reports: 10/19/2023
Number of Days to Update: 16

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 02/01/2024
Next Scheduled EDR Contact: 04/22/2024
Data Release Frequency: Quarterly

Lists of Federal CERCLA sites with NFRAP

SEMS-ARCHIVE: Superfund Enterprise Management System Archive

SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list the site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. The decision does not necessarily mean that there is no hazard associated with a given site; it only means that. based upon available information, the location is not judged to be potential NPL site.

Date of Government Version: 09/19/2023
Date Data Arrived at EDR: 10/03/2023
Date Made Active in Reports: 10/19/2023
Number of Days to Update: 16

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 02/01/2024
Next Scheduled EDR Contact: 04/22/2024
Data Release Frequency: Quarterly

Lists of Federal RCRA facilities undergoing Corrective Action

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 12/04/2023
Date Data Arrived at EDR: 12/06/2023
Date Made Active in Reports: 12/12/2023
Number of Days to Update: 6

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 12/06/2023
Next Scheduled EDR Contact: 04/01/2024
Data Release Frequency: Quarterly

Lists of Federal RCRA TSD facilities

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 12/04/2023
Date Data Arrived at EDR: 12/06/2023
Date Made Active in Reports: 12/12/2023
Number of Days to Update: 6

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 12/06/2023
Next Scheduled EDR Contact: 04/01/2024
Data Release Frequency: Quarterly

Lists of Federal RCRA generators

RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 12/04/2023
Date Data Arrived at EDR: 12/06/2023
Date Made Active in Reports: 12/12/2023
Number of Days to Update: 6

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 12/06/2023
Next Scheduled EDR Contact: 04/01/2024
Data Release Frequency: Quarterly

RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 12/04/2023
Date Data Arrived at EDR: 12/06/2023
Date Made Active in Reports: 12/12/2023
Number of Days to Update: 6

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 12/06/2023
Next Scheduled EDR Contact: 04/01/2024
Data Release Frequency: Quarterly

RCRA-VSQG: RCRA - Very Small Quantity Generators (Formerly Conditionally Exempt Small Quantity Generators)

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Very small quantity generators (VSQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 12/04/2023
Date Data Arrived at EDR: 12/06/2023
Date Made Active in Reports: 12/12/2023
Number of Days to Update: 6

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 12/06/2023
Next Scheduled EDR Contact: 04/01/2024
Data Release Frequency: Quarterly

Federal institutional controls / engineering controls registries

LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 08/03/2023
Date Data Arrived at EDR: 08/07/2023
Date Made Active in Reports: 10/10/2023
Number of Days to Update: 64

Source: Department of the Navy
Telephone: 843-820-7326
Last EDR Contact: 02/02/2024
Next Scheduled EDR Contact: 05/20/2024
Data Release Frequency: Varies

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 08/21/2023
Date Data Arrived at EDR: 08/21/2023
Date Made Active in Reports: 11/07/2023
Number of Days to Update: 78

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 11/17/2023
Next Scheduled EDR Contact: 03/04/2024
Data Release Frequency: Varies

US INST CONTROLS: Institutional Controls Sites List

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 08/21/2023
Date Data Arrived at EDR: 08/21/2023
Date Made Active in Reports: 11/07/2023
Number of Days to Update: 78

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 11/17/2023
Next Scheduled EDR Contact: 03/04/2024
Data Release Frequency: Varies

Federal ERNS list

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 09/18/2023
Date Data Arrived at EDR: 09/20/2023
Date Made Active in Reports: 12/11/2023
Number of Days to Update: 82

Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Last EDR Contact: 12/13/2023
Next Scheduled EDR Contact: 04/01/2024
Data Release Frequency: Quarterly

Lists of state- and tribal (Superfund) equivalent sites

RESPONSE: State Response Sites

Identifies confirmed release sites where DTSC is involved in remediation, either in a lead or oversight capacity. These confirmed release sites are generally high-priority and high potential risk.

Date of Government Version: 10/23/2023
Date Data Arrived at EDR: 10/24/2023
Date Made Active in Reports: 01/11/2024
Number of Days to Update: 79

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 01/23/2024
Next Scheduled EDR Contact: 05/06/2024
Data Release Frequency: Quarterly

Lists of state- and tribal hazardous waste facilities

ENVIROSTOR: EnviroStor Database

The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifes sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

Date of Government Version: 10/23/2023
Date Data Arrived at EDR: 10/24/2023
Date Made Active in Reports: 01/11/2024
Number of Days to Update: 79

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 01/23/2024
Next Scheduled EDR Contact: 05/06/2024
Data Release Frequency: Quarterly

Lists of state and tribal landfills and solid waste disposal facilities

SWF/LF (SWIS): Solid Waste Information System

Active, Closed and Inactive Landfills. SWF/LF records typically contain an inve ntory of solid waste disposal facilities or landfills. These may be active or i nactive facilities or open dumps that failed to meet RCRA Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 11/06/2023
Date Data Arrived at EDR: 11/07/2023
Date Made Active in Reports: 02/05/2024
Number of Days to Update: 90

Source: Department of Resources Recycling and Recovery
Telephone: 916-341-6320
Last EDR Contact: 02/06/2024
Next Scheduled EDR Contact: 05/20/2024
Data Release Frequency: Quarterly

Lists of state and tribal leaking storage tanks

LUST REG 6L: Leaking Underground Storage Tank Case Listing
For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/09/2003
Date Data Arrived at EDR: 09/10/2003
Date Made Active in Reports: 10/07/2003
Number of Days to Update: 27

Source: California Regional Water Quality Control Board Lahontan Region (6)
Telephone: 530-542-5572
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

LUST: Leaking Underground Fuel Tank Report (GEOTRACKER)
Leaking Underground Storage Tank (LUST) Sites included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 09/05/2023
Date Data Arrived at EDR: 09/06/2023
Date Made Active in Reports: 11/22/2023
Number of Days to Update: 77

Source: State Water Resources Control Board
Telephone: see region list
Last EDR Contact: 12/05/2023
Next Scheduled EDR Contact: 03/18/2024
Data Release Frequency: Quarterly

LUST REG 9: Leaking Underground Storage Tank Report
Orange, Riverside, San Diego counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 03/01/2001
Date Data Arrived at EDR: 04/23/2001
Date Made Active in Reports: 05/21/2001
Number of Days to Update: 28

Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-637-5595
Last EDR Contact: 09/26/2011
Next Scheduled EDR Contact: 01/09/2012
Data Release Frequency: No Update Planned

LUST REG 8: Leaking Underground Storage Tanks
California Regional Water Quality Control Board Santa Ana Region (8). For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/14/2005
Date Data Arrived at EDR: 02/15/2005
Date Made Active in Reports: 03/28/2005
Number of Days to Update: 41

Source: California Regional Water Quality Control Board Santa Ana Region (8)
Telephone: 909-782-4496
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

LUST REG 7: Leaking Underground Storage Tank Case Listing
Leaking Underground Storage Tank locations. Imperial, Riverside, San Diego, Santa Barbara counties.

Date of Government Version: 02/26/2004
Date Data Arrived at EDR: 02/26/2004
Date Made Active in Reports: 03/24/2004
Number of Days to Update: 27

Source: California Regional Water Quality Control Board Colorado River Basin Region (7)
Telephone: 760-776-8943
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

LUST REG 5: Leaking Underground Storage Tank Database
Leaking Underground Storage Tank locations. Alameda, Alpine, Amador, Butte, Colusa, Contra Costa, Calveras, El Dorado, Fresno, Glenn, Kern, Kings, Lake, Lassen, Madera, Mariposa, Merced, Modoc, Napa, Nevada, Placer, Plumas, Sacramento, San Joaquin, Shasta, Solano, Stanislaus, Sutter, Tehama, Tulare, Tuolumne, Yolo, Yuba counties.

Date of Government Version: 07/01/2008
Date Data Arrived at EDR: 07/22/2008
Date Made Active in Reports: 07/31/2008
Number of Days to Update: 9

Source: California Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-4834
Last EDR Contact: 07/01/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: No Update Planned

LUST REG 4: Underground Storage Tank Leak List

Los Angeles, Ventura counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35

Source: California Regional Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6710
Last EDR Contact: 09/06/2011
Next Scheduled EDR Contact: 12/19/2011
Data Release Frequency: No Update Planned

LUST REG 3: Leaking Underground Storage Tank Database

Leaking Underground Storage Tank locations. Monterey, San Benito, San Luis Obispo, Santa Barbara, Santa Cruz counties.

Date of Government Version: 05/19/2003
Date Data Arrived at EDR: 05/19/2003
Date Made Active in Reports: 06/02/2003
Number of Days to Update: 14

Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-542-4786
Last EDR Contact: 07/18/2011
Next Scheduled EDR Contact: 10/31/2011
Data Release Frequency: No Update Planned

LUST REG 2: Fuel Leak List

Leaking Underground Storage Tank locations. Alameda, Contra Costa, Marin, Napa, San Francisco, San Mateo, Santa Clara, Solano, Sonoma counties.

Date of Government Version: 09/30/2004
Date Data Arrived at EDR: 10/20/2004
Date Made Active in Reports: 11/19/2004
Number of Days to Update: 30

Source: California Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-622-2433
Last EDR Contact: 09/19/2011
Next Scheduled EDR Contact: 01/02/2012
Data Release Frequency: No Update Planned

LUST REG 1: Active Toxic Site Investigation

Del Norte, Humboldt, Lake, Mendocino, Modoc, Siskiyou, Sonoma, Trinity counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/01/2001
Date Data Arrived at EDR: 02/28/2001
Date Made Active in Reports: 03/29/2001
Number of Days to Update: 29

Source: California Regional Water Quality Control Board North Coast (1)
Telephone: 707-570-3769
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

LUST REG 6V: Leaking Underground Storage Tank Case Listing

Leaking Underground Storage Tank locations. Inyo, Kern, Los Angeles, Mono, San Bernardino counties.

Date of Government Version: 06/07/2005
Date Data Arrived at EDR: 06/07/2005
Date Made Active in Reports: 06/29/2005
Number of Days to Update: 22

Source: California Regional Water Quality Control Board Victorville Branch Office (6)
Telephone: 760-241-7365
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land

A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 04/20/2023
Date Data Arrived at EDR: 05/09/2023
Date Made Active in Reports: 07/14/2023
Number of Days to Update: 66

Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 01/17/2024
Next Scheduled EDR Contact: 04/29/2024
Data Release Frequency: Varies

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 04/19/2023
Date Data Arrived at EDR: 05/09/2023
Date Made Active in Reports: 07/14/2023
Number of Days to Update: 66

Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 01/17/2024
Next Scheduled EDR Contact: 04/29/2024
Data Release Frequency: Varies

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 04/20/2023
Date Data Arrived at EDR: 05/09/2023
Date Made Active in Reports: 07/14/2023
Number of Days to Update: 66

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 01/17/2024
Next Scheduled EDR Contact: 04/29/2024
Data Release Frequency: Varies

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 04/25/2023
Date Data Arrived at EDR: 05/09/2023
Date Made Active in Reports: 07/14/2023
Number of Days to Update: 66

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 01/17/2024
Next Scheduled EDR Contact: 04/29/2024
Data Release Frequency: Varies

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 04/26/2023
Date Data Arrived at EDR: 05/09/2023
Date Made Active in Reports: 07/14/2023
Number of Days to Update: 66

Source: EPA Region 6
Telephone: 214-665-6597
Last EDR Contact: 01/17/2024
Next Scheduled EDR Contact: 04/29/2024
Data Release Frequency: Varies

INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land
Leaking underground storage tanks located on Indian Land in Michigan, Minnesota and Wisconsin.

Date of Government Version: 04/14/2023
Date Data Arrived at EDR: 05/09/2023
Date Made Active in Reports: 07/14/2023
Number of Days to Update: 66

Source: EPA, Region 5
Telephone: 312-886-7439
Last EDR Contact: 01/17/2024
Next Scheduled EDR Contact: 04/29/2024
Data Release Frequency: Varies

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 04/19/2023
Date Data Arrived at EDR: 05/09/2023
Date Made Active in Reports: 07/14/2023
Number of Days to Update: 66

Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 01/17/2024
Next Scheduled EDR Contact: 04/29/2024
Data Release Frequency: Varies

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 04/20/2023
Date Data Arrived at EDR: 05/09/2023
Date Made Active in Reports: 07/14/2023
Number of Days to Update: 66

Source: EPA Region 4
Telephone: 404-562-8677
Last EDR Contact: 01/17/2024
Next Scheduled EDR Contact: 04/29/2024
Data Release Frequency: Varies

CPS-SLIC: Statewide SLIC Cases (GEOTRACKER)

Cleanup Program Sites (CPS; also known as Site Cleanups [SC] and formerly known as Spills, Leaks, Investigations, and Cleanups [SLIC] sites) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 09/05/2023
Date Data Arrived at EDR: 09/06/2023
Date Made Active in Reports: 11/28/2023
Number of Days to Update: 83

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/05/2023
Next Scheduled EDR Contact: 03/18/2024
Data Release Frequency: Varies

SLIC REG 1: Active Toxic Site Investigations

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2003
Date Data Arrived at EDR: 04/07/2003
Date Made Active in Reports: 04/25/2003
Number of Days to Update: 18

Source: California Regional Water Quality Control Board, North Coast Region (1)
Telephone: 707-576-2220
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

SLIC REG 2: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/30/2004
Date Data Arrived at EDR: 10/20/2004
Date Made Active in Reports: 11/19/2004
Number of Days to Update: 30

Source: Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-286-0457
Last EDR Contact: 09/19/2011
Next Scheduled EDR Contact: 01/02/2012
Data Release Frequency: No Update Planned

SLIC REG 3: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 05/18/2006
Date Data Arrived at EDR: 05/18/2006
Date Made Active in Reports: 06/15/2006
Number of Days to Update: 28

Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-549-3147
Last EDR Contact: 07/18/2011
Next Scheduled EDR Contact: 10/31/2011
Data Release Frequency: No Update Planned

SLIC REG 4: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 11/17/2004
Date Data Arrived at EDR: 11/18/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 47

Source: Region Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6600
Last EDR Contact: 07/01/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: No Update Planned

SLIC REG 5: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/01/2005
Date Data Arrived at EDR: 04/05/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 16

Source: Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-3291
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

SLIC REG 6V: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 05/24/2005
Date Data Arrived at EDR: 05/25/2005
Date Made Active in Reports: 06/16/2005
Number of Days to Update: 22

Source: Regional Water Quality Control Board, Victorville Branch
Telephone: 619-241-6583
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

SLIC REG 6L: SLIC Sites
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35

Source: California Regional Water Quality Control Board, Lahontan Region
Telephone: 530-542-5574
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

SLIC REG 7: SLIC List
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 11/24/2004
Date Data Arrived at EDR: 11/29/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 36

Source: California Regional Quality Control Board, Colorado River Basin Region
Telephone: 760-346-7491
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

SLIC REG 8: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2008
Date Data Arrived at EDR: 04/03/2008
Date Made Active in Reports: 04/14/2008
Number of Days to Update: 11

Source: California Region Water Quality Control Board Santa Ana Region (8)
Telephone: 951-782-3298
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

SLIC REG 9: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/10/2007
Date Data Arrived at EDR: 09/11/2007
Date Made Active in Reports: 09/28/2007
Number of Days to Update: 17

Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-467-2980
Last EDR Contact: 08/08/2011
Next Scheduled EDR Contact: 11/21/2011
Data Release Frequency: No Update Planned

Lists of state and tribal registered storage tanks

FEMA UST: Underground Storage Tank Listing
A listing of all FEMA owned underground storage tanks.

Date of Government Version: 03/08/2023
Date Data Arrived at EDR: 03/09/2023
Date Made Active in Reports: 05/30/2023
Number of Days to Update: 82

Source: FEMA
Telephone: 202-646-5797
Last EDR Contact: 01/11/2024
Next Scheduled EDR Contact: 04/15/2024
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

UST: Active UST Facilities
Active UST facilities gathered from the local regulatory agencies

Date of Government Version: 09/05/2023
Date Data Arrived at EDR: 09/06/2023
Date Made Active in Reports: 11/28/2023
Number of Days to Update: 83

Source: SWRCB
Telephone: 916-341-5851
Last EDR Contact: 12/05/2023
Next Scheduled EDR Contact: 03/18/2024
Data Release Frequency: Semi-Annually

UST CLOSURE: Proposed Closure of Underground Storage Tank (UST) Cases
UST cases that are being considered for closure by either the State Water Resources Control Board or the Executive Director have been posted for a 60-day public comment period. UST Case Closures being proposed for consideration by the State Water Resources Control Board. These are primarily UST cases that meet closure criteria under the decisional framework in State Water Board Resolution No. 92-49 and other Board orders. UST Case Closures proposed for consideration by the Executive Director pursuant to State Water Board Resolution No. 2012-0061. These are cases that meet the criteria of the Low-Threat UST Case Closure Policy. UST Case Closure Review Denials and Approved Orders.

Date of Government Version: 08/10/2023
Date Data Arrived at EDR: 09/06/2023
Date Made Active in Reports: 11/28/2023
Number of Days to Update: 83

Source: State Water Resources Control Board
Telephone: 916-327-7844
Last EDR Contact: 11/30/2023
Next Scheduled EDR Contact: 03/18/2024
Data Release Frequency: Varies

MILITARY UST SITES: Military UST Sites (GEOTRACKER)
Military ust sites

Date of Government Version: 09/05/2023
Date Data Arrived at EDR: 09/06/2023
Date Made Active in Reports: 11/27/2023
Number of Days to Update: 82

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/05/2023
Next Scheduled EDR Contact: 03/18/2024
Data Release Frequency: Varies

AST: Aboveground Petroleum Storage Tank Facilities
A listing of aboveground storage tank petroleum storage tank locations.

Date of Government Version: 07/06/2016
Date Data Arrived at EDR: 07/12/2016
Date Made Active in Reports: 09/19/2016
Number of Days to Update: 69

Source: California Environmental Protection Agency
Telephone: 916-327-5092
Last EDR Contact: 12/05/2023
Next Scheduled EDR Contact: 03/25/2024
Data Release Frequency: Varies

INDIAN UST R5: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 04/14/2023
Date Data Arrived at EDR: 05/09/2023
Date Made Active in Reports: 07/14/2023
Number of Days to Update: 66

Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 01/17/2024
Next Scheduled EDR Contact: 04/29/2024
Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 04/26/2023
Date Data Arrived at EDR: 05/09/2023
Date Made Active in Reports: 07/14/2023
Number of Days to Update: 66

Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 01/17/2024
Next Scheduled EDR Contact: 04/29/2024
Data Release Frequency: Varies

INDIAN UST R4: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 04/20/2023
Date Data Arrived at EDR: 05/09/2023
Date Made Active in Reports: 07/14/2023
Number of Days to Update: 66

Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 01/17/2024
Next Scheduled EDR Contact: 04/29/2024
Data Release Frequency: Varies

INDIAN UST R10: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 04/20/2023
Date Data Arrived at EDR: 05/09/2023
Date Made Active in Reports: 07/14/2023
Number of Days to Update: 66

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 01/17/2024
Next Scheduled EDR Contact: 04/29/2024
Data Release Frequency: Varies

INDIAN UST R9: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 04/19/2023
Date Data Arrived at EDR: 05/09/2023
Date Made Active in Reports: 07/14/2023
Number of Days to Update: 66

Source: EPA Region 9
Telephone: 415-972-3368
Last EDR Contact: 01/17/2024
Next Scheduled EDR Contact: 04/29/2024
Data Release Frequency: Varies

INDIAN UST R8: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 04/20/2023
Date Data Arrived at EDR: 05/09/2023
Date Made Active in Reports: 07/14/2023
Number of Days to Update: 66

Source: EPA Region 8
Telephone: 303-312-6137
Last EDR Contact: 01/17/2024
Next Scheduled EDR Contact: 04/29/2024
Data Release Frequency: Varies

INDIAN UST R7: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 04/25/2023
Date Data Arrived at EDR: 05/09/2023
Date Made Active in Reports: 07/14/2023
Number of Days to Update: 66

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 01/17/2024
Next Scheduled EDR Contact: 04/29/2024
Data Release Frequency: Varies

INDIAN UST R1: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 04/20/2023
Date Data Arrived at EDR: 05/09/2023
Date Made Active in Reports: 07/14/2023
Number of Days to Update: 66

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 01/17/2024
Next Scheduled EDR Contact: 04/29/2024
Data Release Frequency: Varies

Lists of state and tribal voluntary cleanup sites

VCP: Voluntary Cleanup Program Properties

Contains low threat level properties with either confirmed or unconfirmed releases and the project proponents have request that DTSC oversee investigation and/or cleanup activities and have agreed to provide coverage for DTSC's costs.

Date of Government Version: 10/23/2023
Date Data Arrived at EDR: 10/24/2023
Date Made Active in Reports: 01/11/2024
Number of Days to Update: 79

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 01/23/2024
Next Scheduled EDR Contact: 05/06/2024
Data Release Frequency: Quarterly

INDIAN VCP R7: Voluntary Cleanup Priority Lisitng

A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008
Date Data Arrived at EDR: 04/22/2008
Date Made Active in Reports: 05/19/2008
Number of Days to Update: 27

Source: EPA, Region 7
Telephone: 913-551-7365
Last EDR Contact: 07/08/2021
Next Scheduled EDR Contact: 07/20/2009
Data Release Frequency: Varies

INDIAN VCP R1: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 07/27/2015
Date Data Arrived at EDR: 09/29/2015
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 142

Source: EPA, Region 1
Telephone: 617-918-1102
Last EDR Contact: 12/12/2023
Next Scheduled EDR Contact: 04/01/2024
Data Release Frequency: Varies

Lists of state and tribal brownfield sites

BROWNFIELDS: Considered Brownfieds Sites Listing

A listing of sites the SWRCB considers to be Brownfields since these are sites have come to them through the MOA Process.

Date of Government Version: 09/19/2023
Date Data Arrived at EDR: 09/20/2023
Date Made Active in Reports: 12/08/2023
Number of Days to Update: 79

Source: State Water Resources Control Board
Telephone: 916-323-7905
Last EDR Contact: 12/13/2023
Next Scheduled EDR Contact: 04/01/2024
Data Release Frequency: Quarterly

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites

Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 08/15/2023
Date Data Arrived at EDR: 08/30/2023
Date Made Active in Reports: 12/01/2023
Number of Days to Update: 93

Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 12/14/2023
Next Scheduled EDR Contact: 03/25/2024
Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

WMUDS/SWAT: Waste Management Unit Database

Waste Management Unit Database System. WMUDS is used by the State Water Resources Control Board staff and the Regional Water Quality Control Boards for program tracking and inventory of waste management units. WMUDS is composed of the following databases: Facility Information, Scheduled Inspections Information, Waste Management Unit Information, SWAT Program Information, SWAT Report Summary Information, SWAT Report Summary Data, Chapter 15 (formerly Subchapter 15) Information, Chapter 15 Monitoring Parameters, TPCA Program Information, RCRA Program Information, Closure Information, and Interested Parties Information.

Date of Government Version: 04/01/2000
Date Data Arrived at EDR: 04/10/2000
Date Made Active in Reports: 05/10/2000
Number of Days to Update: 30

Source: State Water Resources Control Board
Telephone: 916-227-4448
Last EDR Contact: 01/22/2024
Next Scheduled EDR Contact: 05/06/2024
Data Release Frequency: No Update Planned

SWRCY: Recycler Database

A listing of recycling facilities in California.

Date of Government Version: 09/05/2023
Date Data Arrived at EDR: 09/06/2023
Date Made Active in Reports: 11/28/2023
Number of Days to Update: 83

Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 11/29/2023
Next Scheduled EDR Contact: 03/18/2024
Data Release Frequency: Quarterly

HAULERS: Registered Waste Tire Haulers Listing

A listing of registered waste tire haulers.

Date of Government Version: 11/16/2022
Date Data Arrived at EDR: 11/22/2022
Date Made Active in Reports: 02/13/2023
Number of Days to Update: 83

Source: Integrated Waste Management Board
Telephone: 916-341-6422
Last EDR Contact: 02/05/2024
Next Scheduled EDR Contact: 05/20/2024
Data Release Frequency: Varies

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands

Location of open dumps on Indian land.

Date of Government Version: 12/31/1998
Date Data Arrived at EDR: 12/03/2007
Date Made Active in Reports: 01/24/2008
Number of Days to Update: 52

Source: Environmental Protection Agency
Telephone: 703-308-8245
Last EDR Contact: 01/26/2024
Next Scheduled EDR Contact: 05/06/2024
Data Release Frequency: Varies

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations

A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009
Date Data Arrived at EDR: 05/07/2009
Date Made Active in Reports: 09/21/2009
Number of Days to Update: 137

Source: EPA, Region 9
Telephone: 415-947-4219
Last EDR Contact: 01/11/2024
Next Scheduled EDR Contact: 04/29/2024
Data Release Frequency: No Update Planned

ODI: Open Dump Inventory

An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985
Date Data Arrived at EDR: 08/09/2004
Date Made Active in Reports: 09/17/2004
Number of Days to Update: 39

Source: Environmental Protection Agency
Telephone: 800-424-9346
Last EDR Contact: 06/09/2004
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

IHS OPEN DUMPS: Open Dumps on Indian Land
A listing of all open dumps located on Indian Land in the United States.

Date of Government Version: 04/01/2014
Date Data Arrived at EDR: 08/06/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 176
Source: Department of Health & Human Serivces, Indian Health Service
Telephone: 301-443-1452
Last EDR Contact: 01/17/2024
Next Scheduled EDR Contact: 05/06/2024
Data Release Frequency: Varies

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL: National Clandestine Laboratory Register
A listing of clandestine drug lab locations that have been removed from the DEAs National Clandestine Laboratory Register.

Date of Government Version: 11/17/2023
Date Data Arrived at EDR: 11/17/2023
Date Made Active in Reports: 02/07/2024
Number of Days to Update: 82
Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 11/17/2023
Next Scheduled EDR Contact: 03/04/2024
Data Release Frequency: No Update Planned

HIST CAL-SITES: Calsites Database
The Calsites database contains potential or confirmed hazardous substance release properties. In 1996, California EPA reevaluated and significantly reduced the number of sites in the Calsites database. No longer updated by the state agency. It has been replaced by ENVIROSTOR.

Date of Government Version: 08/08/2005
Date Data Arrived at EDR: 08/03/2006
Date Made Active in Reports: 08/24/2006
Number of Days to Update: 21
Source: Department of Toxic Substance Control
Telephone: 916-323-3400
Last EDR Contact: 02/23/2009
Next Scheduled EDR Contact: 05/25/2009
Data Release Frequency: No Update Planned

SCH: School Property Evaluation Program
This category contains proposed and existing school sites that are being evaluated by DTSC for possible hazardous materials contamination. In some cases, these properties may be listed in the CalSites category depending on the level of threat to public health and safety or the environment they pose.

Date of Government Version: 10/23/2023
Date Data Arrived at EDR: 10/24/2023
Date Made Active in Reports: 01/11/2024
Number of Days to Update: 79
Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 01/23/2024
Next Scheduled EDR Contact: 05/06/2024
Data Release Frequency: Quarterly

CDL: Clandestine Drug Labs
A listing of drug lab locations. Listing of a location in this database does not indicate that any illegal drug lab materials were or were not present there, and does not constitute a determination that the location either requires or does not require additional cleanup work.

Date of Government Version: 12/31/2021
Date Data Arrived at EDR: 09/28/2023
Date Made Active in Reports: 12/18/2023
Number of Days to Update: 81
Source: Department of Toxic Substances Control
Telephone: 916-255-6504
Last EDR Contact: 01/29/2024
Next Scheduled EDR Contact: 05/13/2024
Data Release Frequency: Varies

TOXIC PITS: Toxic Pits Cleanup Act Sites
Toxic PITS Cleanup Act Sites. TOXIC PITS identifies sites suspected of containing hazardous substances where cleanup has not yet been completed.

Date of Government Version: 07/01/1995
Date Data Arrived at EDR: 08/30/1995
Date Made Active in Reports: 09/26/1995
Number of Days to Update: 27
Source: State Water Resources Control Board
Telephone: 916-227-4364
Last EDR Contact: 01/26/2009
Next Scheduled EDR Contact: 04/27/2009
Data Release Frequency: No Update Planned

CERS HAZ WASTE: California Environmental Reporting System Hazardous Waste

List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the Hazardous Chemical Management, Hazardous Waste Onsite Treatment, Household Hazardous Waste Collection, Hazardous Waste Generator, and RCRA LQ HW Generator programs.

Date of Government Version: 10/16/2023
Date Data Arrived at EDR: 10/17/2023
Date Made Active in Reports: 01/09/2024
Number of Days to Update: 84

Source: CalEPA
Telephone: 916-323-2514
Last EDR Contact: 01/16/2024
Next Scheduled EDR Contact: 04/29/2024
Data Release Frequency: Quarterly

US CDL: Clandestine Drug Labs

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 11/17/2023
Date Data Arrived at EDR: 11/17/2023
Date Made Active in Reports: 02/07/2024
Number of Days to Update: 82

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 11/17/2023
Next Scheduled EDR Contact: 03/04/2024
Data Release Frequency: Quarterly

Local Lists of Registered Storage Tanks

SWEEPS UST: SWEEPS UST Listing

Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1990's. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

Date of Government Version: 06/01/1994
Date Data Arrived at EDR: 07/07/2005
Date Made Active in Reports: 08/11/2005
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: N/A
Last EDR Contact: 06/03/2005
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

HIST UST: Hazardous Substance Storage Container Database

The Hazardous Substance Storage Container Database is a historical listing of UST sites. Refer to local/county source for current data.

Date of Government Version: 10/15/1990
Date Data Arrived at EDR: 01/25/1991
Date Made Active in Reports: 02/12/1991
Number of Days to Update: 18

Source: State Water Resources Control Board
Telephone: 916-341-5851
Last EDR Contact: 07/26/2001
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

SAN FRANCISCO AST: Aboveground Storage Tank Site Listing

Aboveground storage tank sites

Date of Government Version: 10/30/2023
Date Data Arrived at EDR: 11/01/2023
Date Made Active in Reports: 01/23/2024
Number of Days to Update: 83

Source: San Francisco County Department of Public Health
Telephone: 415-252-3896
Last EDR Contact: 01/29/2024
Next Scheduled EDR Contact: 05/13/2024
Data Release Frequency: Varies

CA FID UST: Facility Inventory Database

The Facility Inventory Database (FID) contains a historical listing of active and inactive underground storage tank locations from the State Water Resource Control Board. Refer to local/county source for current data.

Date of Government Version: 10/31/1994
Date Data Arrived at EDR: 09/05/1995
Date Made Active in Reports: 09/29/1995
Number of Days to Update: 24

Source: California Environmental Protection Agency
Telephone: 916-341-5851
Last EDR Contact: 12/28/1998
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

CERS TANKS: California Environmental Reporting System (CERS) Tanks

List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the Aboveground Petroleum Storage and Underground Storage Tank regulatory programs.

Date of Government Version: 10/16/2023
Date Data Arrived at EDR: 10/17/2023
Date Made Active in Reports: 01/09/2024
Number of Days to Update: 84

Source: California Environmental Protection Agency
Telephone: 916-323-2514
Last EDR Contact: 01/16/2024
Next Scheduled EDR Contact: 04/29/2024
Data Release Frequency: Quarterly

Local Land Records

LIENS: Environmental Liens Listing

A listing of property locations with environmental liens for California where DTSC is a lien holder.

Date of Government Version: 08/22/2023
Date Data Arrived at EDR: 08/24/2023
Date Made Active in Reports: 11/07/2023
Number of Days to Update: 75

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 11/21/2023
Next Scheduled EDR Contact: 03/11/2024
Data Release Frequency: Varies

LIENS 2: CERCLA Lien Information

A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 11/14/2023
Date Data Arrived at EDR: 12/22/2023
Date Made Active in Reports: 01/24/2024
Number of Days to Update: 33

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 02/01/2024
Next Scheduled EDR Contact: 04/08/2024
Data Release Frequency: Semi-Annually

DEED: Deed Restriction Listing

Site Mitigation and Brownfields Reuse Program Facility Sites with Deed Restrictions & Hazardous Waste Management Program Facility Sites with Deed / Land Use Restriction. The DTSC Site Mitigation and Brownfields Reuse Program (SMBRP) list includes sites cleaned up under the program's oversight and generally does not include current or former hazardous waste facilities that required a hazardous waste facility permit. The list represents deed restrictions that are active. Some sites have multiple deed restrictions. The DTSC Hazardous Waste Management Program (HWMP) has developed a list of current or former hazardous waste facilities that have a recorded land use restriction at the local county recorder's office. The land use restrictions on this list were required by the DTSC HWMP as a result of the presence of hazardous substances that remain on site after the facility (or part of the facility) has been closed or cleaned up. The types of land use restriction include deed notice, deed restriction, or a land use restriction that binds current and future owners.

Date of Government Version: 08/28/2023
Date Data Arrived at EDR: 08/29/2023
Date Made Active in Reports: 11/13/2023
Number of Days to Update: 76

Source: DTSC and SWRCB
Telephone: 916-323-3400
Last EDR Contact: 11/22/2023
Next Scheduled EDR Contact: 03/11/2024
Data Release Frequency: Semi-Annually

Records of Emergency Release Reports

HMIRS: Hazardous Materials Information Reporting System
Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 09/18/2023
Date Data Arrived at EDR: 09/20/2023
Date Made Active in Reports: 11/14/2023
Number of Days to Update: 55

Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 12/13/2023
Next Scheduled EDR Contact: 04/01/2024
Data Release Frequency: Quarterly

CHMIRS: California Hazardous Material Incident Report System
California Hazardous Material Incident Reporting System. CHMIRS contains information on reported hazardous material incidents (accidental releases or spills).

Date of Government Version: 06/01/2023
Date Data Arrived at EDR: 07/18/2023
Date Made Active in Reports: 10/05/2023
Number of Days to Update: 79

Source: Office of Emergency Services
Telephone: 916-845-8400
Last EDR Contact: 01/18/2024
Next Scheduled EDR Contact: 04/29/2024
Data Release Frequency: Semi-Annually

LDS: Land Disposal Sites Listing (GEOTRACKER)
Land Disposal sites (Landfills) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 09/05/2023
Date Data Arrived at EDR: 09/06/2023
Date Made Active in Reports: 11/22/2023
Number of Days to Update: 77

Source: State Water Qualilty Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/05/2023
Next Scheduled EDR Contact: 03/18/2024
Data Release Frequency: Quarterly

MCS: Military Cleanup Sites Listing (GEOTRACKER)
Military sites (consisting of: Military UST sites; Military Privatized sites; and Military Cleanup sites [formerly known as DoD non UST]) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 09/05/2023
Date Data Arrived at EDR: 09/06/2023
Date Made Active in Reports: 11/22/2023
Number of Days to Update: 77

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/05/2023
Next Scheduled EDR Contact: 03/18/2024
Data Release Frequency: Quarterly

SPILLS 90: SPILLS90 data from FirstSearch
Spills 90 includes those spill and release records available exclusively from FirstSearch databases. Typically, they may include chemical, oil and/or hazardous substance spills recorded after 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 90.

Date of Government Version: 06/06/2012
Date Data Arrived at EDR: 01/03/2013
Date Made Active in Reports: 02/22/2013
Number of Days to Update: 50

Source: FirstSearch
Telephone: N/A
Last EDR Contact: 01/03/2013
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

Other Ascertainable Records

RCRA NonGen / NLR: RCRA - Non Generators / No Longer Regulated
RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 12/04/2023
Date Data Arrived at EDR: 12/06/2023
Date Made Active in Reports: 12/12/2023
Number of Days to Update: 6
Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 12/06/2023
Next Scheduled EDR Contact: 04/01/2024
Data Release Frequency: Quarterly

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 09/28/2023
Date Data Arrived at EDR: 11/10/2023
Date Made Active in Reports: 02/07/2024
Number of Days to Update: 89
Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 11/10/2023
Next Scheduled EDR Contact: 02/26/2024
Data Release Frequency: Varies

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 06/07/2021
Date Data Arrived at EDR: 07/13/2021
Date Made Active in Reports: 03/09/2022
Number of Days to Update: 239
Source: USGS
Telephone: 888-275-8747
Last EDR Contact: 01/10/2024
Next Scheduled EDR Contact: 04/22/2024
Data Release Frequency: Varies

FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 04/02/2018
Date Data Arrived at EDR: 04/11/2018
Date Made Active in Reports: 11/06/2019
Number of Days to Update: 574
Source: U.S. Geological Survey
Telephone: 888-275-8747
Last EDR Contact: 01/05/2024
Next Scheduled EDR Contact: 04/15/2024
Data Release Frequency: N/A

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 07/30/2021
Date Data Arrived at EDR: 02/03/2023
Date Made Active in Reports: 02/10/2023
Number of Days to Update: 7
Source: Environmental Protection Agency
Telephone: 615-532-8599
Last EDR Contact: 02/06/2024
Next Scheduled EDR Contact: 05/20/2024
Data Release Frequency: Varies

US FIN ASSUR: Financial Assurance Information

All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.

Date of Government Version: 09/18/2023
Date Data Arrived at EDR: 09/20/2023
Date Made Active in Reports: 12/12/2023
Number of Days to Update: 83
Source: Environmental Protection Agency
Telephone: 202-566-1917
Last EDR Contact: 12/13/2023
Next Scheduled EDR Contact: 04/01/2024
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

EPA WATCH LIST: EPA WATCH LIST

EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.

Date of Government Version: 08/30/2013
Date Data Arrived at EDR: 03/21/2014
Date Made Active in Reports: 06/17/2014
Number of Days to Update: 88

Source: Environmental Protection Agency
Telephone: 617-520-3000
Last EDR Contact: 01/29/2024
Next Scheduled EDR Contact: 05/13/2024
Data Release Frequency: Quarterly

2020 COR ACTION: 2020 Corrective Action Program List

The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 09/30/2017
Date Data Arrived at EDR: 05/08/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 73

Source: Environmental Protection Agency
Telephone: 703-308-4044
Last EDR Contact: 02/02/2024
Next Scheduled EDR Contact: 05/13/2024
Data Release Frequency: Varies

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2020
Date Data Arrived at EDR: 06/14/2022
Date Made Active in Reports: 03/24/2023
Number of Days to Update: 283

Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 12/14/2023
Next Scheduled EDR Contact: 03/25/2024
Data Release Frequency: Every 4 Years

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2022
Date Data Arrived at EDR: 11/13/2023
Date Made Active in Reports: 02/07/2024
Number of Days to Update: 86

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 11/13/2023
Next Scheduled EDR Contact: 02/26/2024
Data Release Frequency: Annually

SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 10/19/2023
Date Data Arrived at EDR: 10/20/2023
Date Made Active in Reports: 01/16/2024
Number of Days to Update: 88

Source: EPA
Telephone: 202-564-4203
Last EDR Contact: 01/17/2024
Next Scheduled EDR Contact: 04/29/2024
Data Release Frequency: Annually

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 12/26/2023
Date Data Arrived at EDR: 01/02/2024
Date Made Active in Reports: 01/24/2024
Number of Days to Update: 22

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 02/01/2024
Next Scheduled EDR Contact: 03/11/2024
Data Release Frequency: Annually

RMP: Risk Management Plans

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 09/01/2023
Date Data Arrived at EDR: 09/27/2023
Date Made Active in Reports: 12/21/2023
Number of Days to Update: 85

Source: Environmental Protection Agency
Telephone: 202-564-8600
Last EDR Contact: 01/12/2024
Next Scheduled EDR Contact: 04/19/2024
Data Release Frequency: Varies

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995
Date Data Arrived at EDR: 07/03/1995
Date Made Active in Reports: 08/07/1995
Number of Days to Update: 35

Source: EPA
Telephone: 202-564-4104
Last EDR Contact: 06/02/2008
Next Scheduled EDR Contact: 09/01/2008
Data Release Frequency: No Update Planned

PRP: Potentially Responsible Parties

A listing of verified Potentially Responsible Parties

Date of Government Version: 09/19/2023
Date Data Arrived at EDR: 10/03/2023
Date Made Active in Reports: 10/19/2023
Number of Days to Update: 16

Source: EPA
Telephone: 202-564-6023
Last EDR Contact: 02/01/2024
Next Scheduled EDR Contact: 05/13/2024
Data Release Frequency: Quarterly

PADS: PCB Activity Database System

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 03/20/2023
Date Data Arrived at EDR: 04/04/2023
Date Made Active in Reports: 06/09/2023
Number of Days to Update: 66

Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 01/05/2024
Next Scheduled EDR Contact: 04/15/2024
Data Release Frequency: Annually

ICIS: Integrated Compliance Information System

The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 11/18/2016
Date Data Arrived at EDR: 11/23/2016
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 79

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/26/2023
Next Scheduled EDR Contact: 04/15/2024
Data Release Frequency: Quarterly

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Telephone: 202-566-1667
Last EDR Contact: 08/18/2017
Next Scheduled EDR Contact: 12/04/2017
Data Release Frequency: No Update Planned

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA
Telephone: 202-566-1667
Last EDR Contact: 08/18/2017
Next Scheduled EDR Contact: 12/04/2017
Data Release Frequency: No Update Planned

MLTS: Material Licensing Tracking System

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 07/20/2023
Date Data Arrived at EDR: 09/01/2023
Date Made Active in Reports: 09/20/2023
Number of Days to Update: 19

Source: Nuclear Regulatory Commission
Telephone: 301-415-0717
Last EDR Contact: 01/11/2024
Next Scheduled EDR Contact: 04/29/2024
Data Release Frequency: Quarterly

COAL ASH DOE: Steam-Electric Plant Operation Data

A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2021
Date Data Arrived at EDR: 04/14/2023
Date Made Active in Reports: 07/10/2023
Number of Days to Update: 87

Source: Department of Energy
Telephone: 202-586-8719
Last EDR Contact: 11/27/2023
Next Scheduled EDR Contact: 03/11/2024
Data Release Frequency: Varies

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List

A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 01/12/2017
Date Data Arrived at EDR: 03/05/2019
Date Made Active in Reports: 11/11/2019
Number of Days to Update: 251

Source: Environmental Protection Agency
Telephone: N/A
Last EDR Contact: 11/27/2023
Next Scheduled EDR Contact: 03/11/2024
Data Release Frequency: Varies

PCB TRANSFORMER: PCB Transformer Registration Database
The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 09/13/2019
Date Data Arrived at EDR: 11/06/2019
Date Made Active in Reports: 02/10/2020
Number of Days to Update: 96
Source: Environmental Protection Agency
Telephone: 202-566-0517
Last EDR Contact: 02/02/2024
Next Scheduled EDR Contact: 05/13/2024
Data Release Frequency: Varies

RADINFO: Radiation Information Database
The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 07/01/2019
Date Data Arrived at EDR: 07/01/2019
Date Made Active in Reports: 09/23/2019
Number of Days to Update: 84
Source: Environmental Protection Agency
Telephone: 202-343-9775
Last EDR Contact: 12/19/2023
Next Scheduled EDR Contact: 04/08/2024
Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing
A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40
Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2007
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing
A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40
Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2008
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

DOT OPS: Incident and Accident Data
Department of Transporation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 01/02/2020
Date Data Arrived at EDR: 01/28/2020
Date Made Active in Reports: 04/17/2020
Number of Days to Update: 80
Source: Department of Transporation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 01/05/2024
Next Scheduled EDR Contact: 05/06/2024
Data Release Frequency: Quarterly

CONSENT: Superfund (CERCLA) Consent Decrees
Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 12/31/2023
Date Data Arrived at EDR: 01/11/2024
Date Made Active in Reports: 01/16/2024
Number of Days to Update: 5

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 01/03/2024
Next Scheduled EDR Contact: 04/15/2024
Data Release Frequency: Varies

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2021
Date Data Arrived at EDR: 03/09/2023
Date Made Active in Reports: 03/20/2023
Number of Days to Update: 11

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 12/06/2023
Next Scheduled EDR Contact: 04/01/2024
Data Release Frequency: Biennially

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 07/14/2015
Date Made Active in Reports: 01/10/2017
Number of Days to Update: 546

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 01/02/2024
Next Scheduled EDR Contact: 04/15/2024
Data Release Frequency: Semi-Annually

FUSRAP: Formerly Utilized Sites Remedial Action Program

DOE established the Formerly Utilized Sites Remedial Action Program (FUSRAP) in 1974 to remediate sites where radioactive contamination remained from Manhattan Project and early U.S. Atomic Energy Commission (AEC) operations.

Date of Government Version: 03/03/2023
Date Data Arrived at EDR: 03/03/2023
Date Made Active in Reports: 06/09/2023
Number of Days to Update: 98

Source: Department of Energy
Telephone: 202-586-3559
Last EDR Contact: 01/29/2024
Next Scheduled EDR Contact: 05/13/2024
Data Release Frequency: Varies

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 08/30/2019
Date Data Arrived at EDR: 11/15/2019
Date Made Active in Reports: 01/28/2020
Number of Days to Update: 74

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 11/09/2023
Next Scheduled EDR Contact: 02/26/2024
Data Release Frequency: Varies

LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 12/26/2024
Date Data Arrived at EDR: 01/02/2024
Date Made Active in Reports: 01/24/2024
Number of Days to Update: 22

Source: Environmental Protection Agency
Telephone: 703-603-8787
Last EDR Contact: 02/01/2024
Next Scheduled EDR Contact: 04/08/2024
Data Release Frequency: Varies

LEAD SMELTER 2: Lead Smelter Sites

A list of several hundred sites in the U.S. where secondary lead smelting was done from 1931and 1964. These sites may pose a threat to public health through ingestion or inhalation of contaminated soil or dust

Date of Government Version: 04/05/2001
Date Data Arrived at EDR: 10/27/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 36

Source: American Journal of Public Health
Telephone: 703-305-6451
Last EDR Contact: 12/02/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)

The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Annually

US AIRS MINOR: Air Facility System Data

A listing of minor source facilities.

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Annually

MINES VIOLATIONS: MSHA Violation Assessment Data

Mines violation and assessment information. Department of Labor, Mine Safety & Health Administration.

Date of Government Version: 01/02/2024
Date Data Arrived at EDR: 01/03/2024
Date Made Active in Reports: 01/04/2024
Number of Days to Update: 1

Source: DOL, Mine Safety & Health Admi
Telephone: 202-693-9424
Last EDR Contact: 01/03/2024
Next Scheduled EDR Contact: 05/20/2024
Data Release Frequency: Quarterly

US MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 08/01/2023
Date Data Arrived at EDR: 08/22/2023
Date Made Active in Reports: 11/07/2023
Number of Days to Update: 77

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 11/17/2023
Next Scheduled EDR Contact: 03/04/2024
Data Release Frequency: Semi-Annually

US MINES 2: Ferrous and Nonferrous Metal Mines Database Listing

This map layer includes ferrous (ferrous metal mines are facilities that extract ferrous metals, such as iron ore or molybdenum) and nonferrous (Nonferrous metal mines are facilities that extract nonferrous metals, such as gold, silver, copper, zinc, and lead) metal mines in the United States.

Date of Government Version: 01/07/2022
Date Data Arrived at EDR: 02/24/2023
Date Made Active in Reports: 05/17/2023
Number of Days to Update: 82

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 11/20/2023
Next Scheduled EDR Contact: 03/04/2024
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

US MINES 3: Active Mines & Mineral Plants Database Listing

Active Mines and Mineral Processing Plant operations for commodities monitored by the Minerals Information Team of the USGS.

Date of Government Version: 04/14/2011
Date Data Arrived at EDR: 06/08/2011
Date Made Active in Reports: 09/13/2011
Number of Days to Update: 97

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 11/20/2023
Next Scheduled EDR Contact: 03/04/2024
Data Release Frequency: Varies

ABANDONED MINES: Abandoned Mines

An inventory of land and water impacted by past mining (primarily coal mining) is maintained by OSMRE to provide information needed to implement the Surface Mining Control and Reclamation Act of 1977 (SMCRA). The inventory contains information on the location, type, and extent of AML impacts, as well as, information on the cost associated with the reclamation of those problems. The inventory is based upon field surveys by State, Tribal, and OSMRE program officials. It is dynamic to the extent that it is modified as new problems are identified and existing problems are reclaimed.

Date of Government Version: 11/28/2023
Date Data Arrived at EDR: 11/29/2023
Date Made Active in Reports: 12/11/2023
Number of Days to Update: 12

Source: Department of Interior
Telephone: 202-208-2609
Last EDR Contact: 11/28/2023
Next Scheduled EDR Contact: 03/18/2024
Data Release Frequency: Quarterly

MINES MRDS: Mineral Resources Data System

Mineral Resources Data System

Date of Government Version: 08/23/2022
Date Data Arrived at EDR: 11/22/2022
Date Made Active in Reports: 02/28/2023
Number of Days to Update: 98

Source: USGS
Telephone: 703-648-6533
Last EDR Contact: 11/20/2023
Next Scheduled EDR Contact: 03/04/2024
Data Release Frequency: Varies

FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 11/03/2023
Date Data Arrived at EDR: 11/08/2023
Date Made Active in Reports: 11/20/2023
Number of Days to Update: 12

Source: EPA
Telephone: (415) 947-8000
Last EDR Contact: 11/08/2023
Next Scheduled EDR Contact: 03/11/2024
Data Release Frequency: Quarterly

ECHO: Enforcement & Compliance History Information

ECHO provides integrated compliance and enforcement information for about 800,000 regulated facilities nationwide.

Date of Government Version: 09/23/2023
Date Data Arrived at EDR: 10/03/2023
Date Made Active in Reports: 01/04/2024
Number of Days to Update: 93

Source: Environmental Protection Agency
Telephone: 202-564-2280
Last EDR Contact: 12/28/2023
Next Scheduled EDR Contact: 04/15/2024
Data Release Frequency: Quarterly

UXO: Unexploded Ordnance Sites

A listing of unexploded ordnance site locations

Date of Government Version: 09/06/2023
Date Data Arrived at EDR: 09/13/2023
Date Made Active in Reports: 12/11/2023
Number of Days to Update: 89

Source: Department of Defense
Telephone: 703-704-1564
Last EDR Contact: 01/05/2024
Next Scheduled EDR Contact: 04/22/2024
Data Release Frequency: Varies

DOCKET HWC: Hazardous Waste Compliance Docket Listing

A complete list of the Federal Agency Hazardous Waste Compliance Docket Facilities.

Date of Government Version: 05/06/2021
Date Data Arrived at EDR: 05/21/2021
Date Made Active in Reports: 08/11/2021
Number of Days to Update: 82

Source: Environmental Protection Agency
Telephone: 202-564-0527
Last EDR Contact: 11/15/2023
Next Scheduled EDR Contact: 03/04/2024
Data Release Frequency: Varies

FUELS PROGRAM: EPA Fuels Program Registered Listing

This listing includes facilities that are registered under the Part 80 (Code of Federal Regulations) EPA Fuels Programs. All companies now are required to submit new and updated registrations.

Date of Government Version: 11/10/2023
Date Data Arrived at EDR: 11/10/2023
Date Made Active in Reports: 02/07/2024
Number of Days to Update: 89

Source: EPA
Telephone: 800-385-6164
Last EDR Contact: 11/10/2023
Next Scheduled EDR Contact: 02/26/2024
Data Release Frequency: Quarterly

PFAS NPL: Superfund Sites with PFAS Detections Information

EPA's Office of Land and Emergency Management and EPA Regional Offices maintain data describing what is known about site investigations, contamination, and remedial actions under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) where PFAS is present in the environment.

Date of Government Version: 09/23/2023
Date Data Arrived at EDR: 10/03/2023
Date Made Active in Reports: 12/21/2023
Number of Days to Update: 79

Source: Environmental Protection Agency
Telephone: 703-603-8895
Last EDR Contact: 12/28/2023
Next Scheduled EDR Contact: 04/15/2024
Data Release Frequency: Varies

PFAS FEDERAL SITES: Federal Sites PFAS Information

Several federal entities, such as the federal Superfund program, Department of Defense, National Aeronautics and Space Administration, Department of Transportation, and Department of Energy provided information for sites with known or suspected detections at federal facilities.

Date of Government Version: 09/23/2023
Date Data Arrived at EDR: 10/03/2023
Date Made Active in Reports: 12/21/2023
Number of Days to Update: 79

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 12/28/2023
Next Scheduled EDR Contact: 04/15/2024
Data Release Frequency: Varies

PFAS TSCA: PFAS Manufacture and Imports Information

EPA issued the Chemical Data Reporting (CDR) Rule under the Toxic Substances Control Act (TSCA) and requires chemical manufacturers and facilities that manufacture or import chemical substances to report data to EPA. EPA publishes non-confidential business information (non-CBI) and includes descriptive information about each site, corporate parent, production volume, other manufacturing information, and processing and use information.

Date of Government Version: 12/28/2023
Date Data Arrived at EDR: 12/28/2023
Date Made Active in Reports: 01/04/2024
Number of Days to Update: 7

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 12/28/2023
Next Scheduled EDR Contact: 04/15/2024
Data Release Frequency: Varies

PFAS TRIS: List of PFAS Added to the TRI

Section 7321 of the National Defense Authorization Act for Fiscal Year 2020 (NDAA) immediately added certain per- and polyfluoroalkyl substances (PFAS) to the list of chemicals covered by the Toxics Release Inventory (TRI) under Section 313 of the Emergency Planning and Community Right-to-Know Act (EPCRA) and provided a framework for additional PFAS to be added to TRI on an annual basis.

Date of Government Version: 12/28/2023
Date Data Arrived at EDR: 12/28/2023
Date Made Active in Reports: 01/04/2024
Number of Days to Update: 7

Source: Environmental Protection Agency
Telephone: 202-566-0250
Last EDR Contact: 12/28/2023
Next Scheduled EDR Contact: 04/15/2024
Data Release Frequency: Varies

PFAS RCRA MANIFEST: PFAS Transfers Identified In the RCRA Database Listing

To work around the lack of PFAS waste codes in the RCRA database, EPA developed the PFAS Transfers dataset by mining e-Manifest records containing at least one of these common PFAS keywords: PFAS, PFOA, PFOS, PERFL, AFFF, GENX, GEN-X (plus the VT waste codes). These keywords were searched for in the following text fields: Manifest handling instructions (MANIFEST_HANDLING_INSTR), Non-hazardous waste description (NON_HAZ_WASTE_DESCRIPTION), DOT printed information (DOT_PRINTED_INFORMATION), Waste line handling instructions (WASTE_LINE_HANDLING_INSTR), Waste residue comments (WASTE_RESIDUE_COMMENTS).

Date of Government Version: 12/28/2023
Date Data Arrived at EDR: 12/28/2023
Date Made Active in Reports: 01/04/2024
Number of Days to Update: 7

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 12/28/2023
Next Scheduled EDR Contact: 04/15/2024
Data Release Frequency: Varies

PFAS ATSDR: PFAS Contamination Site Location Listing

PFAS contamination site locations from the Department of Health & Human Services, Center for Disease Control & Prevention. ATSDR is involved at a number of PFAS-related sites, either directly or through assisting state and federal partners. As of now, most sites are related to drinking water contamination connected with PFAS production facilities or fire training areas where aqueous film-forming firefighting foam (AFFF) was regularly used.

Date of Government Version: 06/24/2020
Date Data Arrived at EDR: 03/17/2021
Date Made Active in Reports: 11/08/2022
Number of Days to Update: 601

Source: Department of Health & Human Services
Telephone: 202-741-5770
Last EDR Contact: 01/22/2024
Next Scheduled EDR Contact: 05/06/2024
Data Release Frequency: Varies

PFAS WQP: Ambient Environmental Sampling for PFAS

The Water Quality Portal (WQP) is a part of a modernized repository storing ambient sampling data for all environmental media and tissue samples. A wide range of federal, state, tribal and local governments, academic and non-governmental organizations and individuals submit project details and sampling results to this public repository. The information is commonly used for research and assessments of environmental quality.

Date of Government Version: 09/23/2023
Date Data Arrived at EDR: 10/03/2023
Date Made Active in Reports: 10/10/2023
Number of Days to Update: 7

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 12/28/2023
Next Scheduled EDR Contact: 04/15/2024
Data Release Frequency: Varies

PFAS NPDES: Clean Water Act Discharge Monitoring Information

Any discharger of pollutants to waters of the United States from a point source must have a National Pollutant Discharge Elimination System (NPDES) permit. The process for obtaining limits involves the regulated entity (permittee) disclosing releases in a NPDES permit application and the permitting authority (typically the state but sometimes EPA) deciding whether to require monitoring or monitoring with limits. Caveats and Limitations: Less than half of states have required PFAS monitoring for at least one of their permittees and fewer states have established PFAS effluent limits for permittees. New rulemakings have been initiated that may increase the number of facilities monitoring for PFAS in the future.

Date of Government Version: 09/23/2023
Date Data Arrived at EDR: 10/03/2023
Date Made Active in Reports: 01/04/2024
Number of Days to Update: 93

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 12/28/2023
Next Scheduled EDR Contact: 04/15/2024
Data Release Frequency: Varies

PFAS ECHO: Facilities in Industries that May Be Handling PFAS Listing

Regulators and the public have expressed interest in knowing which regulated entities may be using PFAS. EPA has developed a dataset from various sources that show which industries may be handling PFAS. Approximately 120,000 facilities subject to federal environmental programs have operated or currently operate in industry sectors with processes that may involve handling and/or release of PFAS.

Date of Government Version: 09/23/2023
Date Data Arrived at EDR: 10/03/2023
Date Made Active in Reports: 12/21/2023
Number of Days to Update: 79

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 12/28/2023
Next Scheduled EDR Contact: 04/15/2024
Data Release Frequency: Varies

PFAS ECHO FIRE TRAINING: Facilities in Industries that May Be Handling PFAS Listing

A list of fire training sites was added to the Industry Sectors dataset using a keyword search on the permitted facilitys name to identify sites where fire-fighting foam may have been used in training exercises. Additionally, you may view an example spreadsheet of the subset of fire training facility data, as well as the keywords used in selecting or deselecting a facility for the subset. as well as the keywords used in selecting or deselecting a facility for the subset. These keywords were tested to maximize accuracy in selecting facilities that may use fire-fighting foam in training exercises, however, due to the lack of a required reporting field in the data systems for designating fire training sites, this methodology may not identify all fire training sites or may potentially misidentify them.

Date of Government Version: 09/23/2023
Date Data Arrived at EDR: 10/03/2023
Date Made Active in Reports: 12/21/2023
Number of Days to Update: 79

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 12/28/2023
Next Scheduled EDR Contact: 04/15/2024
Data Release Frequency: Varies

PFAS PART 139 AIRPORT: All Certified Part 139 Airports PFAS Information Listing

Since July 1, 2006, all certified part 139 airports are required to have fire-fighting foam onsite that meet military specifications (MIL-F-24385) (14 CFR 139.317). To date, these military specification fire-fighting foams are fluorinated and have been historically used for training and extinguishing. The 2018 FAA Reauthorization Act has a provision stating that no later than October 2021, FAA shall not require the use of fluorinated AFFF. This provision does not prohibit the use of fluorinated AFFF at Part 139 civilian airports; it only prohibits FAA from mandating its use. The Federal Aviation Administration?s document AC 150/5210-6D - Aircraft Fire Extinguishing Agents provides guidance on Aircraft Fire Extinguishing Agents, which includes Aqueous Film Forming Foam (AFFF).

Date of Government Version: 09/23/2023
Date Data Arrived at EDR: 10/03/2023
Date Made Active in Reports: 12/21/2023
Number of Days to Update: 79

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 12/28/2023
Next Scheduled EDR Contact: 04/15/2024
Data Release Frequency: Varies

AQUEOUS FOAM NRC: Aqueous Foam Related Incidents Listing

The National Response Center (NRC) serves as an emergency call center that fields initial reports for pollution and railroad incidents and forwards that information to appropriate federal/state agencies for response. The spreadsheets posted to the NRC website contain initial incident data that has not been validated or investigated by a federal/state response agency. Response center calls from 1990 to the most recent complete calendar year where there was indication of Aqueous Film Forming Foam (AFFF) usage are included in this dataset. NRC calls may reference AFFF usage in the ?Material Involved? or ?Incident Description? fields.

Date of Government Version: 09/23/2023
Date Data Arrived at EDR: 10/03/2023
Date Made Active in Reports: 12/21/2023
Number of Days to Update: 79

Source: Environmental Protection Agency
Telephone: 202-267-2675
Last EDR Contact: 12/28/2023
Next Scheduled EDR Contact: 04/15/2024
Data Release Frequency: Varies

PCS: Permit Compliance System

PCS is a computerized management information system that contains data on National Pollutant Discharge Elimination System (NPDES) permit holding facilities. PCS tracks the permit, compliance, and enforcement status of NPDES facilities.

Date of Government Version: 12/16/2016
Date Data Arrived at EDR: 01/06/2017
Date Made Active in Reports: 02/07/2024
Number of Days to Update: 2588

Source: EPA, Office of Water
Telephone: 202-564-2496
Last EDR Contact: 12/27/2023
Next Scheduled EDR Contact: 04/15/2024
Data Release Frequency: No Update Planned

PCS ENF: Enforcement data

No description is available for this data

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 02/05/2015
Date Made Active in Reports: 03/06/2015
Number of Days to Update: 29

Source: EPA
Telephone: 202-564-2497
Last EDR Contact: 12/27/2023
Next Scheduled EDR Contact: 04/15/2024
Data Release Frequency: Varies

BIOSOLIDS: ICIS-NPDES Biosolids Facility Data

The data reflects compliance information about facilities in the biosolids program.

Date of Government Version: 12/31/2023
Date Data Arrived at EDR: 01/03/2024
Date Made Active in Reports: 01/16/2024
Number of Days to Update: 13

Source: Environmental Protection Agency
Telephone: 202-564-4700
Last EDR Contact: 01/03/2024
Next Scheduled EDR Contact: 04/29/2024
Data Release Frequency: Varies

PFAS: PFAS Contamination Site Location Listing

A listing of PFAS contaminated sites included in the GeoTracker database.

Date of Government Version: 09/05/2023
Date Data Arrived at EDR: 09/06/2023
Date Made Active in Reports: 11/27/2023
Number of Days to Update: 82

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 11/30/2023
Next Scheduled EDR Contact: 03/18/2024
Data Release Frequency: Varies

AQUEOUS FOAM: Former Fire Training Facility Assessments Listing

Airports shown on this list are those believed to use Aqueous Film Forming Foam (AFFF), and certified by the Federal Aviation Administration (FAA) under Title 14, Code of Federal Regulations (CFR), Part 139 (14 CFR Part 139). This list was created by SWRCB using information available from the FAA. Location points shown are from the latitude and longitude listed on the FAA airport master record.

Date of Government Version: 09/05/2023
Date Data Arrived at EDR: 09/06/2023
Date Made Active in Reports: 11/28/2023
Number of Days to Update: 83

Source: State Water Resources Control Board
Telephone: 916-341-5455
Last EDR Contact: 11/30/2023
Next Scheduled EDR Contact: 03/18/2024
Data Release Frequency: Varies

CA BOND EXP. PLAN: Bond Expenditure Plan

Department of Health Services developed a site-specific expenditure plan as the basis for an appropriation of Hazardous Substance Cleanup Bond Act funds. It is not updated.

Date of Government Version: 01/01/1989
Date Data Arrived at EDR: 07/27/1994
Date Made Active in Reports: 08/02/1994
Number of Days to Update: 6

Source: Department of Health Services
Telephone: 916-255-2118
Last EDR Contact: 05/31/1994
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

CHROME PLATING: Chrome Plating Facilities Listing

This listing represents chrome plating facilities the California State Water Resources Control Board staff identified as possibly being a source of Per- and polyfluoroalkyl substance (PFAS) contamination. Sites and locations were identified by staff with the Division of Water Quality in the California State Water Board. Data was collected from the CA Air Resources Board 2013 and 2018 - Cr VI emission survey, CA Emission Inventory, CA HAZ Waste discharge database and by reviewing storm water permits. Former chrome plating sites are also included that are open site investigation or remediation cases with the Regional Water Quality Control Boards and the Department of Toxic Substances Control.

Date of Government Version: 09/05/2023
Date Data Arrived at EDR: 09/06/2023
Date Made Active in Reports: 11/27/2023
Number of Days to Update: 82

Source: State Water Resources Control Board
Telephone: 916-341-5455
Last EDR Contact: 11/30/2023
Next Scheduled EDR Contact: 03/18/2024
Data Release Frequency: Varies

CORTESE: "Cortese" Hazardous Waste & Substances Sites List

The sites for the list are designated by the State Water Resource Control Board (LUST), the Integrated Waste Board (SWF/LS), and the Department of Toxic Substances Control (Cal-Sites).

Date of Government Version: 09/19/2023
Date Data Arrived at EDR: 09/20/2023
Date Made Active in Reports: 12/08/2023
Number of Days to Update: 79

Source: CAL EPA/Office of Emergency Information
Telephone: 916-323-3400
Last EDR Contact: 12/13/2023
Next Scheduled EDR Contact: 04/01/2024
Data Release Frequency: Quarterly

CUPA LIVERMORE-PLEASANTON: CUPA Facility Listing

list of facilities associated with the various CUPA programs in Livermore-Pleasanton

Date of Government Version: 03/31/2023
Date Data Arrived at EDR: 05/08/2023
Date Made Active in Reports: 07/31/2023
Number of Days to Update: 84

Source: Livermore-Pleasanton Fire Department
Telephone: 925-454-2361
Last EDR Contact: 11/09/2023
Next Scheduled EDR Contact: 02/19/2024
Data Release Frequency: Varies

DRYCLEAN YOLO-SOLANO DIST: Yolo-Solano Air Quality Management District Drycleaner Facility Listing

A listing of drycleaner facility locations, for the Yolo-Solano Air Quality Management District.

Date of Government Version: 04/25/2023
Date Data Arrived at EDR: 04/27/2023
Date Made Active in Reports: 07/14/2023
Number of Days to Update: 78

Source: Yolo-Solano Air Quality Management District
Telephone: 530-757-3650
Last EDR Contact: 01/03/2024
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN PLACER CO DIST: Placer County Air Quality Management District Drycleaner Facility Listing

A listing of drycleaner facility locations, for the Placer County Air Quality Management District.

Date of Government Version: 05/15/2023
Date Data Arrived at EDR: 05/17/2023
Date Made Active in Reports: 08/14/2023
Number of Days to Update: 89

Source: Placer County Air Quality Management District
Telephone: 530-745-2335
Last EDR Contact: 01/03/2024
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN SAN LUIS OB CO DIST: San Luis Obispo County Air Pollution Control District Drycleaner Facility Listing

A listing of drycleaner facility locations, for the San Luis Obispo County Air Pollution Control District.

Date of Government Version: 07/26/2023
Date Data Arrived at EDR: 07/27/2023
Date Made Active in Reports: 10/13/2023
Number of Days to Update: 78

Source: San Luis Obispo County Air Pollution Control District
Telephone: 805-781-5756
Last EDR Contact: 01/03/2024
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN BAY AREA DIST: Bay Area Air Quality Management District Drycleaner Facility Listing
Bay Area Air Quality Management District Drycleaner Facility Listing.

Date of Government Version: 02/20/2019
Date Data Arrived at EDR: 05/30/2019
Date Made Active in Reports: 05/01/2023
Number of Days to Update: 1432
Source: Bay Area Air Quality Management District
Telephone: 415-516-1916
Last EDR Contact: 01/03/2024
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN CALAVERAS CO DIST: Calaveras County Environmental Management Agency Drycleaner Facility Listing
A listing of drycleaner facility locations, for the Calaveras County Environmental Management Agency.

Date of Government Version: 06/17/2019
Date Data Arrived at EDR: 06/19/2019
Date Made Active in Reports: 05/01/2023
Number of Days to Update: 1412
Source: Calaveras County Environmental Management Agency
Telephone: 209-754-6399
Last EDR Contact: 01/03/2024
Next Scheduled EDR Contact: 09/16/2019
Data Release Frequency: Varies

DRYCLEAN GRANT: Grant Recipients List
Assembly Bill 998 (AB 998) established the Non-Toxic Dry Cleaning Incentive Program to provide financial assistance to the dry cleaning industry to switch from systems using perchloroethylene (Perc), an identified toxic air contaminant and potential human carcinogen, to non-toxic and non-smog forming alternatives.

Date of Government Version: 12/31/2020
Date Data Arrived at EDR: 02/04/2021
Date Made Active in Reports: 05/01/2023
Number of Days to Update: 816
Source: California Air Resources Board
Telephone: 916-323-0006
Last EDR Contact: 01/26/2024
Next Scheduled EDR Contact: 05/06/2024
Data Release Frequency: Varies

DRYCLEAN LAKE CO DIST: Lake County Air Quality Management District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the Lake County Air Quality Management District,

Date of Government Version: 04/29/2019
Date Data Arrived at EDR: 05/07/2019
Date Made Active in Reports: 05/01/2023
Number of Days to Update: 1455
Source: Lake County Air Quality Management District
Telephone: 707-263-7000
Last EDR Contact: 01/03/2024
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN NO COAST UNIFIED DIST: North Coast Unified Air Quality Management District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the North Coast Unified Air Quality Management District.

Date of Government Version: 11/30/2016
Date Data Arrived at EDR: 04/19/2019
Date Made Active in Reports: 05/01/2023
Number of Days to Update: 1473
Source: North Coast Unified Air Quality Management District
Telephone: 707-443-3093
Last EDR Contact: 01/03/2024
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN NO SIERRA DIST: Northern Sierra Air Quality Management District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the Northern Sierra Air Quality Management District,

Date of Government Version: 05/07/2019
Date Data Arrived at EDR: 05/07/2019
Date Made Active in Reports: 05/01/2023
Number of Days to Update: 1455
Source: Northern Sierra Air Quality Management District
Telephone: 530-274-9350
Last EDR Contact: 01/03/2024
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN NO SONOMA CO DIST: Norther Sonoma County County Air Pollution Control District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the Northern Sonoma County Air Pollution Control District.,

Date of Government Version: 04/17/2019
Date Data Arrived at EDR: 04/17/2019
Date Made Active in Reports: 05/01/2023
Number of Days to Update: 1475
Source: Santa Barbara County Air Pollution Control District
Telephone: 707-433-5911
Last EDR Contact: 01/03/2024
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN SANTA BARB CO DIST: Santa Barbara County Air Pollution Control District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the Santa Barbara County Air Pollution Control District.

Date of Government Version: 02/19/2019
Date Data Arrived at EDR: 04/17/2019
Date Made Active in Reports: 05/01/2023
Number of Days to Update: 1475
Source: Santa Barbara County Air Pollution Control District
Telephone: 805-961-8867
Last EDR Contact: 01/03/2024
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN TEHAMA CO DIST: Tehama County Air Pollution Control District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the Tehama County Air Pollution Control District.

Date of Government Version: 04/24/2019
Date Data Arrived at EDR: 04/24/2019
Date Made Active in Reports: 05/01/2023
Number of Days to Update: 1468
Source: Tehama County Air Pollution Control District
Telephone: 530-527-3717
Last EDR Contact: 01/03/2024
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN VENTURA CO DIST: Drycleaner Facility Listing
A listing of drycleaner facility locations, for the Ventura County Air Pollution Control District.

Date of Government Version: 04/16/2019
Date Data Arrived at EDR: 04/17/2019
Date Made Active in Reports: 05/01/2023
Number of Days to Update: 1475
Source: Ventura County Air Pollution Control District
Telephone: 805-645-1421
Last EDR Contact: 01/03/2024
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN SHASTA CO DIST: Shasta County Air Quality Management District District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the Shasta County Air Quality Management District.

Date of Government Version: 04/26/2023
Date Data Arrived at EDR: 04/27/2023
Date Made Active in Reports: 07/14/2023
Number of Days to Update: 78
Source: Shasta County Air Quality Management District
Telephone: 530-225-5674
Last EDR Contact: 01/03/2024
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN MONTEREY BAY DIST: Monterey Bay Air Quality Management District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the Monterey Bay Air Quality Management District.

Date of Government Version: 04/25/2023
Date Data Arrived at EDR: 04/26/2023
Date Made Active in Reports: 07/14/2023
Number of Days to Update: 79
Source: Monterey Bay Air Quality Management District
Telephone: 831-647-9411
Last EDR Contact: 01/03/2024
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN MOJAVE DESERT DIST: Mojave Desert Air Quality Management District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the Mojave Desert Air Quality Management District.

Date of Government Version: 04/26/2023
Date Data Arrived at EDR: 04/27/2023
Date Made Active in Reports: 07/14/2023
Number of Days to Update: 78
Source: Mojave Desert Air Quality Management District
Telephone: 760-245-1661
Last EDR Contact: 01/03/2024
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN MENDO CO DIST: Mendocino County Air Quality Management District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the Mendocino County Air Quality Management District.

Date of Government Version: 04/27/2023
Date Data Arrived at EDR: 04/28/2023
Date Made Active in Reports: 07/14/2023
Number of Days to Update: 77
Source: Mendocino County Air Quality Management District
Telephone: 707-463-4354
Last EDR Contact: 01/03/2024
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN IMPERIAL CO DIST: Imperial County Air Pollution Control District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the Imperial County Air Pollution Control District

Date of Government Version: 04/25/2023
Date Data Arrived at EDR: 04/26/2023
Date Made Active in Reports: 07/14/2023
Number of Days to Update: 79

Source: Imperial County Air Pollution Control District
Telephone: 442-265-1800
Last EDR Contact: 01/03/2024
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN EAST KERN DIST: Eastern Kern Air Pollution Control District District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the Eastern Kern Air Pollution Control District.

Date of Government Version: 01/12/2023
Date Data Arrived at EDR: 04/26/2023
Date Made Active in Reports: 07/14/2023
Number of Days to Update: 79

Source: Eastern Kern Air Pollution Control District
Telephone: 661-862-9684
Last EDR Contact: 01/03/2024
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN SACRAMENTO METO DIST: Sacramento Metropolitan Air Quality Management DistrictDrycleaner Facility Listing
A listing of drycleaner facility locations, for the Sacramento Metropolitan Air Quality Management District.

Date of Government Version: 08/15/2023
Date Data Arrived at EDR: 08/17/2023
Date Made Active in Reports: 10/31/2023
Number of Days to Update: 75

Source: Sacramento Metropolitan Air Quality Management District
Telephone: 916-874-3958
Last EDR Contact: 01/03/2024
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN SAN JOAQ VAL DIST: San Joaquin Valley Air Pollution Control District District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the San Joaquin Valley Air Pollution Control District.

Date of Government Version: 05/24/2023
Date Data Arrived at EDR: 05/30/2023
Date Made Active in Reports: 08/21/2023
Number of Days to Update: 83

Source: San Joaquin Valley Air Pollution Control District
Telephone: 559-230-6001
Last EDR Contact: 01/03/2024
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN AVAQMD: Antelope Valley Air Quality Management District Drycleaner Listing
A listing of dry cleaners in the Antelope Valley Air Quality Management District.

Date of Government Version: 08/22/2023
Date Data Arrived at EDR: 08/24/2023
Date Made Active in Reports: 11/07/2023
Number of Days to Update: 75

Source: Antelope Valley Air Quality Management District
Telephone: 661-723-8070
Last EDR Contact: 11/21/2023
Next Scheduled EDR Contact: 03/11/2024
Data Release Frequency: Varies

DRYCLEAN SOUTH COAST: South Coast Air Quality Management District Drycleaner Listing
A listing of dry cleaners in the South Coast Air Quality Management District

Date of Government Version: 08/18/2023
Date Data Arrived at EDR: 08/18/2023
Date Made Active in Reports: 11/01/2023
Number of Days to Update: 75

Source: South Coast Air Quality Management District
Telephone: 909-396-3211
Last EDR Contact: 11/13/2023
Next Scheduled EDR Contact: 03/04/2024
Data Release Frequency: Varies

DRYCLEAN FEATHER RIVER DIST: Feather River Air Quality Management District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the Feather River Air Quality Management District.

Date of Government Version: 03/08/2023
Date Data Arrived at EDR: 03/09/2023
Date Made Active in Reports: 06/05/2023
Number of Days to Update: 88

Source: Feather River Air Quality Management District
Telephone: 530-634-7659
Last EDR Contact: 01/03/2024
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN BUTTE CO DIST: Butte County Air Quality Management DistrictDrycleaner Facility Listing
Butte County Air Quality Management DistrictDrycleaner Facility Listing.

Date of Government Version: 04/25/2023
Date Data Arrived at EDR: 10/18/2023
Date Made Active in Reports: 01/16/2024
Number of Days to Update: 90

Source: Butte County Air Quality Management District
Telephone: 530-332-9400
Last EDR Contact: 01/03/2024
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN SAN DIEGO CO DIST: San Diego County Air Pollution Control District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the San Diego County Air Pollution Control District.

Date of Government Version: 08/08/2023
Date Data Arrived at EDR: 08/09/2023
Date Made Active in Reports: 10/26/2023
Number of Days to Update: 78

Source: San Diego County Air Pollution Control District
Telephone: 858-586-2616
Last EDR Contact: 08/08/2023
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN GLENN CO DIST: Glenn County Air Pollution Control District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the Glenn County Air Pollution Control District.

Date of Government Version: 05/02/2023
Date Data Arrived at EDR: 05/03/2023
Date Made Active in Reports: 07/25/2023
Number of Days to Update: 83

Source: Glenn County Air Pollution Control District
Telephone: 530-934-6500
Last EDR Contact: 01/03/2024
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEANERS: Cleaner Facilities
A list of drycleaner related facilities that have EPA ID numbers. These are facilities with certain SIC codes: power laundries, family and commercial; garment pressing and cleaner's agents; linen supply; coin-operated laundries and cleaning; drycleaning plants, except rugs; carpet and upholster cleaning; industrial launderers; laundry and garment services.

Date of Government Version: 08/31/2023
Date Data Arrived at EDR: 09/08/2023
Date Made Active in Reports: 11/27/2023
Number of Days to Update: 80

Source: Department of Toxic Substance Control
Telephone: 916-327-4498
Last EDR Contact: 12/18/2023
Next Scheduled EDR Contact: 03/11/2024
Data Release Frequency: Annually

DRYCLEAN AMADOR: Amador Air District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the Amador Air Quality Management District

Date of Government Version: 04/26/2023
Date Data Arrived at EDR: 04/27/2023
Date Made Active in Reports: 07/13/2023
Number of Days to Update: 77

Source: Amador Air Quality Management District
Telephone: 209-257-0112
Last EDR Contact: 01/03/2024
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

EMI: Emissions Inventory Data
Toxics and criteria pollutant emissions data collected by the ARB and local air pollution agencies.

Date of Government Version: 12/31/2021
Date Data Arrived at EDR: 06/09/2023
Date Made Active in Reports: 08/30/2023
Number of Days to Update: 82

Source: California Air Resources Board
Telephone: 916-322-2990
Last EDR Contact: 12/14/2023
Next Scheduled EDR Contact: 03/25/2024
Data Release Frequency: Varies

ENF: Enforcement Action Listing
A listing of Water Board Enforcement Actions. Formal is everything except Oral/Verbal Communication, Notice of Violation, Expedited Payment Letter, and Staff Enforcement Letter.

Date of Government Version: 10/16/2023
Date Data Arrived at EDR: 10/17/2023
Date Made Active in Reports: 01/09/2024
Number of Days to Update: 84

Source: State Water Resoruces Control Board
Telephone: 916-445-9379
Last EDR Contact: 01/16/2024
Next Scheduled EDR Contact: 04/29/2024
Data Release Frequency: Varies

Financial Assurance 1: Financial Assurance Information Listing

Financial Assurance information

Date of Government Version: 09/13/2023
Date Data Arrived at EDR: 09/14/2023
Date Made Active in Reports: 09/21/2023
Number of Days to Update: 7

Source: Department of Toxic Substances Control
Telephone: 916-255-3628
Last EDR Contact: 01/11/2024
Next Scheduled EDR Contact: 04/29/2024
Data Release Frequency: Varies

Financial Assurance 2: Financial Assurance Information Listing

A listing of financial assurance information for solid waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 08/03/2023
Date Data Arrived at EDR: 08/16/2023
Date Made Active in Reports: 11/01/2023
Number of Days to Update: 77

Source: California Integrated Waste Management Board
Telephone: 916-341-6066
Last EDR Contact: 02/05/2024
Next Scheduled EDR Contact: 05/20/2024
Data Release Frequency: Varies

ICE: Inspection, Compliance and Enforcement

Contains data pertaining to the Permitted Facilities with Inspections / Enforcements sites tracked in Envirostor.

Date of Government Version: 02/07/2024
Date Data Arrived at EDR: 02/07/2024
Date Made Active in Reports: 02/07/2024
Number of Days to Update: 0

Source: Department of Toxic Subsances Control
Telephone: 877-786-9427
Last EDR Contact: 02/07/2024
Next Scheduled EDR Contact: 02/26/2024
Data Release Frequency: Quarterly

HIST CORTESE: Hazardous Waste & Substance Site List

The sites for the list are designated by the State Water Resource Control Board [LUST], the Integrated Waste Board [SWF/LS], and the Department of Toxic Substances Control [CALSITES]. This listing is no longer updated by the state agency.

Date of Government Version: 04/01/2001
Date Data Arrived at EDR: 01/22/2009
Date Made Active in Reports: 04/08/2009
Number of Days to Update: 76

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 01/22/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

HWP: EnviroStor Permitted Facilities Listing

Detailed information on permitted hazardous waste facilities and corrective action ("cleanups") tracked in EnviroStor.

Date of Government Version: 02/07/2024
Date Data Arrived at EDR: 02/07/2024
Date Made Active in Reports: 02/07/2024
Number of Days to Update: 0

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 02/07/2024
Next Scheduled EDR Contact: 02/26/2024
Data Release Frequency: Quarterly

HWT: Registered Hazardous Waste Transporter Database

A listing of hazardous waste transporters. In California, unless specifically exempted, it is unlawful for any person to transport hazardous wastes unless the person holds a valid registration issued by DTSC. A hazardous waste transporter registration is valid for one year and is assigned a unique registration number.

Date of Government Version: 10/02/2023
Date Data Arrived at EDR: 10/04/2023
Date Made Active in Reports: 12/27/2023
Number of Days to Update: 84

Source: Department of Toxic Substances Control
Telephone: 916-440-7145
Last EDR Contact: 01/03/2024
Next Scheduled EDR Contact: 04/15/2024
Data Release Frequency: Quarterly

HWTS: Hazardous Waste Tracking System

DTSC maintains the Hazardous Waste Tracking System that stores ID number information since the early 1980s and manifest data since 1993. The system collects both manifest copies from the generator and destination facility.

Date of Government Version: 10/26/2023
Date Data Arrived at EDR: 10/27/2023
Date Made Active in Reports: 01/29/2024
Number of Days to Update: 94

Source: Department of Toxic Substances Control
Telephone: 916-324-2444
Last EDR Contact: 12/26/2023
Next Scheduled EDR Contact: 04/15/2024
Data Release Frequency: Varies

HAZNET: Facility and Manifest Data

Facility and Manifest Data. The data is extracted from the copies of hazardous waste manifests received each year by the DTSC. The annual volume of manifests is typically 700,000 - 1,000,000 annually, representing approximately 350,000 - 500,000 shipments. Data are from the manifests submitted without correction, and therefore many contain some invalid values for data elements such as generator ID, TSD ID, waste category, and disposal method. This database begins with calendar year 1993.

Date of Government Version: 12/31/2021
Date Data Arrived at EDR: 07/05/2022
Date Made Active in Reports: 09/19/2022
Number of Days to Update: 76

Source: California Environmental Protection Agency
Telephone: 916-255-1136
Last EDR Contact: 01/03/2024
Next Scheduled EDR Contact: 04/15/2024
Data Release Frequency: Annually

MINES: Mines Site Location Listing

A listing of mine site locations from the Office of Mine Reclamation.

Date of Government Version: 09/05/2023
Date Data Arrived at EDR: 09/06/2023
Date Made Active in Reports: 11/27/2023
Number of Days to Update: 82

Source: Department of Conservation
Telephone: 916-322-1080
Last EDR Contact: 11/29/2023
Next Scheduled EDR Contact: 03/18/2024
Data Release Frequency: Quarterly

MWMP: Medical Waste Management Program Listing

The Medical Waste Management Program (MWMP) ensures the proper handling and disposal of medical waste by permitting and inspecting medical waste Offsite Treatment Facilities (PDF) and Transfer Stations (PDF) throughout the state. MWMP also oversees all Medical Waste Transporters.

Date of Government Version: 08/08/2023
Date Data Arrived at EDR: 08/29/2023
Date Made Active in Reports: 11/13/2023
Number of Days to Update: 76

Source: Department of Public Health
Telephone: 916-558-1784
Last EDR Contact: 11/22/2023
Next Scheduled EDR Contact: 03/11/2024
Data Release Frequency: Varies

NPDES: NPDES Permits Listing

A listing of NPDES permits, including stormwater.

Date of Government Version: 11/06/2023
Date Data Arrived at EDR: 11/07/2023
Date Made Active in Reports: 02/05/2024
Number of Days to Update: 90

Source: State Water Resources Control Board
Telephone: 916-445-9379
Last EDR Contact: 02/06/2024
Next Scheduled EDR Contact: 05/20/2024
Data Release Frequency: Quarterly

PEST LIC: Pesticide Regulation Licenses Listing

A listing of licenses and certificates issued by the Department of Pesticide Regulation. The DPR issues licenses and/or certificates to: Persons and businesses that apply or sell pesticides; Pest control dealers and brokers; Persons who advise on agricultural pesticide applications.

Date of Government Version: 08/28/2023
Date Data Arrived at EDR: 08/29/2023
Date Made Active in Reports: 11/13/2023
Number of Days to Update: 76

Source: Department of Pesticide Regulation
Telephone: 916-445-4038
Last EDR Contact: 11/22/2023
Next Scheduled EDR Contact: 03/11/2024
Data Release Frequency: Quarterly

PROC: Certified Processors Database
A listing of certified processors.

Date of Government Version: 09/05/2023
Date Data Arrived at EDR: 09/06/2023
Date Made Active in Reports: 11/27/2023
Number of Days to Update: 82

Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 11/29/2023
Next Scheduled EDR Contact: 03/18/2024
Data Release Frequency: Quarterly

NOTIFY 65: Proposition 65 Records
Listings of all Proposition 65 incidents reported to counties by the State Water Resources Control Board and the Regional Water Quality Control Board. This database is no longer updated by the reporting agency.

Date of Government Version: 09/07/2023
Date Data Arrived at EDR: 09/08/2023
Date Made Active in Reports: 11/28/2023
Number of Days to Update: 81

Source: State Water Resources Control Board
Telephone: 916-445-3846
Last EDR Contact: 12/05/2023
Next Scheduled EDR Contact: 03/25/2024
Data Release Frequency: No Update Planned

SAN JOSE HAZMAT: Hazardous Material Facilities
Hazardous material facilities, including underground storage tank sites.

Date of Government Version: 11/03/2020
Date Data Arrived at EDR: 11/05/2020
Date Made Active in Reports: 01/26/2021
Number of Days to Update: 82

Source: City of San Jose Fire Department
Telephone: 408-535-7694
Last EDR Contact: 01/29/2024
Next Scheduled EDR Contact: 05/13/2024
Data Release Frequency: Annually

SANTA CRUZ CO SITE MITI: Site Mitigation Listing
Sites may become contaminated with toxic chemicals through illegal dumping or disposal, from leaking underground storage tanks, or through industrial or commercial activities.The goal of the site mitigation program is to protect the public health and the environment while facilitating completion of contaminated site clean-up projects in a timely manner.

Date of Government Version: 12/03/2018
Date Data Arrived at EDR: 06/23/2023
Date Made Active in Reports: 07/13/2023
Number of Days to Update: 20

Source: Santa Cruz Environmental Health Services
Telephone: 831-454-2761
Last EDR Contact: 11/16/2023
Next Scheduled EDR Contact: 02/26/2024
Data Release Frequency: Varies

UIC: UIC Listing
A listing of wells identified as underground injection wells, in the California Oil and Gas Wells database.

Date of Government Version: 09/05/2023
Date Data Arrived at EDR: 09/06/2023
Date Made Active in Reports: 11/28/2023
Number of Days to Update: 83

Source: Deaprtment of Conservation
Telephone: 916-445-2408
Last EDR Contact: 11/29/2023
Next Scheduled EDR Contact: 03/18/2024
Data Release Frequency: Varies

UIC GEO: Underground Injection Control Sites (GEOTRACKER)
Underground control injection sites

Date of Government Version: 09/05/2023
Date Data Arrived at EDR: 09/06/2023
Date Made Active in Reports: 11/27/2023
Number of Days to Update: 82

Source: State Water Resource Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/05/2023
Next Scheduled EDR Contact: 03/18/2024
Data Release Frequency: Varies

WASTEWATER PITS: Oil Wastewater Pits Listing

Water officials discovered that oil producers have been dumping chemical-laden wastewater into hundreds of unlined pits that are operating without proper permits. Inspections completed by the Central Valley Regional Water Quality Control Board revealed the existence of previously unidentified waste sites. The water boards review found that more than one-third of the region's active disposal pits are operating without permission.

Date of Government Version: 02/11/2021
Date Data Arrived at EDR: 07/01/2021
Date Made Active in Reports: 09/29/2021
Number of Days to Update: 90

Source: RWQCB, Central Valley Region
Telephone: 559-445-5577
Last EDR Contact: 01/05/2024
Next Scheduled EDR Contact: 04/15/2024
Data Release Frequency: Varies

WDS: Waste Discharge System

Sites which have been issued waste discharge requirements.

Date of Government Version: 06/19/2007
Date Data Arrived at EDR: 06/20/2007
Date Made Active in Reports: 06/29/2007
Number of Days to Update: 9

Source: State Water Resources Control Board
Telephone: 916-341-5227
Last EDR Contact: 11/10/2023
Next Scheduled EDR Contact: 02/26/2024
Data Release Frequency: No Update Planned

WIP: Well Investigation Program Case List

Well Investigation Program case in the San Gabriel and San Fernando Valley area.

Date of Government Version: 07/03/2009
Date Data Arrived at EDR: 07/21/2009
Date Made Active in Reports: 08/03/2009
Number of Days to Update: 13

Source: Los Angeles Water Quality Control Board
Telephone: 213-576-6726
Last EDR Contact: 12/12/2023
Next Scheduled EDR Contact: 04/01/2024
Data Release Frequency: No Update Planned

MILITARY PRIV SITES: Military Privatized Sites (GEOTRACKER)

Military privatized sites

Date of Government Version: 09/05/2023
Date Data Arrived at EDR: 09/06/2023
Date Made Active in Reports: 11/27/2023
Number of Days to Update: 82

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/05/2023
Next Scheduled EDR Contact: 03/18/2024
Data Release Frequency: Varies

PROJECT: Project Sites (GEOTRACKER)

Projects sites

Date of Government Version: 09/05/2023
Date Data Arrived at EDR: 09/06/2023
Date Made Active in Reports: 11/27/2023
Number of Days to Update: 82

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/05/2023
Next Scheduled EDR Contact: 03/18/2024
Data Release Frequency: Varies

WDR: Waste Discharge Requirements Listing

In general, the Waste Discharge Requirements (WDRs) Program (sometimes also referred to as the "Non Chapter 15 (Non 15) Program") regulates point discharges that are exempt pursuant to Subsection 20090 of Title 27 and not subject to the Federal Water Pollution Control Act. Exemptions from Title 27 may be granted for nine categories of discharges (e.g., sewage, wastewater, etc.) that meet, and continue to meet, the preconditions listed for each specific exemption. The scope of the WDRs Program also includes the discharge of wastes classified as inert, pursuant to section 20230 of Title 27.

Date of Government Version: 09/05/2023
Date Data Arrived at EDR: 09/06/2023
Date Made Active in Reports: 11/28/2023
Number of Days to Update: 83

Source: State Water Resources Control Board
Telephone: 916-341-5810
Last EDR Contact: 11/29/2023
Next Scheduled EDR Contact: 03/18/2024
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

CIWQS: California Integrated Water Quality System

The California Integrated Water Quality System (CIWQS) is a computer system used by the State and Regional Water Quality Control Boards to track information about places of environmental interest, manage permits and other orders, track inspections, and manage violations and enforcement activities.

Date of Government Version: 08/28/2023
Date Data Arrived at EDR: 08/29/2023
Date Made Active in Reports: 11/13/2023
Number of Days to Update: 76

Source: State Water Resources Control Board
Telephone: 866-794-4977
Last EDR Contact: 11/22/2023
Next Scheduled EDR Contact: 03/11/2024
Data Release Frequency: Varies

CERS: CalEPA Regulated Site Portal Data

The CalEPA Regulated Site Portal database combines data about environmentally regulated sites and facilities in California into a single database. It combines data from a variety of state and federal databases, and provides an overview of regulated activities across the spectrum of environmental programs for any given location in California. These activities include hazardous materials and waste, state and federal cleanups, impacted ground and surface waters, and toxic materials

Date of Government Version: 10/16/2023
Date Data Arrived at EDR: 10/17/2023
Date Made Active in Reports: 01/09/2024
Number of Days to Update: 84

Source: California Environmental Protection Agency
Telephone: 916-323-2514
Last EDR Contact: 01/16/2024
Next Scheduled EDR Contact: 04/29/2024
Data Release Frequency: Varies

NON-CASE INFO: Non-Case Information Sites (GEOTRACKER)

Non-Case Information sites

Date of Government Version: 09/05/2023
Date Data Arrived at EDR: 09/06/2023
Date Made Active in Reports: 11/27/2023
Number of Days to Update: 82

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/05/2023
Next Scheduled EDR Contact: 03/18/2024
Data Release Frequency: Varies

OTHER OIL GAS: Other Oil & Gas Projects Sites (GEOTRACKER)

Other Oil & Gas Projects sites

Date of Government Version: 09/05/2023
Date Data Arrived at EDR: 09/06/2023
Date Made Active in Reports: 11/27/2023
Number of Days to Update: 82

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/05/2023
Next Scheduled EDR Contact: 03/18/2024
Data Release Frequency: Varies

PROD WATER PONDS: Produced Water Ponds Sites (GEOTRACKER)

Produced water ponds sites

Date of Government Version: 09/05/2023
Date Data Arrived at EDR: 09/06/2023
Date Made Active in Reports: 11/27/2023
Number of Days to Update: 82

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/05/2023
Next Scheduled EDR Contact: 03/18/2024
Data Release Frequency: Varies

SAMPLING POINT: Sampling Point ? Public Sites (GEOTRACKER)

Sampling point - public sites

Date of Government Version: 09/05/2023
Date Data Arrived at EDR: 09/06/2023
Date Made Active in Reports: 11/27/2023
Number of Days to Update: 82

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/05/2023
Next Scheduled EDR Contact: 03/18/2024
Data Release Frequency: Varies

WELL STIM PROJ: Well Stimulation Project (GEOTRACKER)

Includes areas of groundwater monitoring plans, a depiction of the monitoring network, and the facilities, boundaries, and subsurface characteristics of the oilfield and the features (oil and gas wells, produced water ponds, UIC wells, water supply wells, etc?) being monitored

Date of Government Version: 09/05/2023
Date Data Arrived at EDR: 09/06/2023
Date Made Active in Reports: 11/27/2023
Number of Days to Update: 82

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/05/2023
Next Scheduled EDR Contact: 03/18/2024
Data Release Frequency: Varies

UST FINDER RELEASE: UST Finder Releases Database

US EPA's UST Finder data is a national composite of leaking underground storage tanks. This data contains information about, and locations of, leaking underground storage tanks. Data was collected from state sources and standardized into a national profile by EPA's Office of Underground Storage Tanks, Office of Research and Development, and the Association of State and Territorial Solid Waste Management Officials.

Date of Government Version: 06/08/2023
Date Data Arrived at EDR: 10/31/2023
Date Made Active in Reports: 01/18/2024
Number of Days to Update: 79

Source: Environmental Protecton Agency
Telephone: 202-564-0394
Last EDR Contact: 10/31/2023
Next Scheduled EDR Contact: 02/19/2024
Data Release Frequency: Semi-Annually

UST FINDER: UST Finder Database

EPA developed UST Finder, a web map application containing a comprehensive, state-sourced national map of underground storage tank (UST) and leaking UST (LUST) data. It provides the attributes and locations of active and closed USTs, UST facilities, and LUST sites from states and from Tribal lands and US territories . UST Finder contains information about proximity of UST facilities and LUST sites to: surface and groundwater public drinking water protection areas; estimated number of private domestic wells and number of people living nearby; and flooding and wildfires.

Date of Government Version: 06/08/2023
Date Data Arrived at EDR: 10/04/2023
Date Made Active in Reports: 01/18/2024
Number of Days to Update: 106

Source: Environmental Protection Agency
Telephone: 202-564-0394
Last EDR Contact: 11/09/2023
Next Scheduled EDR Contact: 02/19/2024
Data Release Frequency: Varies

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP: EDR Proprietary Manufactured Gas Plants

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

EDR Hist Auto: EDR Exclusive Historical Auto Stations

EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR Hist Cleaner: EDR Exclusive Historical Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA LF: Recovered Government Archive Solid Waste Facilities List

The EDR Recovered Government Archive Landfill database provides a list of landfills derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Resources Recycling and Recovery in California.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 01/13/2014
Number of Days to Update: 196

Source: Department of Resources Recycling and Recovery
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

RGA LUST: Recovered Government Archive Leaking Underground Storage Tank

The EDR Recovered Government Archive Leaking Underground Storage Tank database provides a list of LUST incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the State Water Resources Control Board in California.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 12/30/2013
Number of Days to Update: 182

Source: State Water Resources Control Board
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

COUNTY RECORDS

ALAMEDA COUNTY:

CS ALAMEDA: Contaminated Sites

A listing of contaminated sites overseen by the Toxic Release Program (oil and groundwater contamination from chemical releases and spills) and the Leaking Underground Storage Tank Program (soil and ground water contamination from leaking petroleum USTs).

Date of Government Version: 01/09/2019
Date Data Arrived at EDR: 01/11/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 53

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 12/26/2023
Next Scheduled EDR Contact: 04/15/2024
Data Release Frequency: Semi-Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

UST ALAMEDA: Underground Tanks
Underground storage tank sites located in Alameda county.

Date of Government Version: 09/27/2023
Date Data Arrived at EDR: 09/28/2023
Date Made Active in Reports: 12/18/2023
Number of Days to Update: 81

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 12/26/2023
Next Scheduled EDR Contact: 04/15/2024
Data Release Frequency: Semi-Annually

AMADOR COUNTY:

CUPA AMADOR: CUPA Facility List
Cupa Facility List

Date of Government Version: 04/27/2023
Date Data Arrived at EDR: 04/27/2023
Date Made Active in Reports: 07/13/2023
Number of Days to Update: 77

Source: Amador County Environmental Health
Telephone: 209-223-6439
Last EDR Contact: 04/26/2023
Next Scheduled EDR Contact: 05/13/2024
Data Release Frequency: Varies

BUTTE COUNTY:

CUPA BUTTE: CUPA Facility Listing
Cupa facility list.

Date of Government Version: 04/21/2017
Date Data Arrived at EDR: 04/25/2017
Date Made Active in Reports: 08/09/2017
Number of Days to Update: 106

Source: Public Health Department
Telephone: 530-538-7149
Last EDR Contact: 12/26/2023
Next Scheduled EDR Contact: 04/15/2024
Data Release Frequency: No Update Planned

CALVERAS COUNTY:

CUPA CALVERAS: CUPA Facility Listing
Cupa Facility Listing

Date of Government Version: 09/12/2023
Date Data Arrived at EDR: 09/13/2023
Date Made Active in Reports: 12/04/2023
Number of Days to Update: 82

Source: Calveras County Environmental Health
Telephone: 209-754-6399
Last EDR Contact: 12/12/2023
Next Scheduled EDR Contact: 04/01/2024
Data Release Frequency: Quarterly

COLUSA COUNTY:

CUPA COLUSA: CUPA Facility List
Cupa facility list.

Date of Government Version: 04/06/2020
Date Data Arrived at EDR: 04/23/2020
Date Made Active in Reports: 07/10/2020
Number of Days to Update: 78

Source: Health & Human Services
Telephone: 530-458-0396
Last EDR Contact: 01/29/2024
Next Scheduled EDR Contact: 05/13/2024
Data Release Frequency: Semi-Annually

CONTRA COSTA COUNTY:

SL CONTRA COSTA: Site List
List includes sites from the underground tank, hazardous waste generator and business plan/2185 programs.

Date of Government Version: 10/20/2023
Date Data Arrived at EDR: 10/24/2023
Date Made Active in Reports: 01/16/2024
Number of Days to Update: 84

Source: Contra Costa Health Services Department
Telephone: 925-646-2286
Last EDR Contact: 01/22/2024
Next Scheduled EDR Contact: 05/06/2024
Data Release Frequency: Semi-Annually

DEL NORTE COUNTY:

CUPA DEL NORTE: CUPA Facility List
Cupa Facility list

Date of Government Version: 10/24/2023
Date Data Arrived at EDR: 10/25/2023
Date Made Active in Reports: 01/16/2024
Number of Days to Update: 83

Source: Del Norte County Environmental Health Division
Telephone: 707-465-0426
Last EDR Contact: 02/05/2024
Next Scheduled EDR Contact: 05/06/2024
Data Release Frequency: Varies

EL DORADO COUNTY:

CUPA EL DORADO: CUPA Facility List
CUPA facility list.

Date of Government Version: 08/08/2022
Date Data Arrived at EDR: 08/09/2022
Date Made Active in Reports: 09/01/2022
Number of Days to Update: 23

Source: El Dorado County Environmental Management Department
Telephone: 530-621-6623
Last EDR Contact: 01/22/2024
Next Scheduled EDR Contact: 05/06/2024
Data Release Frequency: Varies

FRESNO COUNTY:

CUPA FRESNO: CUPA Resources List
Certified Unified Program Agency. CUPA's are responsible for implementing a unified hazardous materials and hazardous waste management regulatory program. The agency provides oversight of businesses that deal with hazardous materials, operate underground storage tanks or aboveground storage tanks.

Date of Government Version: 06/28/2021
Date Data Arrived at EDR: 12/21/2021
Date Made Active in Reports: 03/03/2022
Number of Days to Update: 72

Source: Dept. of Community Health
Telephone: 559-445-3271
Last EDR Contact: 12/26/2023
Next Scheduled EDR Contact: 04/08/2024
Data Release Frequency: Semi-Annually

GLENN COUNTY:

CUPA GLENN: CUPA Facility List
Cupa facility list

Date of Government Version: 01/22/2018
Date Data Arrived at EDR: 01/24/2018
Date Made Active in Reports: 03/14/2018
Number of Days to Update: 49

Source: Glenn County Air Pollution Control District
Telephone: 830-934-6500
Last EDR Contact: 01/11/2024
Next Scheduled EDR Contact: 04/29/2024
Data Release Frequency: No Update Planned

HUMBOLDT COUNTY:

CUPA HUMBOLDT: CUPA Facility List
CUPA facility list.

Date of Government Version: 08/12/2021
Date Data Arrived at EDR: 08/12/2021
Date Made Active in Reports: 11/08/2021
Number of Days to Update: 88

Source: Humboldt County Environmental Health
Telephone: N/A
Last EDR Contact: 11/08/2023
Next Scheduled EDR Contact: 02/26/2024
Data Release Frequency: Semi-Annually

IMPERIAL COUNTY:

CUPA IMPERIAL: CUPA Facility List
Cupa facility list.

Date of Government Version: 10/10/2023
Date Data Arrived at EDR: 10/11/2023
Date Made Active in Reports: 01/04/2024
Number of Days to Update: 85

Source: San Diego Border Field Office
Telephone: 760-339-2777
Last EDR Contact: 01/11/2024
Next Scheduled EDR Contact: 04/29/2024
Data Release Frequency: Varies

INYO COUNTY:

CUPA INYO: CUPA Facility List
Cupa facility list.

Date of Government Version: 04/02/2018
Date Data Arrived at EDR: 04/03/2018
Date Made Active in Reports: 06/14/2018
Number of Days to Update: 72

Source: Inyo County Environmental Health Services
Telephone: 760-878-0238
Last EDR Contact: 11/08/2023
Next Scheduled EDR Contact: 02/26/2024
Data Release Frequency: Varies

KERN COUNTY:

CUPA KERN: CUPA Facility List
A listing of sites included in the Kern County Hazardous Material Business Plan.

Date of Government Version: 10/30/2023
Date Data Arrived at EDR: 11/01/2023
Date Made Active in Reports: 01/23/2024
Number of Days to Update: 83

Source: Kern County Public Health
Telephone: 661-321-3000
Last EDR Contact: 01/29/2024
Next Scheduled EDR Contact: 05/13/2024
Data Release Frequency: Varies

UST KERN: Underground Storage Tank Sites & Tank Listing
Kern County Sites and Tanks Listing.

Date of Government Version: 10/30/2023
Date Data Arrived at EDR: 11/01/2023
Date Made Active in Reports: 01/23/2024
Number of Days to Update: 83

Source: Kern County Environment Health Services Department
Telephone: 661-862-8700
Last EDR Contact: 01/29/2024
Next Scheduled EDR Contact: 05/13/2024
Data Release Frequency: Quarterly

KINGS COUNTY:

CUPA KINGS: CUPA Facility List
A listing of sites included in the county's Certified Unified Program Agency database. California's Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

Date of Government Version: 12/03/2020
Date Data Arrived at EDR: 01/26/2021
Date Made Active in Reports: 04/14/2021
Number of Days to Update: 78

Source: Kings County Department of Public Health
Telephone: 559-584-1411
Last EDR Contact: 11/08/2023
Next Scheduled EDR Contact: 02/26/2024
Data Release Frequency: Varies

LAKE COUNTY:

CUPA LAKE: CUPA Facility List
Cupa facility list

Date of Government Version: 10/27/2023
Date Data Arrived at EDR: 11/01/2023
Date Made Active in Reports: 11/21/2023
Number of Days to Update: 20

Source: Lake County Environmental Health
Telephone: 707-263-1164
Last EDR Contact: 01/09/2024
Next Scheduled EDR Contact: 04/22/2024
Data Release Frequency: Varies

LASSEN COUNTY:

CUPA LASSEN: CUPA Facility List
Cupa facility list

Date of Government Version: 07/31/2020
Date Data Arrived at EDR: 08/21/2020
Date Made Active in Reports: 11/09/2020
Number of Days to Update: 80

Source: Lassen County Environmental Health
Telephone: 530-251-8528
Last EDR Contact: 01/11/2024
Next Scheduled EDR Contact: 04/29/2024
Data Release Frequency: Varies

LOS ANGELES COUNTY:

AOCONCERN: Key Areas of Concerns in Los Angeles County
San Gabriel Valley areas where VOC contamination is at or above the MCL as designated by region 9 EPA office. Date of Government Version: 3/30/2009 Exide Site area is a cleanup plan of lead-impacted soil surrounding the former Exide Facility as designated by the DTSC. Date of Government Version: 7/17/2017

Date of Government Version: 03/30/2009
Date Data Arrived at EDR: 03/31/2009
Date Made Active in Reports: 10/23/2009
Number of Days to Update: 206

Source: N/A
Telephone: N/A
Last EDR Contact: 12/05/2023
Next Scheduled EDR Contact: 03/25/2024
Data Release Frequency: No Update Planned

HMS LOS ANGELES: HMS: Street Number List
Industrial Waste and Underground Storage Tank Sites.

Date of Government Version: 10/01/2023
Date Data Arrived at EDR: 10/06/2023
Date Made Active in Reports: 12/27/2023
Number of Days to Update: 82

Source: Department of Public Works
Telephone: 626-458-3517
Last EDR Contact: 01/11/2024
Next Scheduled EDR Contact: 04/15/2024
Data Release Frequency: Semi-Annually

LF LOS ANGELES: List of Solid Waste Facilities
Solid Waste Facilities in Los Angeles County.

Date of Government Version: 10/09/2023
Date Data Arrived at EDR: 10/09/2023
Date Made Active in Reports: 12/27/2023
Number of Days to Update: 79

Source: La County Department of Public Works
Telephone: 818-458-5185
Last EDR Contact: 01/10/2024
Next Scheduled EDR Contact: 04/22/2024
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

LF LOS ANGELES CITY: City of Los Angeles Landfills
Landfills owned and maintained by the City of Los Angeles.

Date of Government Version: 12/31/2022
Date Data Arrived at EDR: 01/12/2023
Date Made Active in Reports: 03/29/2023
Number of Days to Update: 76

Source: Engineering & Construction Division
Telephone: 213-473-7869
Last EDR Contact: 01/04/2024
Next Scheduled EDR Contact: 04/22/2024
Data Release Frequency: Varies

LOS ANGELES AST: Active & Inactive AST Inventory
A listing of active & inactive above ground petroleum storage tank site locations, located in the City of Los Angeles.

Date of Government Version: 06/01/2019
Date Data Arrived at EDR: 06/25/2019
Date Made Active in Reports: 08/22/2019
Number of Days to Update: 58

Source: Los Angeles Fire Department
Telephone: 213-978-3800
Last EDR Contact: 12/13/2023
Next Scheduled EDR Contact: 04/01/2024
Data Release Frequency: Varies

LOS ANGELES CO LF METHANE: Methane Producing Landfills
This data was created on April 30, 2012 to represent known disposal sites in Los Angeles County that may produce and emanate methane gas. The shapefile contains disposal sites within Los Angeles County that once accepted degradable refuse material. Information used to create this data was extracted from a landfill survey performed by County Engineers (Major Waste System Map, 1973) as well as historical records from CalRecycle, Regional Water Quality Control Board, and Los Angeles County Department of Public Health

Date of Government Version: 04/13/2023
Date Data Arrived at EDR: 07/13/2023
Date Made Active in Reports: 09/27/2023
Number of Days to Update: 76

Source: Los Angeles County Department of Public Works
Telephone: 626-458-6973
Last EDR Contact: 01/11/2024
Next Scheduled EDR Contact: 04/22/2024
Data Release Frequency: No Update Planned

LOS ANGELES HM: Active & Inactive Hazardous Materials Inventory
A listing of active & inactive hazardous materials facility locations, located in the City of Los Angeles.

Date of Government Version: 12/01/2023
Date Data Arrived at EDR: 12/13/2023
Date Made Active in Reports: 12/14/2023
Number of Days to Update: 1

Source: Los Angeles Fire Department
Telephone: 213-978-3800
Last EDR Contact: 12/13/2023
Next Scheduled EDR Contact: 04/01/2024
Data Release Frequency: Varies

LOS ANGELES UST: Active & Inactive UST Inventory
A listing of active & inactive underground storage tank site locations and underground storage tank historical sites, located in the City of Los Angeles.

Date of Government Version: 09/01/2023
Date Data Arrived at EDR: 09/20/2023
Date Made Active in Reports: 12/08/2023
Number of Days to Update: 79

Source: Los Angeles Fire Department
Telephone: 213-978-3800
Last EDR Contact: 12/13/2023
Next Scheduled EDR Contact: 04/01/2024
Data Release Frequency: Varies

SITE MIT LOS ANGELES: Site Mitigation List
Industrial sites that have had some sort of spill or complaint.

Date of Government Version: 07/11/2023
Date Data Arrived at EDR: 10/17/2023
Date Made Active in Reports: 01/09/2024
Number of Days to Update: 84

Source: Community Health Services
Telephone: 323-890-7806
Last EDR Contact: 01/19/2024
Next Scheduled EDR Contact: 04/29/2024
Data Release Frequency: Annually

UST EL SEGUNDO: City of El Segundo Underground Storage Tank
Underground storage tank sites located in El Segundo city.

Date of Government Version: 01/21/2017
Date Data Arrived at EDR: 04/19/2017
Date Made Active in Reports: 05/10/2017
Number of Days to Update: 21

Source: City of El Segundo Fire Department
Telephone: 310-524-2236
Last EDR Contact: 01/04/2024
Next Scheduled EDR Contact: 04/22/2024
Data Release Frequency: No Update Planned

UST LONG BEACH: City of Long Beach Underground Storage Tank
Underground storage tank sites located in the city of Long Beach.

Date of Government Version: 04/22/2019
Date Data Arrived at EDR: 04/23/2019
Date Made Active in Reports: 06/27/2019
Number of Days to Update: 65

Source: City of Long Beach Fire Department
Telephone: 562-570-2563
Last EDR Contact: 01/11/2024
Next Scheduled EDR Contact: 04/29/2024
Data Release Frequency: Varies

UST TORRANCE: City of Torrance Underground Storage Tank
Underground storage tank sites located in the city of Torrance.

Date of Government Version: 04/12/2023
Date Data Arrived at EDR: 05/02/2023
Date Made Active in Reports: 06/13/2023
Number of Days to Update: 42

Source: City of Torrance Fire Department
Telephone: 310-618-2973
Last EDR Contact: 01/11/2024
Next Scheduled EDR Contact: 04/29/2024
Data Release Frequency: Semi-Annually

MADERA COUNTY:

CUPA MADERA: CUPA Facility List
A listing of sites included in the county's Certified Unified Program Agency database. California's Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

Date of Government Version: 08/10/2020
Date Data Arrived at EDR: 08/12/2020
Date Made Active in Reports: 10/23/2020
Number of Days to Update: 72

Source: Madera County Environmental Health
Telephone: 559-675-7823
Last EDR Contact: 11/08/2023
Next Scheduled EDR Contact: 02/26/2024
Data Release Frequency: Varies

MARIN COUNTY:

UST MARIN: Underground Storage Tank Sites
Currently permitted USTs in Marin County.

Date of Government Version: 09/26/2018
Date Data Arrived at EDR: 10/04/2018
Date Made Active in Reports: 11/02/2018
Number of Days to Update: 29

Source: Public Works Department Waste Management
Telephone: 415-473-6647
Last EDR Contact: 12/18/2023
Next Scheduled EDR Contact: 04/08/2024
Data Release Frequency: Semi-Annually

MENDOCINO COUNTY:

UST MENDOCINO: Mendocino County UST Database
A listing of underground storage tank locations in Mendocino County.

Date of Government Version: 09/22/2021
Date Data Arrived at EDR: 11/18/2021
Date Made Active in Reports: 11/22/2021
Number of Days to Update: 4

Source: Department of Public Health
Telephone: 707-463-4466
Last EDR Contact: 11/13/2023
Next Scheduled EDR Contact: 03/04/2024
Data Release Frequency: Annually

MERCED COUNTY:

CUPA MERCED: CUPA Facility List
CUPA facility list.

Date of Government Version: 07/25/2023
Date Data Arrived at EDR: 08/03/2023
Date Made Active in Reports: 10/19/2023
Number of Days to Update: 77

Source: Merced County Environmental Health
Telephone: 209-381-1094
Last EDR Contact: 11/08/2023
Next Scheduled EDR Contact: 02/26/2024
Data Release Frequency: Varies

MONO COUNTY:

CUPA MONO: CUPA Facility List
CUPA Facility List

Date of Government Version: 02/22/2021
Date Data Arrived at EDR: 03/02/2021
Date Made Active in Reports: 05/19/2021
Number of Days to Update: 78

Source: Mono County Health Department
Telephone: 760-932-5580
Last EDR Contact: 11/13/2023
Next Scheduled EDR Contact: 03/04/2024
Data Release Frequency: Varies

MONTEREY COUNTY:

CUPA MONTEREY: CUPA Facility Listing
CUPA Program listing from the Environmental Health Division.

Date of Government Version: 10/04/2021
Date Data Arrived at EDR: 10/06/2021
Date Made Active in Reports: 12/29/2021
Number of Days to Update: 84

Source: Monterey County Health Department
Telephone: 831-796-1297
Last EDR Contact: 01/22/2024
Next Scheduled EDR Contact: 04/08/2024
Data Release Frequency: Varies

NAPA COUNTY:

LUST NAPA: Sites With Reported Contamination
A listing of leaking underground storage tank sites located in Napa county.

Date of Government Version: 01/09/2017
Date Data Arrived at EDR: 01/11/2017
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 50

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 11/13/2023
Next Scheduled EDR Contact: 03/04/2024
Data Release Frequency: No Update Planned

UST NAPA: Closed and Operating Underground Storage Tank Sites
Underground storage tank sites located in Napa county.

Date of Government Version: 09/05/2019
Date Data Arrived at EDR: 09/09/2019
Date Made Active in Reports: 10/31/2019
Number of Days to Update: 52

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 11/13/2023
Next Scheduled EDR Contact: 03/04/2024
Data Release Frequency: No Update Planned

NEVADA COUNTY:

CUPA NEVADA: CUPA Facility List
CUPA facility list.

Date of Government Version: 10/31/2023
Date Data Arrived at EDR: 11/03/2023
Date Made Active in Reports: 01/23/2024
Number of Days to Update: 81

Source: Community Development Agency
Telephone: 530-265-1467
Last EDR Contact: 01/22/2024
Next Scheduled EDR Contact: 05/06/2024
Data Release Frequency: Varies

ORANGE COUNTY:

IND_SITE ORANGE: List of Industrial Site Cleanups
Petroleum and non-petroleum spills.

Date of Government Version: 10/10/2023
Date Data Arrived at EDR: 11/01/2023
Date Made Active in Reports: 01/23/2024
Number of Days to Update: 83

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 02/02/2024
Next Scheduled EDR Contact: 05/13/2024
Data Release Frequency: Annually

LUST ORANGE: List of Underground Storage Tank Cleanups
Orange County Underground Storage Tank Cleanups (LUST).

Date of Government Version: 10/10/2023
Date Data Arrived at EDR: 11/01/2023
Date Made Active in Reports: 01/23/2024
Number of Days to Update: 83

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 02/02/2024
Next Scheduled EDR Contact: 05/13/2024
Data Release Frequency: Quarterly

UST ORANGE: List of Underground Storage Tank Facilities
Orange County Underground Storage Tank Facilities (UST).

Date of Government Version: 10/10/2023
Date Data Arrived at EDR: 11/01/2023
Date Made Active in Reports: 01/23/2024
Number of Days to Update: 83

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 02/02/2024
Next Scheduled EDR Contact: 05/13/2024
Data Release Frequency: Quarterly

PLACER COUNTY:

MS PLACER: Master List of Facilities
List includes aboveground tanks, underground tanks and cleanup sites.

Date of Government Version: 11/09/2023
Date Data Arrived at EDR: 11/09/2023
Date Made Active in Reports: 11/21/2023
Number of Days to Update: 12

Source: Placer County Health and Human Services
Telephone: 530-745-2363
Last EDR Contact: 11/01/2023
Next Scheduled EDR Contact: 03/11/2024
Data Release Frequency: Semi-Annually

PLUMAS COUNTY:

CUPA PLUMAS: CUPA Facility List
Plumas County CUPA Program facilities.

Date of Government Version: 03/31/2019
Date Data Arrived at EDR: 04/23/2019
Date Made Active in Reports: 06/26/2019
Number of Days to Update: 64

Source: Plumas County Environmental Health
Telephone: 530-283-6355
Last EDR Contact: 01/11/2024
Next Scheduled EDR Contact: 04/29/2024
Data Release Frequency: Varies

RIVERSIDE COUNTY:

LUST RIVERSIDE: Listing of Underground Tank Cleanup Sites
Riverside County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 09/29/2023
Date Data Arrived at EDR: 10/04/2023
Date Made Active in Reports: 12/27/2023
Number of Days to Update: 84
Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 12/05/2023
Next Scheduled EDR Contact: 03/25/2024
Data Release Frequency: Quarterly

UST RIVERSIDE: Underground Storage Tank Tank List
Underground storage tank sites located in Riverside county.

Date of Government Version: 09/29/2023
Date Data Arrived at EDR: 10/04/2023
Date Made Active in Reports: 12/27/2023
Number of Days to Update: 84
Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 12/05/2023
Next Scheduled EDR Contact: 03/25/2024
Data Release Frequency: Quarterly

SACRAMENTO COUNTY:

CS SACRAMENTO: Toxic Site Clean-Up List
List of sites where unauthorized releases of potentially hazardous materials have occurred.

Date of Government Version: 11/07/2022
Date Data Arrived at EDR: 12/21/2022
Date Made Active in Reports: 03/16/2023
Number of Days to Update: 85
Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 12/18/2023
Next Scheduled EDR Contact: 04/08/2024
Data Release Frequency: Quarterly

ML SACRAMENTO: Master Hazardous Materials Facility List
Any business that has hazardous materials on site - hazardous material storage sites, underground storage tanks, waste generators.

Date of Government Version: 11/07/2022
Date Data Arrived at EDR: 12/09/2022
Date Made Active in Reports: 03/01/2023
Number of Days to Update: 82
Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 12/18/2023
Next Scheduled EDR Contact: 04/08/2024
Data Release Frequency: Quarterly

SAN BENITO COUNTY:

CUPA SAN BENITO: CUPA Facility List
Cupa facility list

Date of Government Version: 01/17/2024
Date Data Arrived at EDR: 01/18/2024
Date Made Active in Reports: 01/26/2024
Number of Days to Update: 8
Source: San Benito County Environmental Health
Telephone: N/A
Last EDR Contact: 01/11/2024
Next Scheduled EDR Contact: 05/13/2024
Data Release Frequency: Varies

SAN BERNARDINO COUNTY:

PERMITS SAN BERNARDINO: Hazardous Material Permits
This listing includes underground storage tanks, medical waste handlers/generators, hazardous materials handlers, hazardous waste generators, and waste oil generators/handlers.

Date of Government Version: 11/08/2023
Date Data Arrived at EDR: 11/09/2023
Date Made Active in Reports: 02/07/2024
Number of Days to Update: 90

Source: San Bernardino County Fire Department Hazardous Materials Division
Telephone: 909-387-3041
Last EDR Contact: 01/29/2024
Next Scheduled EDR Contact: 05/12/2024
Data Release Frequency: Quarterly

SAN DIEGO COUNTY:

HMMD SAN DIEGO: Hazardous Materials Management Division Database

The database includes: HE58 - This report contains the business name, site address, business phone number, establishment 'H' permit number, type of permit, and the business status. HE17 - In addition to providing the same information provided in the HE58 listing, HE17 provides inspection dates, violations received by the establishment, hazardous waste generated, the quantity, method of storage, treatment/disposal of waste and the hauler, and information on underground storage tanks. Unauthorized Release List - Includes a summary of environmental contamination cases in San Diego County (underground tank cases, non-tank cases, groundwater contamination, and soil contamination are included.)

Date of Government Version: 08/28/2023
Date Data Arrived at EDR: 08/29/2023
Date Made Active in Reports: 11/13/2023
Number of Days to Update: 76

Source: Hazardous Materials Management Division
Telephone: 619-338-2268
Last EDR Contact: 11/27/2023
Next Scheduled EDR Contact: 03/11/2024
Data Release Frequency: Quarterly

LF SAN DIEGO: Solid Waste Facilities

San Diego County Solid Waste Facilities.

Date of Government Version: 04/04/2023
Date Data Arrived at EDR: 04/05/2023
Date Made Active in Reports: 06/27/2023
Number of Days to Update: 83

Source: Department of Health Services
Telephone: 619-338-2209
Last EDR Contact: 01/11/2024
Next Scheduled EDR Contact: 04/29/2024
Data Release Frequency: Varies

SAN DIEGO CO LOP: Local Oversight Program Listing

A listing of all LOP release sites that are or were under the County of San Diego's jurisdiction. Included are closed or transferred cases, open cases, and cases that did not have a case type indicated. The cases without a case type are mostly complaints; however, some of them could be LOP cases.

Date of Government Version: 07/22/2021
Date Data Arrived at EDR: 10/19/2021
Date Made Active in Reports: 01/13/2022
Number of Days to Update: 86

Source: Department of Environmental Health
Telephone: 858-505-6874
Last EDR Contact: 01/11/2024
Next Scheduled EDR Contact: 04/29/2024
Data Release Frequency: Varies

SAN DIEGO CO SAM: Environmental Case Listing

The listing contains all underground tank release cases and projects pertaining to properties contaminated with hazardous substances that are actively under review by the Site Assessment and Mitigation Program.

Date of Government Version: 03/23/2010
Date Data Arrived at EDR: 06/15/2010
Date Made Active in Reports: 07/09/2010
Number of Days to Update: 24

Source: San Diego County Department of Environmental Health
Telephone: 619-338-2371
Last EDR Contact: 11/21/2023
Next Scheduled EDR Contact: 03/11/2024
Data Release Frequency: No Update Planned

SAN FRANCISCO COUNTY:

CUPA SAN FRANCISCO CO: CUPA Facility Listing

Cupa facilities

Date of Government Version: 10/30/2023
Date Data Arrived at EDR: 11/01/2023
Date Made Active in Reports: 01/23/2024
Number of Days to Update: 83

Source: San Francisco County Department of Environmental Health
Telephone: 415-252-3896
Last EDR Contact: 01/29/2024
Next Scheduled EDR Contact: 05/13/2024
Data Release Frequency: Varies

LUST SAN FRANCISCO: Local Oversite Facilities
A listing of leaking underground storage tank sites located in San Francisco county.

Date of Government Version: 09/19/2008
Date Data Arrived at EDR: 09/19/2008
Date Made Active in Reports: 09/29/2008
Number of Days to Update: 10

Source: Department Of Public Health San Francisco County
Telephone: 415-252-3920
Last EDR Contact: 01/29/2024
Next Scheduled EDR Contact: 05/13/2024
Data Release Frequency: No Update Planned

UST SAN FRANCISCO: Underground Storage Tank Information
Underground storage tank sites located in San Francisco county.

Date of Government Version: 10/30/2023
Date Data Arrived at EDR: 11/01/2023
Date Made Active in Reports: 01/23/2024
Number of Days to Update: 83

Source: Department of Public Health
Telephone: 415-252-3920
Last EDR Contact: 01/29/2024
Next Scheduled EDR Contact: 05/13/2024
Data Release Frequency: Quarterly

SAN FRANCISO COUNTY:

SAN FRANCISCO MAHER: Maher Ordinance Property Listing
a listing of properties that fall within a Maher Ordinance, for all of San Francisco

Date of Government Version: 10/15/2023
Date Data Arrived at EDR: 10/17/2023
Date Made Active in Reports: 01/11/2024
Number of Days to Update: 86

Source: San Francisco Planning
Telephone: 628-652-7483
Last EDR Contact: 01/18/2024
Next Scheduled EDR Contact: 04/29/2024
Data Release Frequency: Varies

SAN JOAQUIN COUNTY:

UST SAN JOAQUIN: San Joaquin Co. UST
A listing of underground storage tank locations in San Joaquin county.

Date of Government Version: 06/22/2018
Date Data Arrived at EDR: 06/26/2018
Date Made Active in Reports: 07/11/2018
Number of Days to Update: 15

Source: Environmental Health Department
Telephone: N/A
Last EDR Contact: 12/05/2023
Next Scheduled EDR Contact: 03/25/2024
Data Release Frequency: Semi-Annually

SAN LUIS OBISPO COUNTY:

CUPA SAN LUIS OBISPO: CUPA Facility List
Cupa Facility List.

Date of Government Version: 11/08/2023
Date Data Arrived at EDR: 11/09/2023
Date Made Active in Reports: 02/07/2024
Number of Days to Update: 90

Source: San Luis Obispo County Public Health Department
Telephone: 805-781-5596
Last EDR Contact: 11/08/2023
Next Scheduled EDR Contact: 02/26/2024
Data Release Frequency: Varies

SAN MATEO COUNTY:

BI SAN MATEO: Business Inventory
List includes Hazardous Materials Business Plan, hazardous waste generators, and underground storage tanks.

Date of Government Version: 02/20/2020
Date Data Arrived at EDR: 02/20/2020
Date Made Active in Reports: 04/24/2020
Number of Days to Update: 64
Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 12/07/2023
Next Scheduled EDR Contact: 03/18/2024
Data Release Frequency: Annually

LUST SAN MATEO: Fuel Leak List
A listing of leaking underground storage tank sites located in San Mateo county.

Date of Government Version: 03/29/2019
Date Data Arrived at EDR: 03/29/2019
Date Made Active in Reports: 05/29/2019
Number of Days to Update: 61
Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 11/28/2023
Next Scheduled EDR Contact: 03/18/2024
Data Release Frequency: Semi-Annually

SANTA BARBARA COUNTY:

CUPA SANTA BARBARA: CUPA Facility Listing
CUPA Program Listing from the Environmental Health Services division.

Date of Government Version: 09/08/2011
Date Data Arrived at EDR: 09/09/2011
Date Made Active in Reports: 10/07/2011
Number of Days to Update: 28
Source: Santa Barbara County Public Health Department
Telephone: 805-686-8167
Last EDR Contact: 11/08/2023
Next Scheduled EDR Contact: 02/26/2024
Data Release Frequency: No Update Planned

SANTA CLARA COUNTY:

CUPA SANTA CLARA: Cupa Facility List
Cupa facility list

Date of Government Version: 11/07/2023
Date Data Arrived at EDR: 11/08/2023
Date Made Active in Reports: 11/16/2023
Number of Days to Update: 8
Source: Department of Environmental Health
Telephone: 408-918-1973
Last EDR Contact: 10/31/2023
Next Scheduled EDR Contact: 02/26/2024
Data Release Frequency: Varies

HIST LUST SANTA CLARA: HIST LUST - Fuel Leak Site Activity Report
A listing of open and closed leaking underground storage tanks. This listing is no longer updated by the county. Leaking underground storage tanks are now handled by the Department of Environmental Health.

Date of Government Version: 03/29/2005
Date Data Arrived at EDR: 03/30/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 22
Source: Santa Clara Valley Water District
Telephone: 408-265-2600
Last EDR Contact: 03/23/2009
Next Scheduled EDR Contact: 06/22/2009
Data Release Frequency: No Update Planned

LUST SANTA CLARA: LOP Listing
A listing of leaking underground storage tanks located in Santa Clara county.

Date of Government Version: 03/03/2014
Date Data Arrived at EDR: 03/05/2014
Date Made Active in Reports: 03/18/2014
Number of Days to Update: 13
Source: Department of Environmental Health
Telephone: 408-918-3417
Last EDR Contact: 11/13/2023
Next Scheduled EDR Contact: 03/04/2024
Data Release Frequency: No Update Planned

SANTA CRUZ COUNTY:

CUPA SANTA CRUZ: CUPA Facility List
CUPA facility listing.

Date of Government Version: 01/21/2017
Date Data Arrived at EDR: 02/22/2017
Date Made Active in Reports: 05/23/2017
Number of Days to Update: 90

Source: Santa Cruz County Environmental Health
Telephone: 831-464-2761
Last EDR Contact: 11/08/2023
Next Scheduled EDR Contact: 02/26/2024
Data Release Frequency: Varies

SHASTA COUNTY:

CUPA SHASTA: CUPA Facility List
Cupa Facility List.

Date of Government Version: 06/15/2017
Date Data Arrived at EDR: 06/19/2017
Date Made Active in Reports: 08/09/2017
Number of Days to Update: 51

Source: Shasta County Department of Resource Management
Telephone: 530-225-5789
Last EDR Contact: 11/08/2023
Next Scheduled EDR Contact: 02/26/2024
Data Release Frequency: Varies

SOLANO COUNTY:

LUST SOLANO: Leaking Underground Storage Tanks
A listing of leaking underground storage tank sites located in Solano county.

Date of Government Version: 06/04/2019
Date Data Arrived at EDR: 06/06/2019
Date Made Active in Reports: 08/13/2019
Number of Days to Update: 68

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 11/21/2023
Next Scheduled EDR Contact: 03/11/2024
Data Release Frequency: Quarterly

UST SOLANO: Underground Storage Tanks
Underground storage tank sites located in Solano county.

Date of Government Version: 09/15/2021
Date Data Arrived at EDR: 09/16/2021
Date Made Active in Reports: 12/09/2021
Number of Days to Update: 84

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 11/21/2023
Next Scheduled EDR Contact: 03/11/2024
Data Release Frequency: Quarterly

SONOMA COUNTY:

CUPA SONOMA: Cupa Facility List
Cupa Facility list

Date of Government Version: 07/02/2021
Date Data Arrived at EDR: 07/06/2021
Date Made Active in Reports: 07/14/2021
Number of Days to Update: 8

Source: County of Sonoma Fire & Emergency Services Department
Telephone: 707-565-1174
Last EDR Contact: 12/12/2023
Next Scheduled EDR Contact: 04/01/2024
Data Release Frequency: Varies

LUST SONOMA: Leaking Underground Storage Tank Sites
A listing of leaking underground storage tank sites located in Sonoma county.

Date of Government Version: 06/30/2021
Date Data Arrived at EDR: 06/30/2021
Date Made Active in Reports: 09/24/2021
Number of Days to Update: 86

Source: Department of Health Services
Telephone: 707-565-6565
Last EDR Contact: 12/12/2023
Next Scheduled EDR Contact: 04/01/2024
Data Release Frequency: Quarterly

STANISLAUS COUNTY:

CUPA STANISLAUS: CUPA Facility List
Cupa facility list

Date of Government Version: 02/08/2022
Date Data Arrived at EDR: 02/10/2022
Date Made Active in Reports: 05/04/2022
Number of Days to Update: 83

Source: Stanislaus County Department of Ennvironmental Protection
Telephone: 209-525-6751
Last EDR Contact: 01/04/2024
Next Scheduled EDR Contact: 04/22/2024
Data Release Frequency: Varies

SUTTER COUNTY:

UST SUTTER: Underground Storage Tanks
Underground storage tank sites located in Sutter county.

Date of Government Version: 08/03/2023
Date Data Arrived at EDR: 08/24/2023
Date Made Active in Reports: 09/12/2023
Number of Days to Update: 19

Source: Sutter County Environmental Health Services
Telephone: 530-822-7500
Last EDR Contact: 11/21/2023
Next Scheduled EDR Contact: 03/11/2024
Data Release Frequency: Semi-Annually

TEHAMA COUNTY:

CUPA TEHAMA: CUPA Facility List
Cupa facilities

Date of Government Version: 08/01/2023
Date Data Arrived at EDR: 08/02/2023
Date Made Active in Reports: 10/19/2023
Number of Days to Update: 78

Source: Tehama County Department of Environmental Health
Telephone: 530-527-8020
Last EDR Contact: 01/29/2024
Next Scheduled EDR Contact: 05/13/2024
Data Release Frequency: Varies

TRINITY COUNTY:

CUPA TRINITY: CUPA Facility List
Cupa facility list

Date of Government Version: 10/10/2023
Date Data Arrived at EDR: 10/11/2023
Date Made Active in Reports: 01/04/2024
Number of Days to Update: 85

Source: Department of Toxic Substances Control
Telephone: 760-352-0381
Last EDR Contact: 01/11/2024
Next Scheduled EDR Contact: 04/29/2024
Data Release Frequency: Varies

TULARE COUNTY:

CUPA TULARE: CUPA Facility List
Cupa program facilities

Date of Government Version: 10/07/2022
Date Data Arrived at EDR: 10/07/2022
Date Made Active in Reports: 12/21/2022
Number of Days to Update: 75

Source: Tulare County Environmental Health Services Division
Telephone: 559-624-7400
Last EDR Contact: 01/29/2024
Next Scheduled EDR Contact: 05/13/2024
Data Release Frequency: Varies

TUOLUMNE COUNTY:

CUPA TUOLUMNE: CUPA Facility List
Cupa facility list

Date of Government Version: 04/23/2018
Date Data Arrived at EDR: 04/25/2018
Date Made Active in Reports: 06/25/2018
Number of Days to Update: 61

Source: Divison of Environmental Health
Telephone: 209-533-5633
Last EDR Contact: 01/11/2024
Next Scheduled EDR Contact: 04/29/2024
Data Release Frequency: Varies

VENTURA COUNTY:

BWT VENTURA: Business Plan, Hazardous Waste Producers, and Operating Underground Tanks
The BWT list indicates by site address whether the Environmental Health Division has Business Plan (B), Waste Producer (W), and/or Underground Tank (T) information.

Date of Government Version: 09/26/2023
Date Data Arrived at EDR: 10/20/2023
Date Made Active in Reports: 01/11/2024
Number of Days to Update: 83

Source: Ventura County Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 01/16/2024
Next Scheduled EDR Contact: 04/29/2024
Data Release Frequency: Quarterly

LF VENTURA: Inventory of Illegal Abandoned and Inactive Sites
Ventura County Inventory of Closed, Illegal Abandoned, and Inactive Sites.

Date of Government Version: 12/01/2011
Date Data Arrived at EDR: 12/01/2011
Date Made Active in Reports: 01/19/2012
Number of Days to Update: 49

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 12/18/2023
Next Scheduled EDR Contact: 04/08/2024
Data Release Frequency: No Update Planned

LUST VENTURA: Listing of Underground Tank Cleanup Sites
Ventura County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 05/29/2008
Date Data Arrived at EDR: 06/24/2008
Date Made Active in Reports: 07/31/2008
Number of Days to Update: 37

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 02/02/2024
Next Scheduled EDR Contact: 05/20/2024
Data Release Frequency: No Update Planned

MED WASTE VENTURA: Medical Waste Program List
To protect public health and safety and the environment from potential exposure to disease causing agents, the Environmental Health Division Medical Waste Program regulates the generation, handling, storage, treatment and disposal of medical waste throughout the County.

Date of Government Version: 09/26/2023
Date Data Arrived at EDR: 10/24/2023
Date Made Active in Reports: 01/11/2024
Number of Days to Update: 79

Source: Ventura County Resource Management Agency
Telephone: 805-654-2813
Last EDR Contact: 01/16/2024
Next Scheduled EDR Contact: 04/29/2024
Data Release Frequency: Quarterly

UST VENTURA: Underground Tank Closed Sites List
Ventura County Operating Underground Storage Tank Sites (UST)/Underground Tank Closed Sites List.

Date of Government Version: 08/28/2023
Date Data Arrived at EDR: 09/06/2023
Date Made Active in Reports: 11/28/2023
Number of Days to Update: 83

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 11/29/2023
Next Scheduled EDR Contact: 03/18/2024
Data Release Frequency: Quarterly

YOLO COUNTY:

UST YOLO: Underground Storage Tank Comprehensive Facility Report
Underground storage tank sites located in Yolo county.

Date of Government Version: 09/21/2023
Date Data Arrived at EDR: 10/04/2023
Date Made Active in Reports: 12/27/2023
Number of Days to Update: 84

Source: Yolo County Department of Health
Telephone: 530-666-8646
Last EDR Contact: 12/18/2023
Next Scheduled EDR Contact: 04/08/2024
Data Release Frequency: Annually

YUBA COUNTY:

CUPA YUBA: CUPA Facility List
CUPA facility listing for Yuba County.

Date of Government Version: 10/30/2023
Date Data Arrived at EDR: 11/03/2023
Date Made Active in Reports: 01/23/2024
Number of Days to Update: 81

Source: Yuba County Environmental Health Department
Telephone: 530-749-7523
Last EDR Contact: 01/22/2024
Next Scheduled EDR Contact: 05/06/2024
Data Release Frequency: Varies

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

CT MANIFEST: Hazardous Waste Manifest Data
Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 11/06/2023
Date Data Arrived at EDR: 11/07/2023
Date Made Active in Reports: 01/31/2024
Number of Days to Update: 85

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 02/06/2024
Next Scheduled EDR Contact: 05/20/2024
Data Release Frequency: No Update Planned

NJ MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2018
Date Data Arrived at EDR: 04/10/2019
Date Made Active in Reports: 05/16/2019
Number of Days to Update: 36

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 12/27/2023
Next Scheduled EDR Contact: 04/15/2024
Data Release Frequency: Annually

NY MANIFEST: Facility and Manifest Data
Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 12/31/2019
Date Data Arrived at EDR: 11/30/2023
Date Made Active in Reports: 12/01/2023
Number of Days to Update: 1

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 01/26/2024
Next Scheduled EDR Contact: 05/06/2024
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

PA MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 06/30/2018
Date Data Arrived at EDR: 07/19/2019
Date Made Active in Reports: 09/10/2019
Number of Days to Update: 53

Source: Department of Environmental Protection
Telephone: 717-783-8990
Last EDR Contact: 01/05/2024
Next Scheduled EDR Contact: 04/22/2024
Data Release Frequency: Annually

RI MANIFEST: Manifest information
Hazardous waste manifest information

Date of Government Version: 12/31/2020
Date Data Arrived at EDR: 11/30/2021
Date Made Active in Reports: 02/18/2022
Number of Days to Update: 80

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 11/09/2022
Next Scheduled EDR Contact: 02/26/2024
Data Release Frequency: Annually

WI MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 05/31/2018
Date Data Arrived at EDR: 06/19/2019
Date Made Active in Reports: 09/03/2019
Number of Days to Update: 76

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 11/29/2023
Next Scheduled EDR Contact: 03/18/2024
Data Release Frequency: Annually

Oil/Gas Pipelines
Source: Endeavor Business Media
Petroleum Bundle (Crude Oil, Refined Products, Petrochemicals, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)) N = Natural Gas Bundle (Natural Gas, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)). This map includes information copyrighted by Endeavor Business Media. This information is provided on a best effort basis and Endeavor Business Media does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of Endeavor Business Media.

Electric Power Transmission Line Data
Source: Endeavor Business Media
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Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:
Source: American Hospital Association, Inc.
Telephone: 312-280-5991
The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing
Source: Centers for Medicare & Medicaid Services
Telephone: 410-786-3000
A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes
Source: National Institutes of Health
Telephone: 301-594-6248
Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Private Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on private school locations in the United States.
Daycare Centers: Licensed Facilities
Source: Department of Social Services
Telephone: 916-657-4041

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.
Source: FEMA
Telephone: 877-336-2627
Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005, 2010 and 2015 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory
Source: Department of Fish and Wildlife
Telephone: 916-445-0411

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

STREET AND ADDRESS INFORMATION

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GEOCHECK ®- PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

LANCASTER PARCEL 3378-003-001
NOT REPORTED
LANCASTER, CA 93535

TARGET PROPERTY COORDINATES

Latitude (North):	34.67177 - 34° 40' 18.37''
Longitude (West):	117.965245 - 117° 57' 54.88''
Universal Tranverse Mercator:	Zone 11
UTM X (Meters):	411566.0
UTM Y (Meters):	3836871.8
Elevation:	2488 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	50005266 ALPINE BUTTE, CA
Version Date:	2021

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principle investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

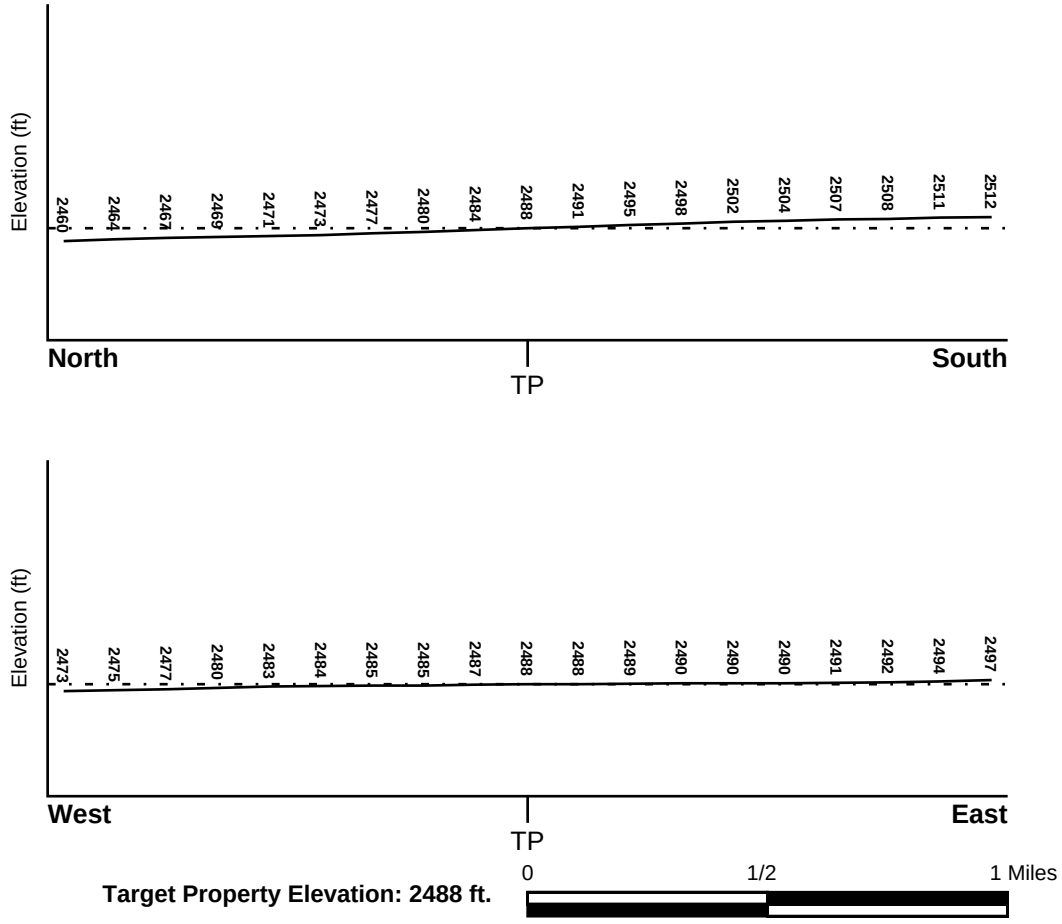
TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General NNW

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

Flood Plain Panel at Target Property	FEMA Source Type
06037C0462F	FEMA FIRM Flood data

Additional Panels in search area:	FEMA Source Type
06037C0465F	FEMA FIRM Flood data

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property	NWI Electronic Data Coverage
NOT AVAILABLE	YES - refer to the Overview Map and Detail Map

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Site-Specific Hydrogeological Data*:

Search Radius:	1.25 miles
Status:	Not found

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

MAP ID	LOCATION FROM TP	GENERAL DIRECTION GROUNDWATER FLOW
Not Reported		

* ©1996 Site−specific hydrogeological data gathered by CERCLIS Alerts, Inc., Bainbridge Island, WA. All rights reserved. All of the information and opinions presented are those of the cited EPA report(s), which were completed under a Comprehensive Environmental Response Compensation and Liability Information System (CERCLIS) investigation.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

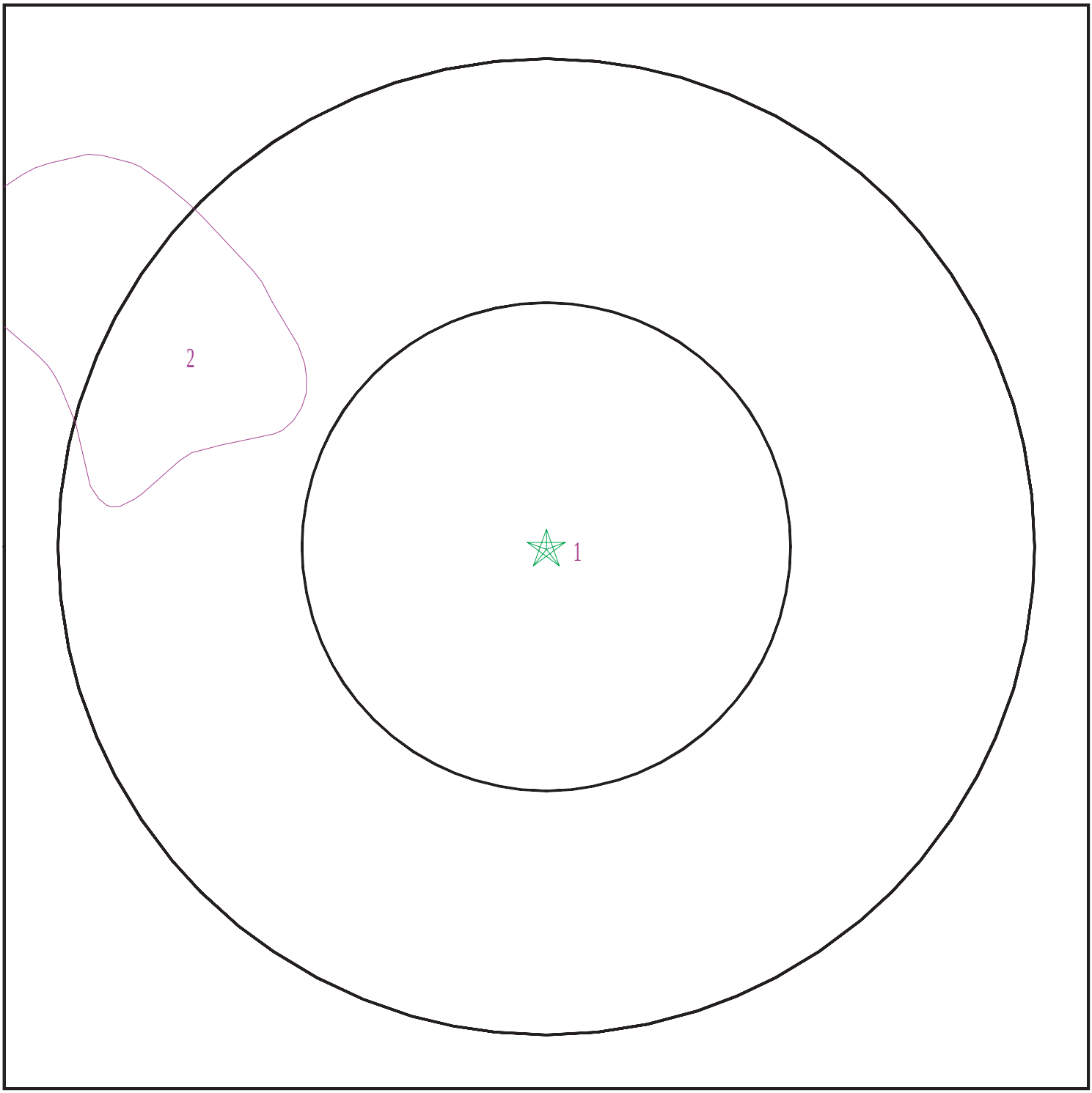
Era:	Cenozoic
System:	Quaternary
Series:	Quaternary
Code:	Q *(decoded above as Era, System & Series)*

GEOLOGIC AGE IDENTIFICATION

Category: Stratifed Sequence

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

SSURGO SOIL MAP - 7563392.2s



Target Property
SSURGO Soil
Water

0 1/16 1/8 1/4 Miles

N

SITE NAME:	Lancaster Parcel 3378-003-001	CLIENT:	NV5
ADDRESS:	Not Reported	CONTACT:	Eric Fraske
	LANCASTER CA 93535	INQUIRY #:	7563392.2s
LAT/LONG:	34.67177 / 117.965245	DATE:	February 08, 2024 2:45 pm

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GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. The following information is based on Soil Conservation Service SSURGO data.

Soil Map ID: 1

Soil Component Name: Hesperia

Soil Surface Texture: loamy fine sand

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	7 inches	loamy fine sand	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 8.4 Min: 7.4
2	7 inches	53 inches	fine sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 8.4 Min: 7.4
3	53 inches	77 inches	sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 8.4 Min: 7.4

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Map ID: 2

Soil Component Name: Rosamond

Soil Surface Texture: loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	7 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14 Min: 4	Max: 8.4 Min: 7.9
2	7 inches	59 inches	stratified loam to silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14 Min: 4	Max: 8.4 Min: 7.9

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

WELL SEARCH DISTANCE INFORMATION

DATABASE	SEARCH DISTANCE (miles)
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
1	USGS40000150803	1/8 - 1/4 Mile South
3	USGS40000151113	1/4 - 1/2 Mile North
A6	USGS40000151055	1/4 - 1/2 Mile NE
7	USGS40000151133	1/4 - 1/2 Mile NW
B8	USGS40000151134	1/2 - 1 Mile WNW
C11	USGS40000150489	1/2 - 1 Mile South
D12	USGS40000150774	1/2 - 1 Mile WSW
15	USGS40000151149	1/2 - 1 Mile ENE
18	USGS40000151363	1/2 - 1 Mile NNE
19	USGS40000150773	1/2 - 1 Mile ESE
F20	USGS40000150360	1/2 - 1 Mile SSE
G21	USGS40000151372	1/2 - 1 Mile NNW
G22	USGS40000151373	1/2 - 1 Mile NNW
25	USGS40000151267	1/2 - 1 Mile NE
H26	USGS40000150394	1/2 - 1 Mile SSW
H27	USGS40000150322	1/2 - 1 Mile SSW
28	USGS40000151201	1/2 - 1 Mile WNW
29	USGS40000151112	1/2 - 1 Mile ENE

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No PWS System Found		

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

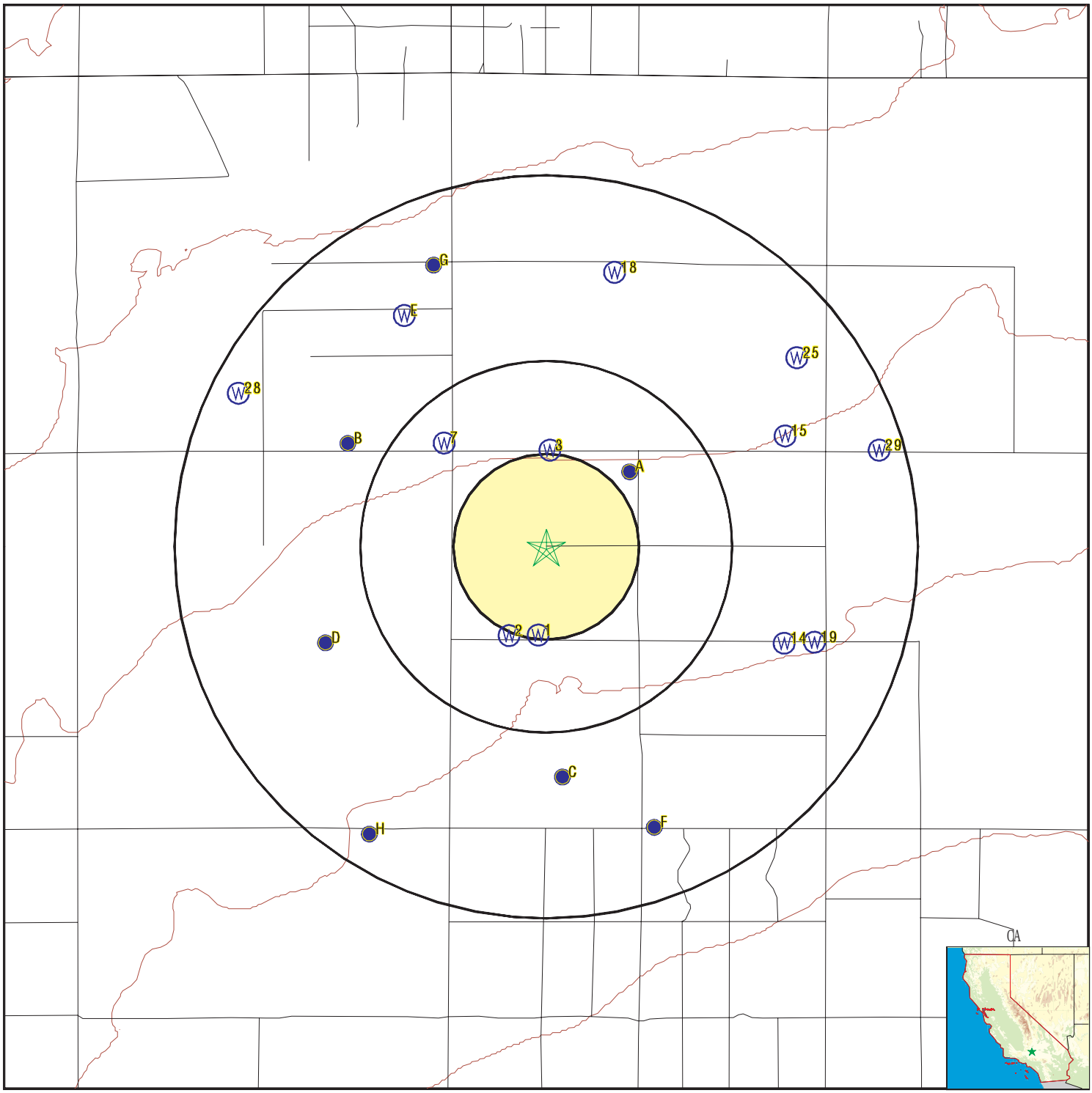
MAP ID	WELL ID	LOCATION FROM TP
2	CADWR9000011605	1/4 - 1/2 Mile SSW
A4	CADWR9000011668	1/4 - 1/2 Mile NE
A5	CADWR0000017255	1/4 - 1/2 Mile NE
C9	CADWR9000011512	1/2 - 1 Mile South
B10	CADWR9000011706	1/2 - 1 Mile WNW
D13	CADWR9000011587	1/2 - 1 Mile WSW
14	CADWR9000011586	1/2 - 1 Mile ESE
E16	CADDW0000012985	1/2 - 1 Mile NNW

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
E17	CADDW0000013472	1/2 - 1 Mile NNW
F23	CADWR9000011473	1/2 - 1 Mile SSE
G24	CADWR9000011775	1/2 - 1 Mile NNW
H30	CADWR9000011456	1/2 - 1 Mile SSW

PHYSICAL SETTING SOURCE MAP - 7563392.2s



- County Boundary
- Major Roads
- Contour Lines
- Earthquake Fault Lines
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons

- Groundwater Flow Direction
- GI Indeterminate Groundwater Flow at Location
- GV Groundwater Flow Varies at Location
- HD Closest Hydrogeological Data
- Oil, gas or related wells

SITE NAME:	Lancaster Parcel 3378-003-001	CLIENT:	NV5
ADDRESS:	Not Reported	CONTACT:	Eric Fraske
	LANCASTER CA 93535	INQUIRY #:	7563392.2s
LAT/LONG:	34.67177 / 117.965245	DATE:	February 08, 2024 2:45 pm

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GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

1
South
1/8 - 1/4 Mile
Higher

FED USGS **USGS40000150803**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	007N010W29E001S	Type:	Well
Description:	Not Reported	HUC:	18090206
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Basin and Range basin-fill aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19460101	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	600
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	1	Level reading date:	1950-12-19
Feet below surface:	208.08	Feet to sea level:	Not Reported
Note:	Not Reported		

2
SSW
1/4 - 1/2 Mile
Higher

CA WELLS **CADWR9000011605**

State Well #:	07N10W29E001S	Station ID:	9225
Well Name:	Not Reported	Basin Name:	Antelope Valley
Well Use:	Unknown	Well Type:	Unknown
Well Depth:	0	Well Completion Rpt #:	Not Reported

3
North
1/4 - 1/2 Mile
Lower

FED USGS **USGS40000151113**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	007N010W20N001S	Type:	Well
Description:	Not Reported	HUC:	18090206
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Basin and Range basin-fill aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19390101	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	405
Well Hole Depth Units:	ft		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

A4
NE
1/4 - 1/2 Mile
Lower

CA WELLS **CADWR9000011668**

State Well #:	07N10W29B001S	Station ID:	9224
Well Name:	Not Reported	Basin Name:	Antelope Valley
Well Use:	Unknown	Well Type:	Unknown
Well Depth:	0	Well Completion Rpt #:	Not Reported

A5
NE
1/4 - 1/2 Mile
Lower

CA WELLS **CADWR0000017255**

Well ID:	07N10W29B001S	Well Type:	UNK
Source:	Department of Water Resources		
Other Name:	07N10W29B001S	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DWR&samp_date=&global_id=&assigned_name=07N10W29B001S&store_num=		
GeoTracker Data:	Not Reported		

A6
NE
1/4 - 1/2 Mile
Lower

FED USGS **USGS40000151055**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	007N010W29B001S	Type:	Well
Description:	Not Reported	HUC:	18090206
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Basin and Range basin-fill aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19440101	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	585
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	25	Level reading date:	2004-03-29
Feet below surface:	333.50	Feet to sea level:	Not Reported
Note:	A nearby site that taps the same aquifer was being pumped.		
Level reading date:	2003-03-24	Feet below surface:	327.10
Feet to sea level:	Not Reported		
Note:	A nearby site that taps the same aquifer was being pumped.		
Level reading date:	2002-03-27	Feet below surface:	309.94
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2001-03-13	Feet below surface:	302.11
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2000-03-22	Feet below surface:	299.09
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1999-03-31	Feet below surface:	Not Reported
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1998-03-18	Feet below surface:	295.54
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1997-03-03	Feet below surface:	292.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1996-04-17	Feet below surface:	295.87
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1995-04-19	Feet below surface:	295.92
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1994-04-12	Feet below surface:	297.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1993-04-21	Feet below surface:	299.94
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1992-04-14	Feet below surface:	303.08
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1991-03-20	Feet below surface:	307.92
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1990-03-15	Feet below surface:	312.32
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1989-03-20	Feet below surface:	317.35
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1988-03-30	Feet below surface:	321.34
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1987-02-23	Feet below surface:	325.49
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1986-03-20	Feet below surface:	330.46
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1985-03-28	Feet below surface:	334.32
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1984-03-08	Feet below surface:	337.48
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1983-04-15	Feet below surface:	340.96
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1982-02-08	Feet below surface:	343.25
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-09-03	Feet below surface:	348.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1950-12-19	Feet below surface:	201.52
Feet to sea level:	Not Reported	Note:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

7
NW
1/4 - 1/2 Mile
Lower

FED USGS **USGS40000151133**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	007N010W19R001S	Type:	Well
Description:	Not Reported	HUC:	18090206
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Basin and Range basin-fill aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

B8
WNW
1/2 - 1 Mile
Lower

FED USGS **USGS40000151134**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	007N010W19Q001S	Type:	Well
Description:	Not Reported	HUC:	18090206
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Basin and Range basin-fill aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19470101	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	600
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	25	Level reading date:	2004-03-29
Feet below surface:	306.95	Feet to sea level:	Not Reported
Note:	Not Reported		
Level reading date:	2003-03-24	Feet below surface:	300.25
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2002-03-27	Feet below surface:	299.61
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2001-03-13	Feet below surface:	286.84
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2000-03-22	Feet below surface:	286.95
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1999-07-20	Feet below surface:	297.03
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1999-03-24	Feet below surface:	286.48
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1998-03-18	Feet below surface:	281.95

Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1997-03-03	Feet below surface:	282.39
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1996-04-17	Feet below surface:	289.52
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1995-04-19	Feet below surface:	287.66
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1994-04-12	Feet below surface:	288.69
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1993-04-21	Feet below surface:	288.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1992-04-14	Feet below surface:	291.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1991-03-20	Feet below surface:	296.12
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1990-03-14	Feet below surface:	304.31
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1989-03-20	Feet below surface:	307.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1988-03-30	Feet below surface:	312.68
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1987-02-24	Feet below surface:	315.88
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1986-03-20	Feet below surface:	321.59
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1985-03-28	Feet below surface:	326.06
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1984-03-08	Feet below surface:	329.15
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1983-04-15	Feet below surface:	334.57
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1982-02-08	Feet below surface:	337.97
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-09-03	Feet below surface:	344.60
Feet to sea level:	Not Reported	Note:	Not Reported

C9
South
1/2 - 1 Mile
Higher

CA WELLS **CADWR9000011512**

State Well #:	07N10W29P001S	Station ID:	9227
Well Name:	Not Reported	Basin Name:	Antelope Valley
Well Use:	Unknown	Well Type:	Unknown

Well Depth:	0	Well Completion Rpt #:	Not Reported

B10
WNW
1/2 - 1 Mile
Lower

CA WELLS **CADWR9000011706**

State Well #:	07N10W19Q001S	Station ID:	27738
Well Name:	Not Reported	Basin Name:	Antelope Valley
Well Use:	Unknown	Well Type:	Unknown
Well Depth:	0	Well Completion Rpt #:	Not Reported

C11
South
1/2 - 1 Mile
Higher

FED USGS **USGS40000150489**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	007N010W29P001S	Type:	Well
Description:	Not Reported	HUC:	18090206
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Basin and Range basin-fill aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19460901	Well Depth:	378.7
Well Depth Units:	ft	Well Hole Depth:	410
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	20	Level reading date:	2000-03-22
Feet below surface:	306.81	Feet to sea level:	Not Reported
Note:	Not Reported		
Level reading date:	1999-03-31	Feet below surface:	303.88
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1998-03-18	Feet below surface:	303.81
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1997-03-03	Feet below surface:	304.02
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1996-04-17	Feet below surface:	305.08
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1995-04-19	Feet below surface:	306.12
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1994-04-12	Feet below surface:	308.17
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1993-04-22	Feet below surface:	310.59
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1992-04-15	Feet below surface:	314.20
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1991-03-21	Feet below surface:	319.04
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1990-03-14	Feet below surface:	322.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1989-03-21	Feet below surface:	327.07
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1988-03-30	Feet below surface:	330.18
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1987-02-23	Feet below surface:	334.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1986-03-20	Feet below surface:	339.48
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1985-03-28	Feet below surface:	342.78
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1984-03-08	Feet below surface:	346.64
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1983-04-15	Feet below surface:	349.96
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1982-02-08	Feet below surface:	352.93
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-09-02	Feet below surface:	355.02
Feet to sea level:	Not Reported	Note:	Not Reported

D12
WSW
1/2 - 1 Mile
Higher

FED USGS **USGS40000150774**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	007N010W30G001S	Type:	Well
Description:	Not Reported	HUC:	18090206
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Basin and Range basin-fill aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	450
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	10	Level reading date:	1952-11-25
Feet below surface:	221.70	Feet to sea level:	Not Reported
Note:	Not Reported		
Level reading date:	1951-11-06	Feet below surface:	217.57
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1950-11-15	Feet below surface:	206.44
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1949-11-29	Feet below surface:	198.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1947-11-06	Feet below surface:	187.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1946-11-26	Feet below surface:	170.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1943-12-15	Feet below surface:	155.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1942-12-04	Feet below surface:	152.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1941-12-02	Feet below surface:	144.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1940-11-29	Feet below surface:	143.10
Feet to sea level:	Not Reported	Note:	Not Reported

D13
WSW **CA WELLS** **CADWR9000011587**
1/2 - 1 Mile
Higher

State Well #:	07N10W30G001S	Station ID:	9230
Well Name:	Not Reported	Basin Name:	Antelope Valley
Well Use:	Unknown	Well Type:	Unknown
Well Depth:	0	Well Completion Rpt #:	Not Reported

14
ESE **CA WELLS** **CADWR9000011586**
1/2 - 1 Mile
Higher

State Well #:	07N10W29H001S	Station ID:	9226
Well Name:	Not Reported	Basin Name:	Antelope Valley
Well Use:	Unknown	Well Type:	Unknown
Well Depth:	0	Well Completion Rpt #:	Not Reported

15
ENE **FED USGS** **USGS40000151149**
1/2 - 1 Mile
Lower

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	007N010W20R001S	Type:	Well
Description:	Not Reported	HUC:	18090206
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Basin and Range basin-fill aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19300101	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	600
Well Hole Depth Units:	ft		

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

E16
NNW
1/2 - 1 Mile
Lower

CA WELLS **CADDW0000012985**

Well ID:	1900801-002	Well Type:	MUNICIPAL
Source:	Department of Health Services		
Other Name:	WELL 02	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=1900801-002&store_num=		
GeoTracker Data:	Not Reported		

E17
NNW
1/2 - 1 Mile
Lower

CA WELLS **CADDW0000013472**

Well ID:	1900801-001	Well Type:	MUNICIPAL
Source:	Department of Health Services		
Other Name:	WELL 01	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=1900801-001&store_num=		
GeoTracker Data:	Not Reported		

18
NNE
1/2 - 1 Mile
Lower

FED USGS **USGS40000151363**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	007N010W20L001S	Type:	Well
Description:	Not Reported	HUC:	18090206
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Basin and Range basin-fill aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19470417	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	600
Well Hole Depth Units:	ft		

19
ESE
1/2 - 1 Mile
Higher

FED USGS **USGS40000150773**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	007N010W29H001S	Type:	Well
Description:	Not Reported	HUC:	18090206
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Basin and Range basin-fill aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported

Construction Date:	19290101	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	404
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	1	Level reading date:	1950-12-21
Feet below surface:	208.93	Feet to sea level:	Not Reported
Note:	Not Reported		

F20
SSE **FED USGS** **USGS40000150360**
1/2 - 1 Mile
Higher

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	007N010W29Q001S	Type:	Well
Description:	Not Reported	HUC:	18090206
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Basin and Range basin-fill aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19431201	Well Depth:	370.5
Well Depth Units:	ft	Well Hole Depth:	376
Well Hole Depth Units:	ft		

G21
NNW **FED USGS** **USGS40000151372**
1/2 - 1 Mile
Lower

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	007N010W19H001S	Type:	Well
Description:	Not Reported	HUC:	18090206
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Basin and Range basin-fill aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19300101	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	450
Well Hole Depth Units:	ft		

G22
NNW **FED USGS** **USGS40000151373**
1/2 - 1 Mile
Lower

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	007N010W19H002S	Type:	Well
Description:	Not Reported	HUC:	18090206
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Basin and Range basin-fill aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19511119	Well Depth:	Not Reported

Well Depth Units:	Not Reported	Well Hole Depth:	600
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	1	Level reading date:	1951-11-19
Feet below surface:	191.05	Feet to sea level:	Not Reported
Note:	Not Reported		

F23
SSE
1/2 - 1 Mile
Higher

CA WELLS **CADWR9000011473**

State Well #:	07N10W29Q001S	Station ID:	25605
Well Name:	Not Reported	Basin Name:	Antelope Valley
Well Use:	Unknown	Well Type:	Unknown
Well Depth:	0	Well Completion Rpt #:	Not Reported

G24
NNW
1/2 - 1 Mile
Lower

CA WELLS **CADWR9000011775**

State Well #:	07N10W19H002S	Station ID:	5872
Well Name:	Not Reported	Basin Name:	Antelope Valley
Well Use:	Unknown	Well Type:	Unknown
Well Depth:	0	Well Completion Rpt #:	Not Reported

25
NE
1/2 - 1 Mile
Lower

FED USGS **USGS40000151267**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	007N010W20J001S	Type:	Well
Description:	Not Reported	HUC:	18090206
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Basin and Range basin-fill aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19270101	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	550
Well Hole Depth Units:	ft		

H26
SSW
1/2 - 1 Mile
Higher

FED USGS **USGS40000150394**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	007N010W30R001S	Type:	Well
Description:	Not Reported	HUC:	18090206
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported

Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Basin and Range basin-fill aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19200101	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	600
Well Hole Depth Units:	ft		

H27
SSW
1/2 - 1 Mile
Higher

FED USGS **USGS40000150322**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	007N010W31A001S	Type:	Well
Description:	Not Reported	HUC:	18090206
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Basin and Range basin-fill aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19210101	Well Depth:	300
Well Depth Units:	ft	Well Hole Depth:	550
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	40	Level reading date:	1943-12-15
Feet below surface:	166.20	Feet to sea level:	Not Reported
Note:	Not Reported		

Level reading date:	1943-04-21	Feet below surface:	165.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1942-12-04	Feet below surface:	161.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1942-04-22	Feet below surface:	160.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1941-12-03	Feet below surface:	156.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1941-04-11	Feet below surface:	149.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1940-11-29	Feet below surface:	153.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1940-03-13	Feet below surface:	146.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1939-11-18	Feet below surface:	148.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1937-11-10	Feet below surface:	141.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1927-10-27	Feet below surface:	93.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1927-05-09	Feet below surface:	92.30

Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1927-01-17	Feet below surface:	88.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1926-10-15	Feet below surface:	91.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1926-09-16	Feet below surface:	92.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1926-05-13	Feet below surface:	87.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1926-03-16	Feet below surface:	84.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1926-01-04	Feet below surface:	86.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1925-10-30	Feet below surface:	86.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1925-10-06	Feet below surface:	86.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1925-07-17	Feet below surface:	86.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1925-06-09	Feet below surface:	85.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1925-05-06	Feet below surface:	84.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1925-02-10	Feet below surface:	82.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1924-11-14	Feet below surface:	83.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1924-10-23	Feet below surface:	84.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1924-07-10	Feet below surface:	84.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1924-04-12	Feet below surface:	81.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1923-12-12	Feet below surface:	82.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1923-10-08	Feet below surface:	82.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1923-07-14	Feet below surface:	82.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1923-07-12	Feet below surface:	83.40
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1923-05-08	Feet below surface:	81.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1922-10-21	Feet below surface:	72.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1922-08-30	Feet below surface:	82.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1922-05-01	Feet below surface:	80.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1922-01-23	Feet below surface:	78.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1921-10-02	Feet below surface:	79.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1921-08-02	Feet below surface:	80.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1921-05-09	Feet below surface:	78.70
Feet to sea level:	Not Reported	Note:	Not Reported

28
WNW **FED USGS** **USGS40000151201**
1/2 - 1 Mile
Lower

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	007N010W30P001S	Type:	Well
Description:	Not Reported	HUC:	18090206
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Basin and Range basin-fill aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19350101	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	450
Well Hole Depth Units:	ft		

29
ENE **FED USGS** **USGS40000151112**
1/2 - 1 Mile
Lower

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	007N010W21N001S	Type:	Well
Description:	Not Reported	HUC:	18090206
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Basin and Range basin-fill aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

H30
SSW
1/2 - 1 Mile
Higher | **CA WELLS** | **CADWR9000011456**

State Well #:	07N10W31A001S	Station ID:	40116
Well Name:	Not Reported	Basin Name:	Antelope Valley
Well Use:	Unknown	Well Type:	Unknown
Well Depth:	0	Well Completion Rpt #:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
RADON

AREA RADON INFORMATION

State Database: CA Radon

Radon Test Results

Zipcode	Num Tests	> 4 pCi/L
93535	21	0

Federal EPA Radon Zone for LOS ANGELES County: 2

Note: Zone 1 indoor average level > 4 pCi/L.
: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
: Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for LOS ANGELES COUNTY, CA

Number of sites tested: 63

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	0.711 pCi/L	98%	2%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	0.933 pCi/L	100%	0%	0%

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)
Source: United States Geologic Survey
EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

HYDROLOGIC INFORMATION

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.
Source: FEMA
Telephone: 877-336-2627
Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005, 2010 and 2015 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory
Source: Department of Fish and Wildlife
Telephone: 916-445-0411

HYDROGEOLOGIC INFORMATION

AQUIFLOW^{R} Information System
Source: EDR proprietary database of groundwater flow information
EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit
Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
Telephone: 800-672-5559
SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Service, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)
This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

OTHER STATE DATABASE INFORMATION

Groundwater Ambient Monitoring & Assessment Program
State Water Resources Control Board
Telephone: 916-341-5577
The GAMA Program is Californias comprehensive groundwater quality monitoring program. GAMA collects data by testing the untreated, raw water in different types of wells for naturally-occurring and man-made chemicals. The GAMA data includes Domestic, Monitoring and Municipal well types from the following sources, Department of Water Resources, Department of Heath Services, EDF, Agricultural Lands, Lawrence Livermore National Laboratory, Department of Pesticide Regulation, United States Geological Survey, Groundwater Ambient Monitoring and Assessment Program and Local Groundwater Projects.

Water Well Database
Source: Department of Water Resources
Telephone: 916-651-9648

California Drinking Water Quality Database
Source: Department of Public Health
Telephone: 916-324-2319
The database includes all drinking water compliance and special studies monitoring for the state of California since 1984. It consists of over 3,200,000 individual analyses along with well and water system information.

California Oil and Gas Well Locations
Source: Dept of Conservation, Geologic Energy Management Division
Telephone: 916-323-1779
Oil and Gas well locations in the state.

California Earthquake Fault Lines
Source: California Division of Mines and Geology
The fault lines displayed on EDR's Topographic map are digitized quaternary fault lines prepared in 1975 by the United State Geological Survey. Additional information (also from 1975) regarding activity at specific fault lines comes from California's Preliminary Fault Activity Map prepared by the California Division of Mines and Geology.

RADON

State Database: CA Radon
Source: Department of Public Health
Telephone: 916-210-8558
Radon Database for California

PHYSICAL SETTING SOURCE RECORDS SEARCHED

Area Radon Information
Source: USGS
Telephone: 703-356-4020
The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones
Source: EPA
Telephone: 703-356-4020
Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

OTHER

Airport Landing Facilities: Private and public use landing facilities
Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater
Source: Department of Commerce, National Oceanic and Atmospheric Administration

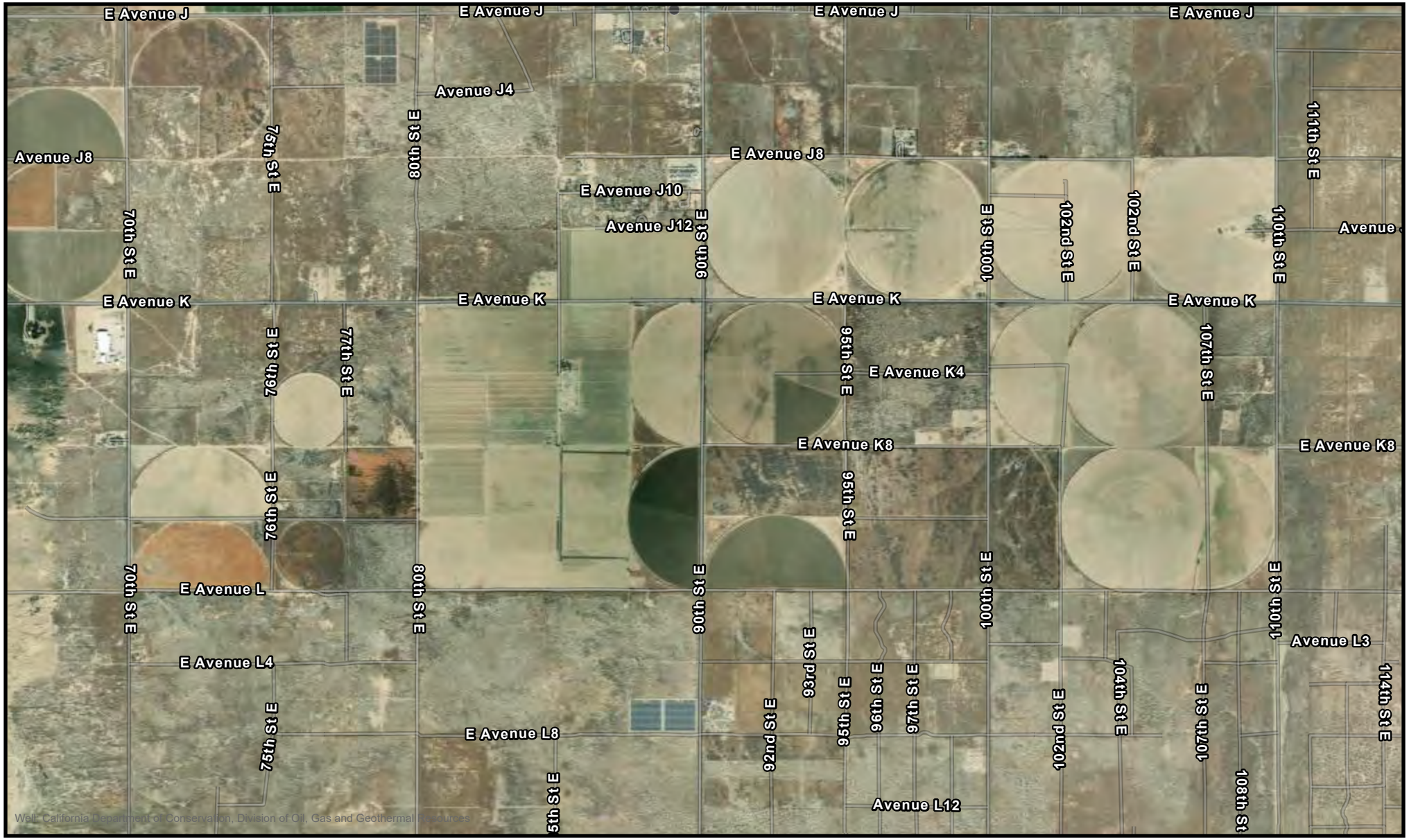
California Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary fault lines, prepared in 1975 by the United State Geological Survey. Additional information (also from 1975) regarding activity at specific fault lines comes from California's Preliminary Fault Activity Map prepared by the California Division of Mines and Geology.

STREET AND ADDRESS INFORMATION

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Appendix C

Regulatory Agency Records



0 0.85 1.7 mi

0 1 2 km

Powered by

3/20/2024

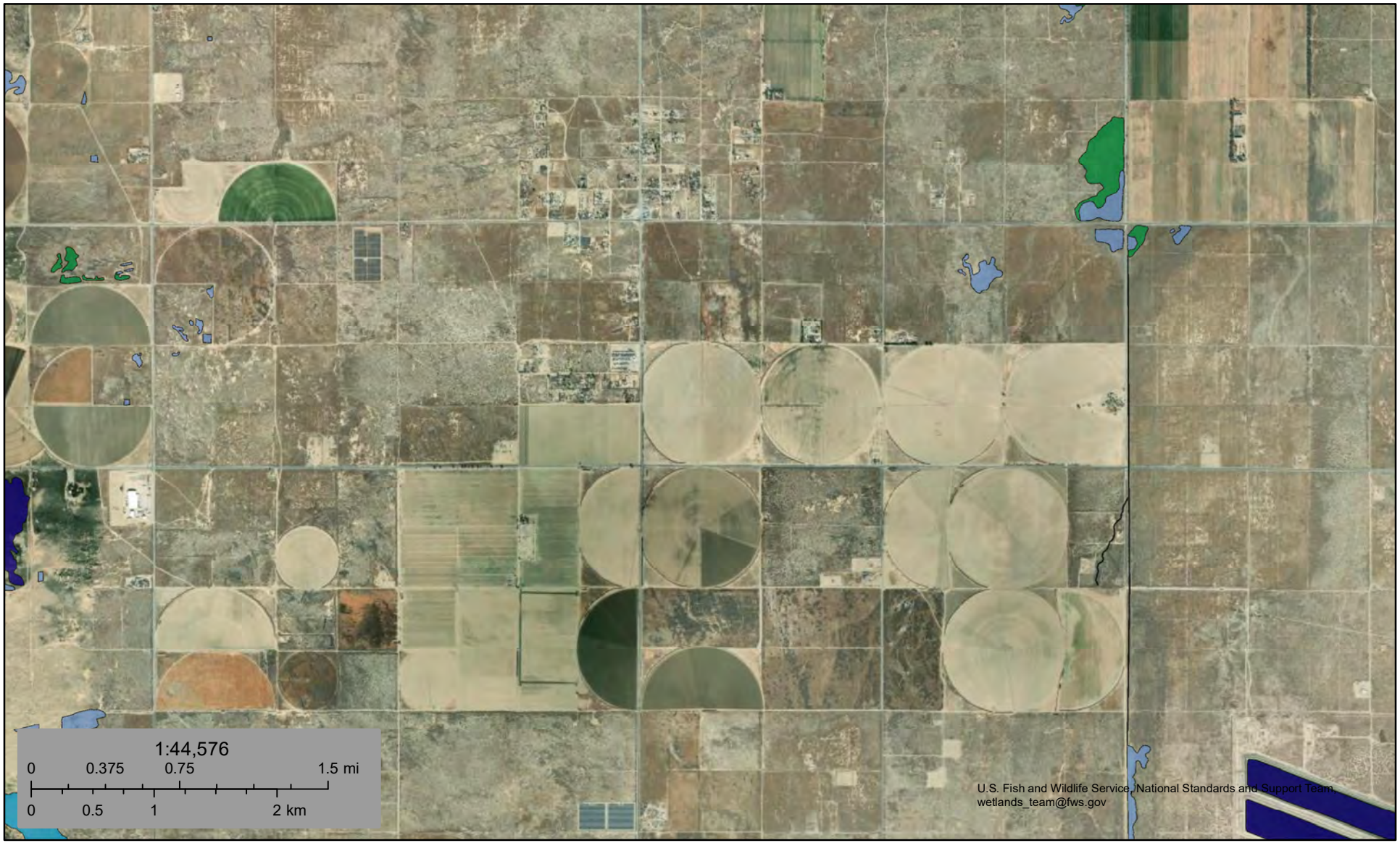
Well Status & Type

Geologic Energy Management Division
715 P Street, MS 1803
Sacramento, CA 95814
Phone: (916) 445-9686
Email: calgem_webmaster@conservation.ca.gov
www.conservation.ca.gov/calgem

California Natural Resources Agency
Department of Conservation

U.S. Fish and Wildlife Service
National Wetlands Inventory

Wetland Map



March 20, 2024

Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

To apply for an expedited residential solar or energy storage permit, click here.

Search for Permits

Enter information below to search for permits:

- **Permit Number**
- **Permit Type**
- **Permit Address**
- **APN**

Note: Any permits older than the year 2000 may be available by submitting a Public Records Request.

Please visit: https://www.cityoflancasterca.org/our-city/departments-services/city-clerk/request-for-public-records to submit a request.

General Search

Enter your search criteria below.

Permit Number:

Permit Type: --Select--

Street No.: From - To

Direction: --Select--

Street Name:

Street Type: --Select--

Unit Type: --Select--

Unit No.:

City:

State:

Zip:

APN: 3378003001

Search

Notice:
Your search returned no results. Please modify your search and try again. In order to view information related to your permits, you need to be logged into your account. C1LEC

Appendix D

Environmental Lien and AUL Search Report

Lancaster Parcel 3378-003-001
Not Reported
Lancaster, CA 93535

Inquiry Number: 7563392.9S
February 12, 2024

EDR Environmental Lien and AUL Search 1980

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Environmental Lien and AUL Search 1980

The EDR Environmental Lien and AUL Search 1980 report provides results from a search of available land title records for environmental cleanup liens and other activity and use limitations (AULs), such as engineering controls and institutional controls.

A network of professional, trained researchers, following established procedures, uses client supplied address and/or parcel information to:

- search for parcel number and/or legal description
- search for ownership information filed between 1980 and the most current publicly available date
- research official land title documents recorded at jurisdictional agencies such as recorders' offices, registries of deeds, county clerks' offices, etc.
- search for environmental encumbering instrument(s) filed between 1980 and the most current publicly available date
- provide a copy of any environmental encumbrance(s)
- provide a copy of the current deed when available

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

Property Archives, LLC researched and compiled the land title information contained in this EDR Environmental Lien and AUL Search 1980 report on behalf of EDR.



Property Archives

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EDR Environmental Lien and AUL Search 1980

TARGET PROPERTY INFORMATION

ADDRESS

Lancaster Parcel 3378-003-001
Not Reported
Lancaster, CA, 93535

PROPERTY DESCRIPTION

Parcel ID: 3378-003-001

Current Owner: BOLTHOUSE LAND COMPANY LLC

Legal Description: 156.38 ACS BEING EX OF STS NW 1/4 OF LOT/SEC 29 BLK/DIV/TWN 7N REG/RNG10

FINDINGS SUMMARY

The following is a summary of information contained in the report. Additional details may be found in the Findings Detail section.

Parcel: 3378-003-001

Environmental Lien: Found ☐ Not Found ☒

Other Activity and Use Limitations (AULs): Found ☐ Not Found ☒

HISTORICAL CHAIN of TITLE FROM 1980			
RECORDED	**INSTRUMENT**	**GRANTEE**	**GRANTOR**
January 25, 2018	0080001	Bolthouse Land Company, LLC	Bolthouse Properties, LLC
September 09, 2005	2175590	Bolthouse Properties, LLC	Bolthouse Properties, Inc.
September 09, 2005	2175589	Bolthouse Properties, Inc.	WM Bolthouse Farms, Inc.
May 31, 2001	0938613	WM Bolthouse Farms, Inc.	SAITO YUKIE TRUST
May 31, 2001	0938612	SAITO YUKIE TRUST	SAITO KANAME TRUST
February 28, 1990	325658	SAITO KANAME & SAITO YUKIE	SAITO KANAME

RESEARCH SOURCE(S)

The following research sources were reviewed from January 01, 1980, to February 02, 2024. Based on available information evaluated by the title search professional, the jurisdiction does not require a search of judicial records to identify environmental liens.

EDR Environmental Lien and AUL Search 1980

FINDINGS DETAIL

Parcel: 3378-003-001

ENVIRONMENTAL LIEN

Environmental Lien: Found ☐ Not Found ☒

OTHER ACTIVITY AND USE LIMITATIONS (AULs)

Other AULs: Found ☐ Not Found ☒

MISCELLANEOUS DOCUMENTS

None

HISTORICAL CHAIN OF TITLE FROM 1980

Parcel ID: 3378-003-001

DEED TYPE:	Grant Deed
GRANTEE:	Bolthouse Land Company, LLC
GRANTOR:	Bolthouse Properties, LLC
DATE EXECUTED:	December 31, 2017
DATE RECORDED:	January 25, 2018
INST. NO.:	2018-0080001

DEED TYPE:	Grant Deed
GRANTEE:	Bolthouse Properties, LLC
GRANTOR:	Bolthouse Properties, Inc.
DATE EXECUTED:	June 03, 2005
DATE RECORDED:	September 09, 2005
INST. NO.:	2005-2175590

DEED TYPE:	Grant Deed
GRANTEE:	Bolthouse Properties, Inc.
GRANTOR:	WM Bolthouse Farms, Inc.
DATE EXECUTED:	June 06, 2005

EDR Environmental Lien and AUL Search 1980

DATE RECORDED:	September 09, 2005
BOOK / PAGE:	2005-2175589

DEED TYPE:	Grant Deed
GRANTEE:	WM Bolthouse Farms, Inc.
GRANTOR:	SAITO YUKIE TRUST
DATE EXECUTED:	May 04, 2001
DATE RECORDED:	May 31, 2001
INST. NO.:	2001-0938613

DEED TYPE:	Grant Deed
GRANTEE:	SAITO YUKIE TRUST
GRANTOR:	SAITO KANAME TRUST
DATE EXECUTED:	January 23, 2001
DATE RECORDED:	May 31, 2001
INST. NO.:	2001-0938612

DEED TYPE:	Grant Deed
GRANTEE:	SAITO KANAME & SAITO YUKIE
GRANTOR:	SAITO KANAME
DATE EXECUTED:	January 30, 1990
DATE RECORDED:	February 28, 1990
INST. NO.:	1990-325658

*Public records of Los Angeles County, California were searched from January 1, 1980 through February 2, 2024 and no other deeds vesting title in the subject property were located during the period searched.

EDR Environmental Lien and AUL Search 1980

CURRENT DEED EXHIBIT(S)

This page is part of your document - DO NOT DISCARD

20180080001

Recorded/Filed in Official Records
Recorder's Office, Los Angeles County,
California

01/25/18 AT 08:14AM

Pages:
0004

FEES:	37.00
TAXES:	0.00
OTHER:	0.00
SB2:	75.00
PAID:	112.00

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201801252830039

00014769724

008841747

SEQ:
13

DAR - Mail (Intake)

THIS FORM IS NOT TO BE DUPLICATED

E621013

RECORDING REQUESTED BY:
Ticor Title Company of California

When Recorded Mail Document and Tax Statement To:

BOLTHOUSE LAND COMPANY, LLC
11601 BOLTHOUSE DRIVE,
SUITE 200
BAKERSFIELD, CA 93311

Document Number:14769724
Batch Number:8841747

APN: 3378-003-001

GRANT DEED

The undersigned grantor(s) declare(s)
Documentary transfer tax is $__**
[ ] computed on full value of property conveyed, or
[ ] computed on full value less value of liens or encumbrances remaining at time of sale,
[XX] Unincorporated Area County of **Los Angeles**
[ ] City of _____,

FOR A VALUABLE CONSIDERATION, receipt of which is hereby acknowledged,

Bolthouse Properties, LLC, a California limited liability company

hereby GRANT(S) to **Bolthouse Land Company, LLC, a California limited liability company**

the following described real property in the **unincorporated area,** County of **Los Angeles,** State of **California:**

SEE EXHIBIT "A" ATTACHED HERETO AND MADE A PART HEREOF

**Exempt under R&T 11925(d). The Grantors and the Grantees in this conveyance are comprised of the same parties who continue to hold the same proportionate interest in the property.

Dated: December 31, 2017

Bolthouse Properties, LLC,
a California limited liability company

By: Anthony L. Leggio, President

MAIL TAX STATEMENTS AS DIRECTED ABOVE

ACKNOWLEDGEMENT

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

STATE OF CALIFORNIA)
)**ss.**
COUNTY OF KERN)

On January 2, 2018 before me, Nancy E. Vogel, Notary Public, personally appeared ANTHONY L. LEGGIO, who proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

NANCY E. VOGEL
COMM. #2163483
NOTARY PUBLIC • CALIFORNIA
KERN COUNTY
My Comm. Exp. Sep 21, 2020

Nancy E Vogel
Notary Public

MAIL TAX STATEMENTS AS DIRECTED ABOVE

EXHIBIT "A"
LEGAL DESCRIPTION

The Northwest Quarter of Section 29, Township 7 North, Range 10 West, San Bernardino Base and Meridian, in the Unincorporated Area of the County of Los Angeles, State of California, according to the Official Plat of said land.

Appendix E

Historical Research Documentation

Lancaster Parcel 3378-003-001

Not Reported

LANCASTER, CA 93535

Inquiry Number: 7563392.12

February 08, 2024

The EDR Aerial Photo Decade Package

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Aerial Photo Decade Package

02/08/24

Site Name:	Client Name:
Lancaster Parcel 3378-003-001	NV5
Not Reported	3777 Long Beach Blvd
LANCASTER, CA 93535	Long Beach, CA 90807-0000
EDR Inquiry # 7563392.12	Contact: Eric Fraske

Environmental Data Resources, Inc. (EDR) Aerial Photo Decade Package is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's professional researchers provide digitally reproduced historical aerial photographs, and when available, provide one photo per decade.

Search Results:

Year	Scale	Details	Source
2020	1"=500'	Flight Year: 2020	USDA/NAIP
2016	1"=500'	Flight Year: 2016	USDA/NAIP
2012	1"=500'	Flight Year: 2012	USDA/NAIP
2009	1"=500'	Flight Year: 2009	USDA/NAIP
2005	1"=500'	Flight Year: 2005	USDA/NAIP
2003	1"=500'	Flight Date: May 26, 2003	USDA
1994	1"=500'	Acquisition Date: May 28, 1994	USGS/DOQQ
1983	1"=500'	Flight Date: November 03, 1983	EDR Proprietary Brewster Pacific
1981	1"=500'	Flight Date: February 18, 1981	EDR Proprietary Brewster Pacific
1977	1"=500'	Flight Date: February 14, 1977	EDR Proprietary Brewster Pacific
1970	1"=500'	Flight Date: March 19, 1970	EDR Proprietary Brewster Pacific
1968	1"=500'	Flight Date: March 25, 1968	Teledyne
1953	1"=500'	Flight Date: April 15, 1953	USDA
1948	1"=500'	Flight Date: November 20, 1948	USDA
1940	1"=500'	Flight Date: May 02, 1940	USDA
1928	1"=500'	Flight Date: January 01, 1928	FAIR

When delivered electronically by EDR, the aerial photo images included with this report are for ONE TIME USE ONLY. Further reproduction of these aerial photo images is prohibited without permission from EDR. For more information contact your EDR Account Executive.

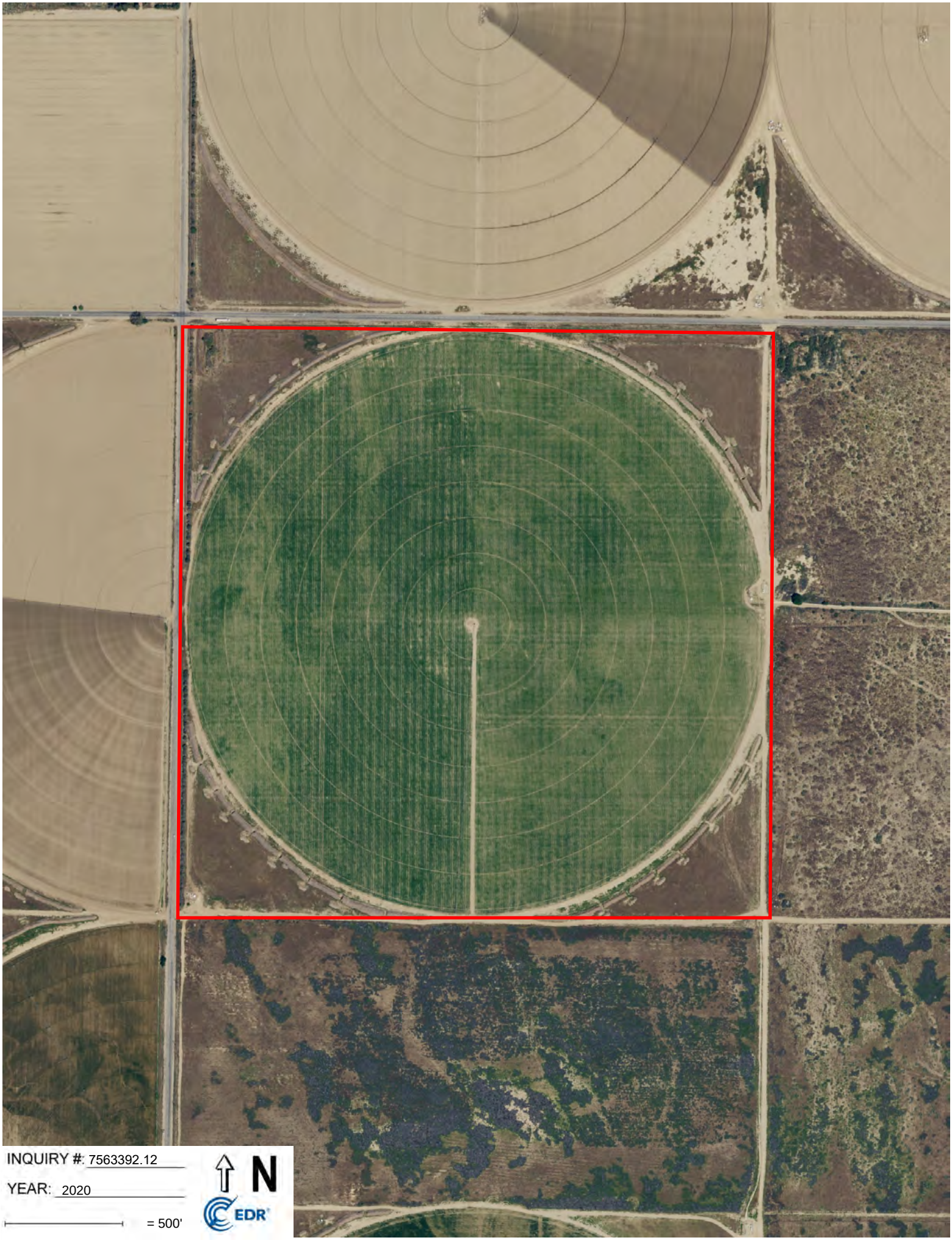
Disclaimer - Copyright and Trademark Notice

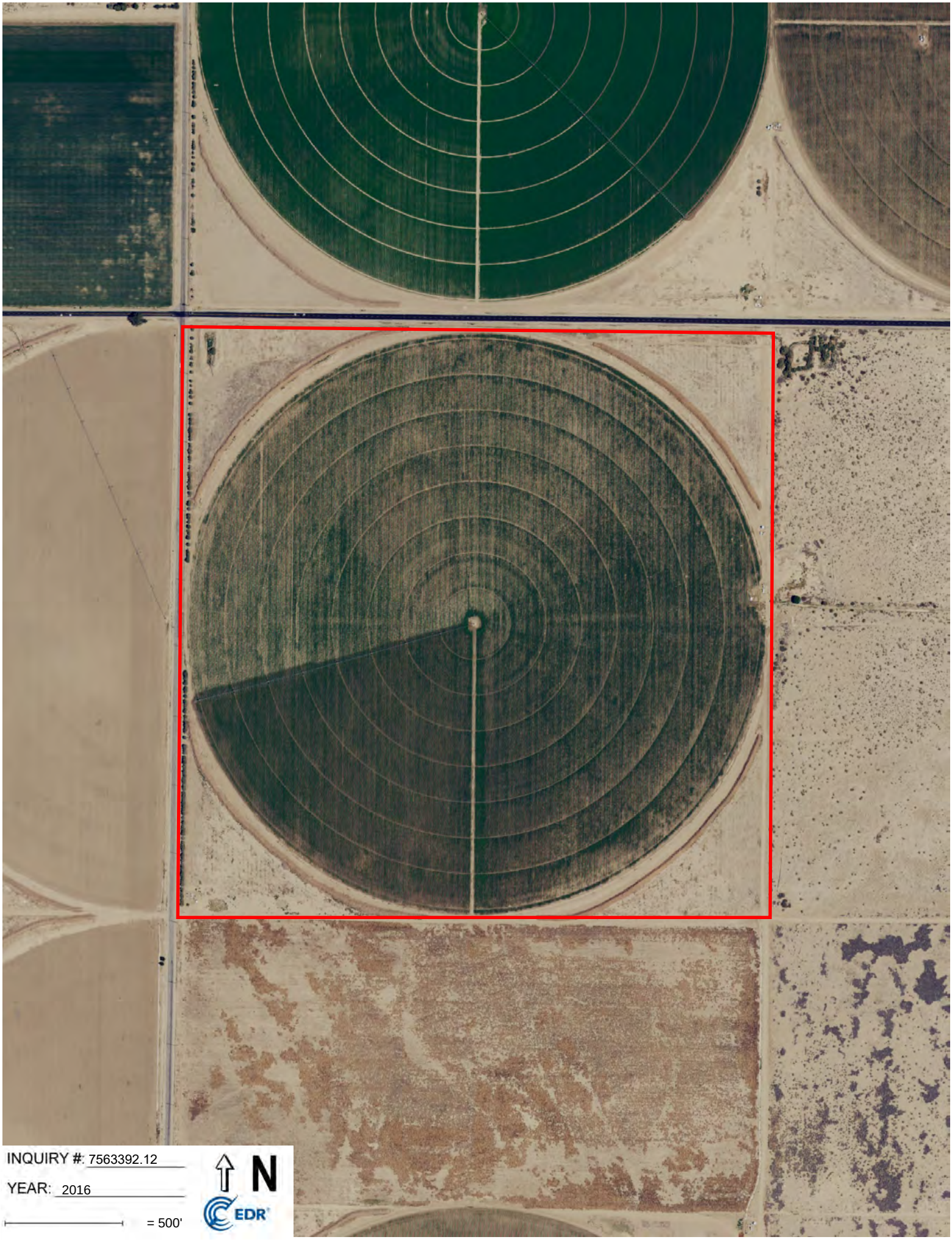
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INQUIRY #: 7563392.12
YEAR: 2020
= 500'
N
EDR



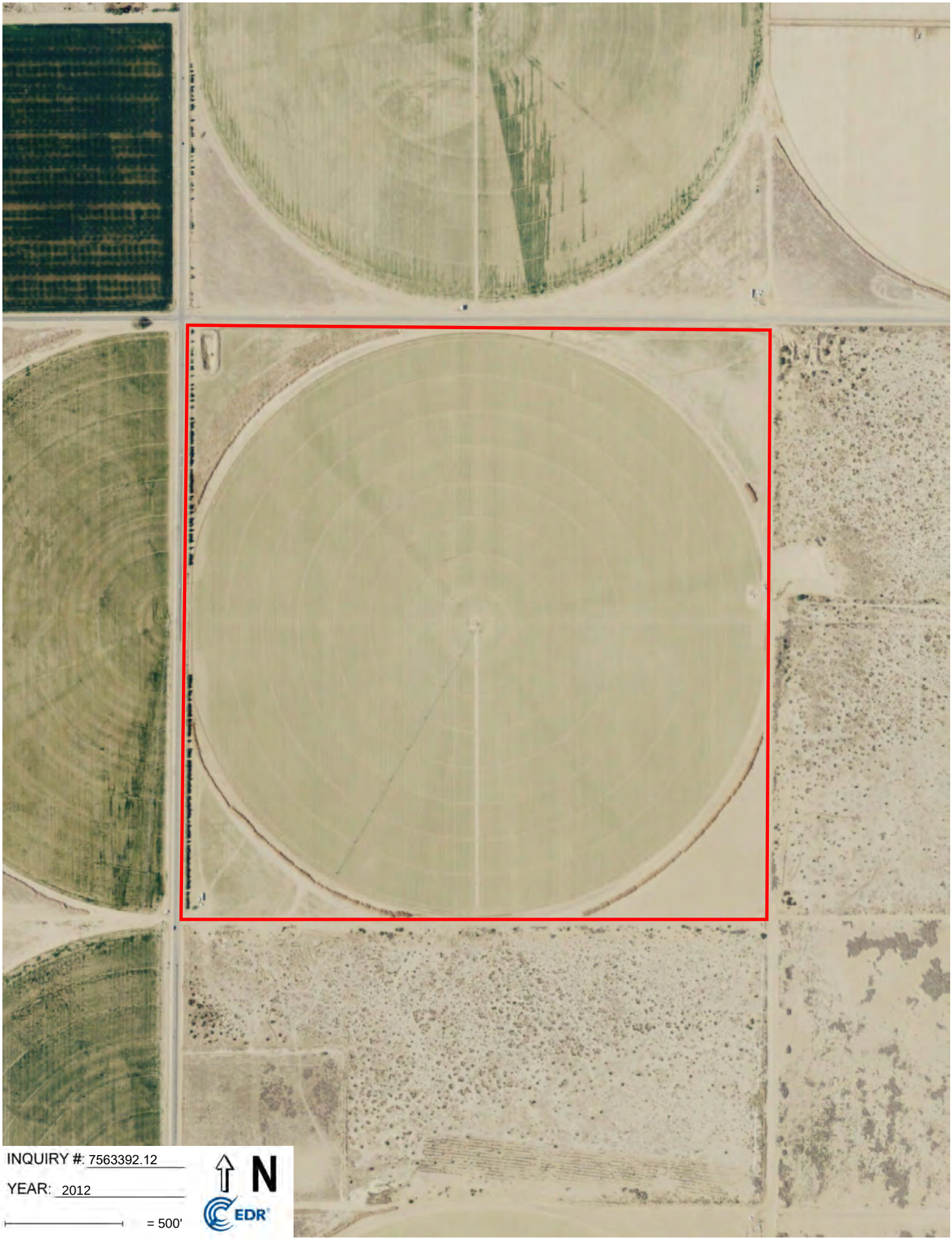
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YEAR: 2016

= 500'

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EDR



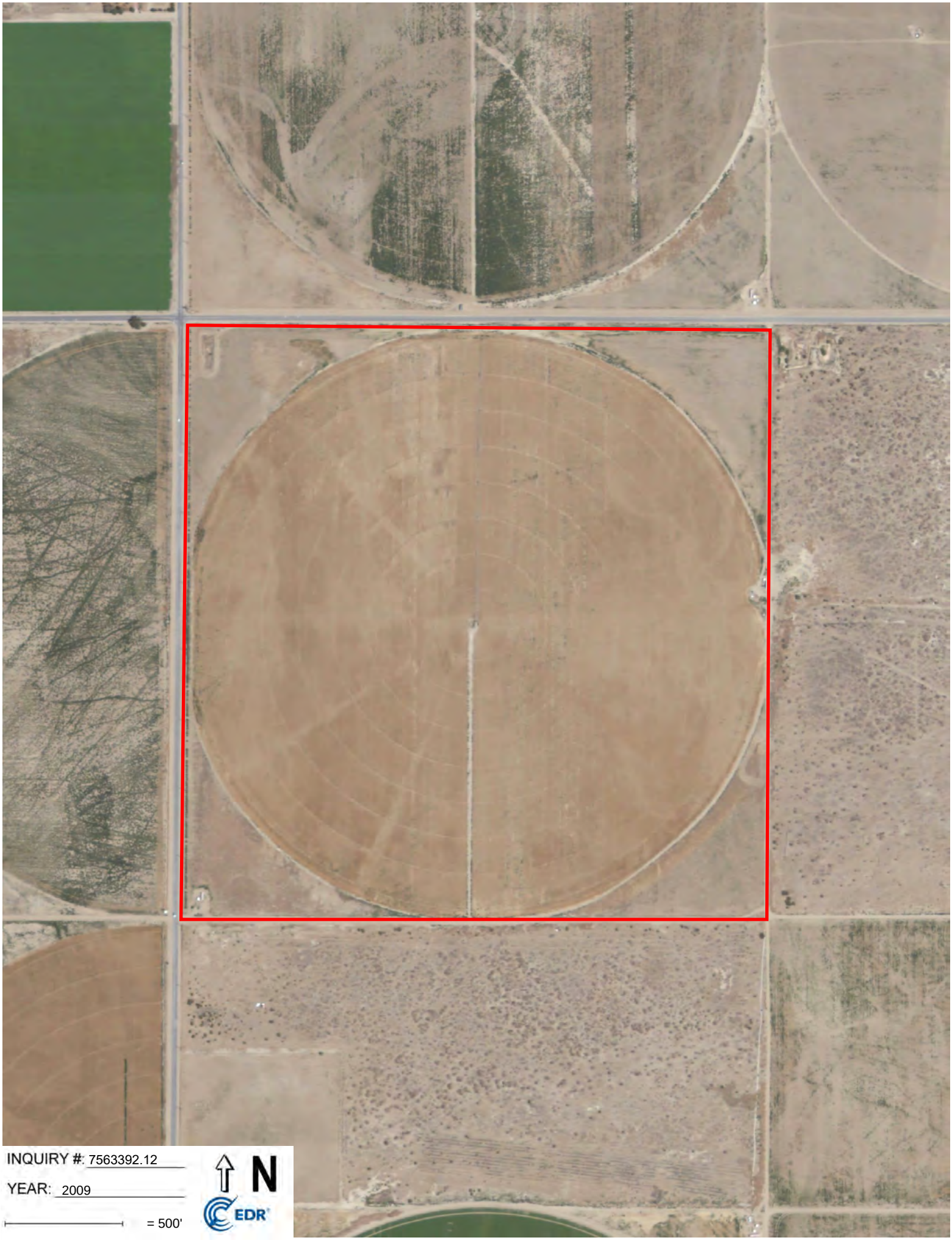
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YEAR: 2012

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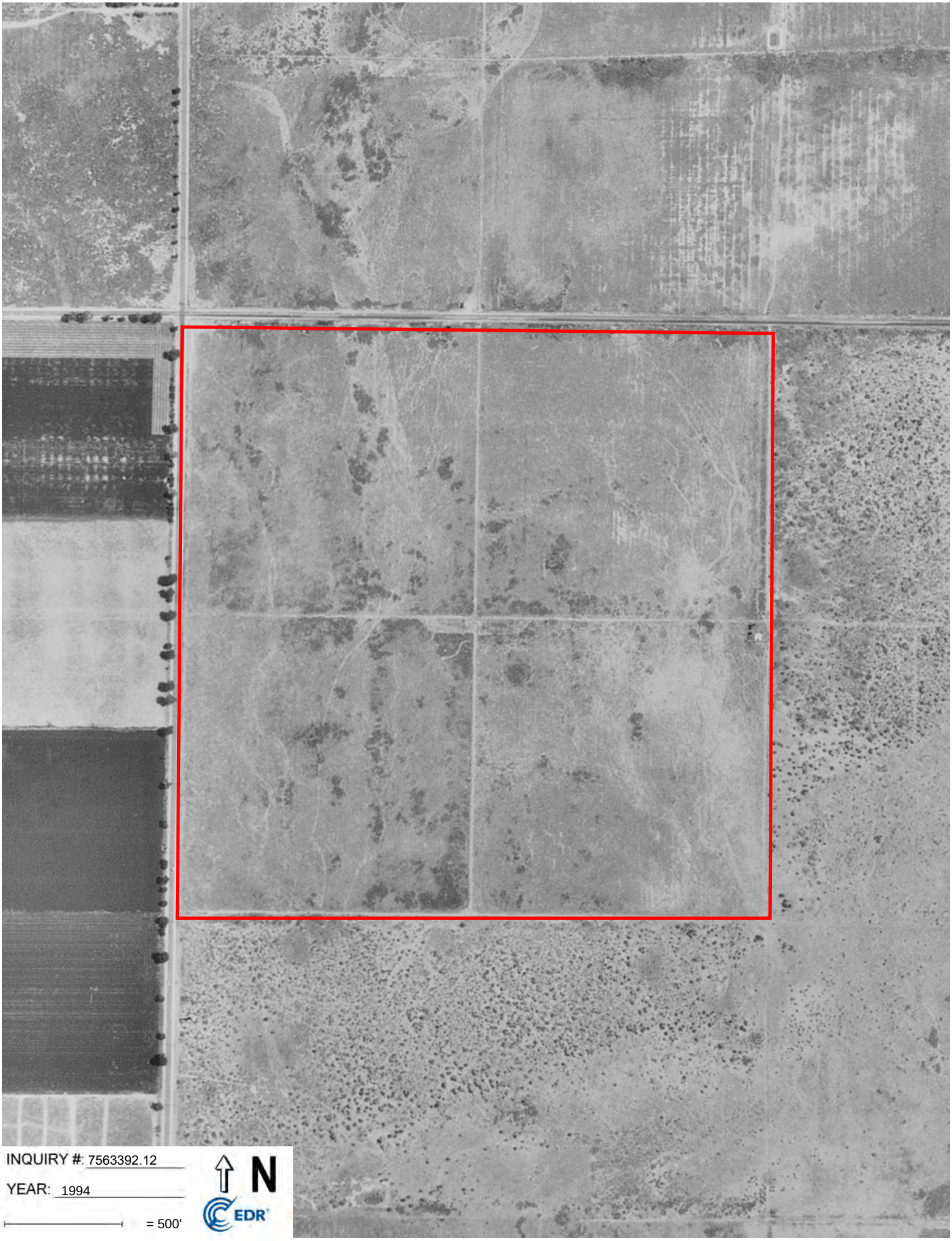
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EDR


INQUIRY #: 7563392.12
YEAR: 2009
= 500'
N
EDR


INQUIRY #: 7563392.12
YEAR: 2005
= 500'
N
EDR


INQUIRY #: 7563392.12
YEAR: 2003
= 500'
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EDR


INQUIRY #: 7563392.12
YEAR: 1994
= 500'
N
EDR



INQUIRY #: 7563392.12

YEAR: 1983

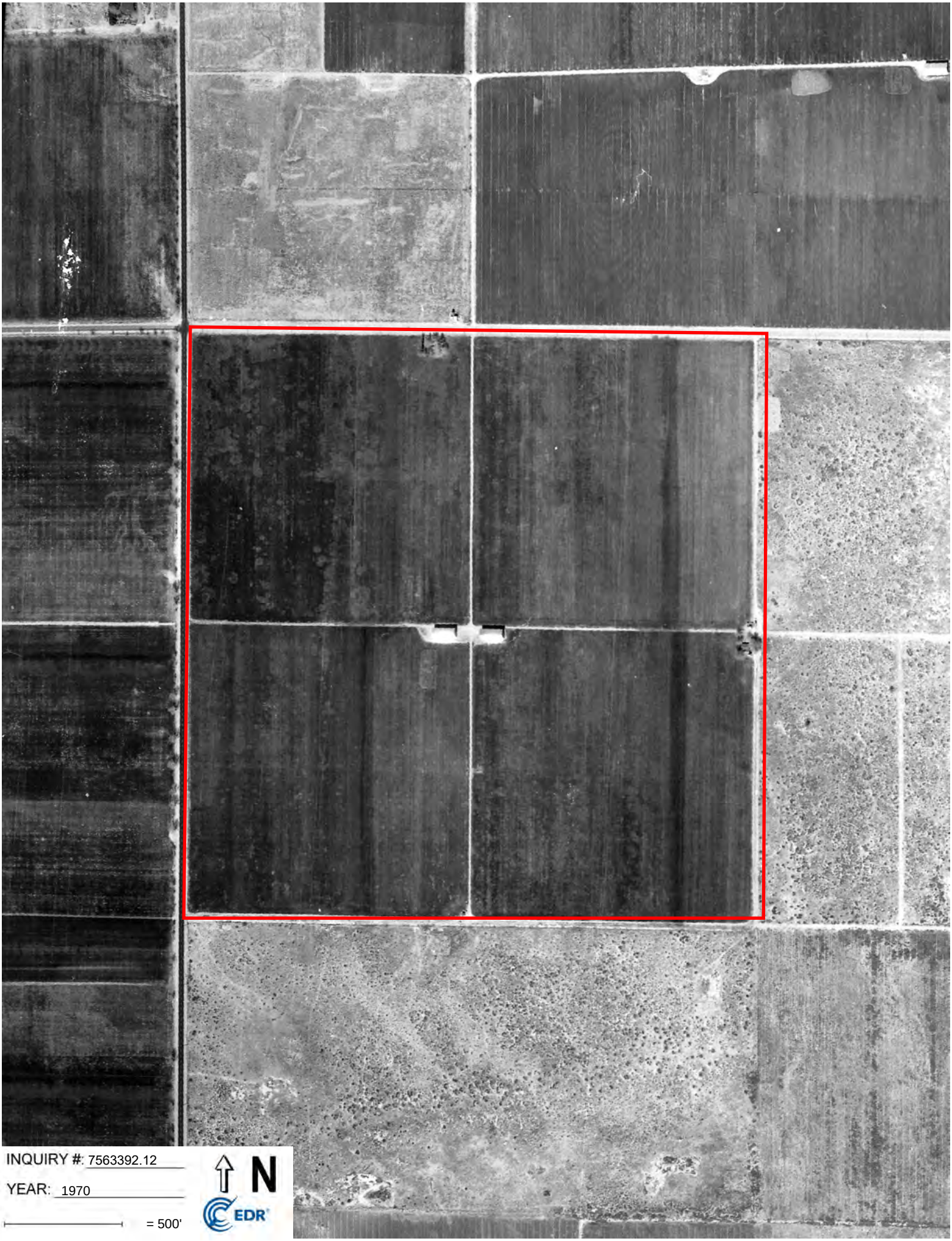
= 500'

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EDR


INQUIRY #: 7563392.12
YEAR: 1981
= 500'
N
EDR


INQUIRY #: 7563392.12
YEAR: 1977
= 500'
N
EDR


INQUIRY #: 7563392.12
YEAR: 1970
= 500'
N
EDR



INQUIRY #: 7563392.12

YEAR: 1968

= 500'

N

EDR


INQUIRY #: 7563392.12
YEAR: 1953
= 500'
N
EDR



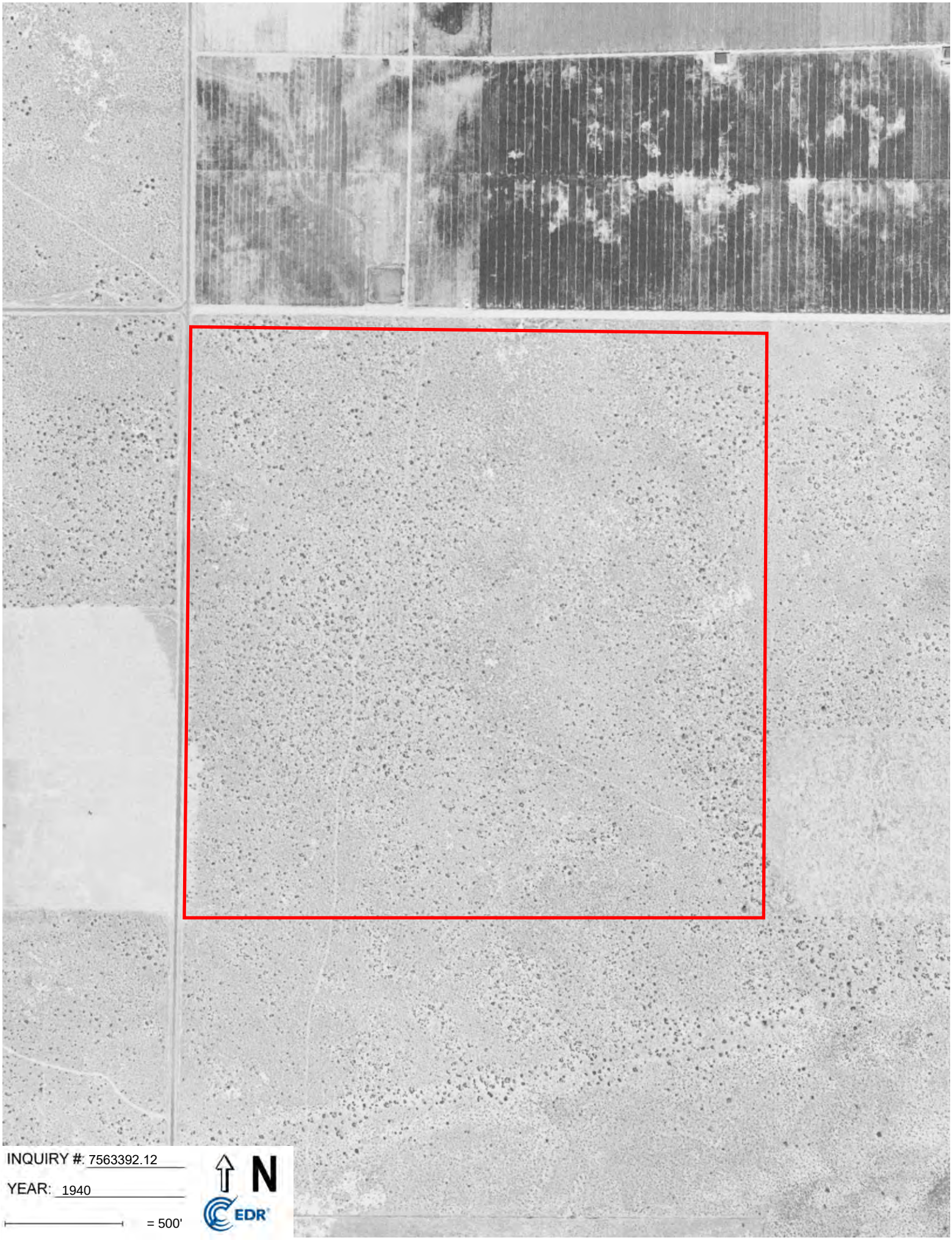
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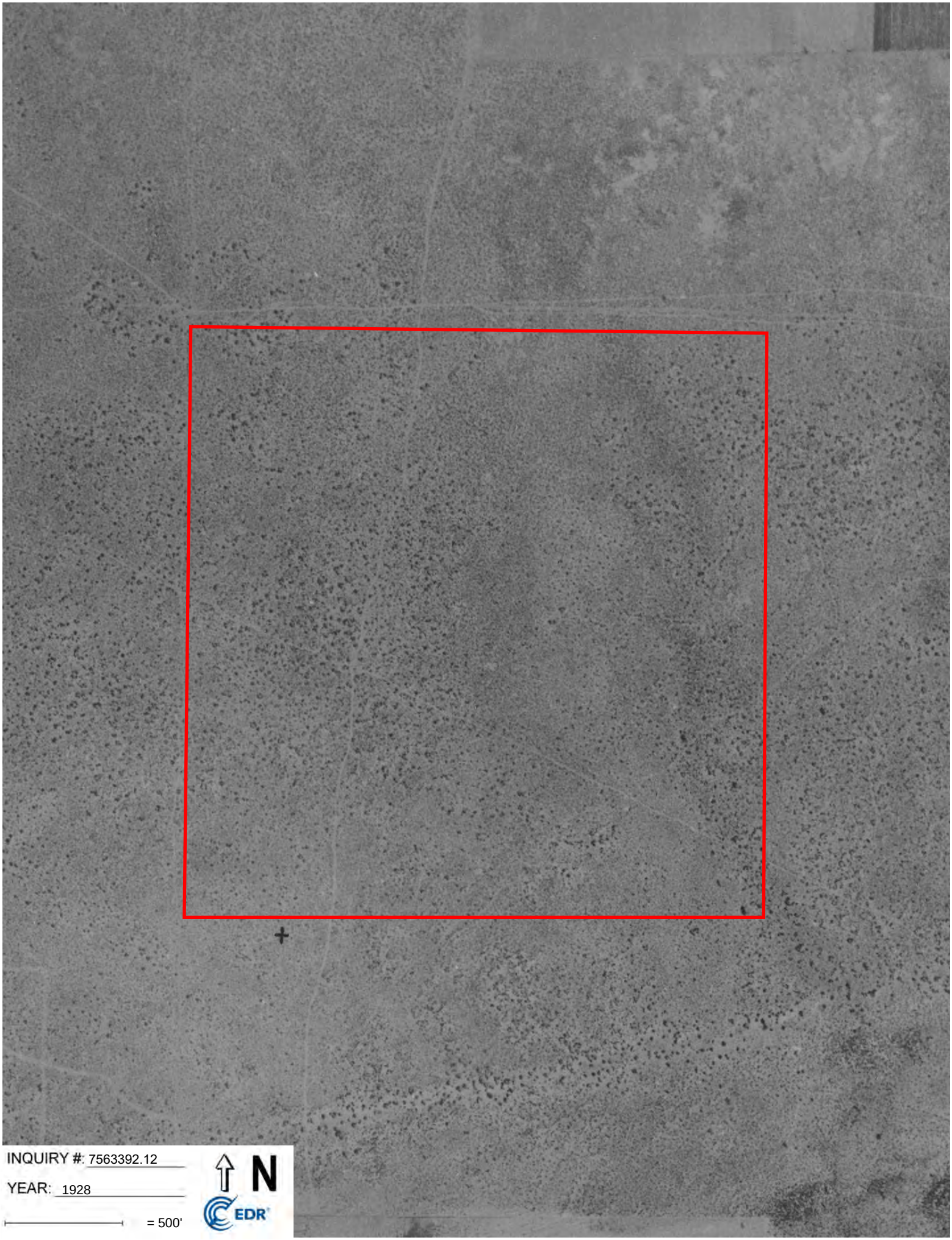
YEAR: 1948

= 500'

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EDR


INQUIRY #: 7563392.12
YEAR: 1940
= 500'
N
EDR


INQUIRY #: 7563392.12
YEAR: 1928
= 500'
N
EDR

Lancaster Parcel 3378-003-001
Not Reported
LANCASTER, CA 93535

Inquiry Number: 7563392.6
February 09, 2024

The EDR-City Directory Image Report

EDR® Environmental Data Resources Inc

6 Armstrong Road
Shelton, CT 06484
800.352.0050
www.edrnet.com

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City Directory Images

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EXECUTIVE SUMMARY

DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Report is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Report includes a search of available business directory data at approximately five year intervals.

RECORD SOURCES

The EDR City Directory Report accesses a variety of business directory sources, including Haines, InfoUSA, Polk, Cole, Bresser, and Stewart. Listings marked as EDR Digital Archive access Cole and InfoUSA records. The various directory sources enhance and complement each other to provide a more thorough and accurate report.

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RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. A check mark indicates where information was identified in the source and provided in this report.

Year	*Target Street*	*Cross Street*	*Source*
2020	☑	☐	EDR Digital Archive
2017	☐	☐	Cole Information
2014	☑	☐	Cole Information
2010	☑	☐	Cole Information
2005	☑	☐	Cole Information
2000	☑	☐	Cole Information
1995	☑	☐	Cole Information
1992	☑	☐	Cole Information
1987	☑	☐	Haines Criss-Cross Directory
1982	☑	☐	Haines Criss-Cross Directory
1976	☑	☐	Haines Criss-Cross Directory
1971	☑	☐	B & G City Directory

FINDINGS

TARGET PROPERTY STREET

Not Reported
LANCASTER, CA 93535

Year	*CD Image*	*Source*	
90TH ST E			
2020	pg A2	EDR Digital Archive	
2017	-	Cole Information	Target and Adjoining not listed in Source
2014	pg A5	Cole Information	
2010	pg A6	Cole Information	
2005	pg A7	Cole Information	
2000	pg A8	Cole Information	
1995	pg A9	Cole Information	
1992	pg A10	Cole Information	
1987	pg A11	Haines Criss-Cross Directory	
1987	pg A12	Haines Criss-Cross Directory	
1982	pg A13	Haines Criss-Cross Directory	
1976	pg A14	Haines Criss-Cross Directory	
1976	pg A15	Haines Criss-Cross Directory	
1971	pg A16	B & G City Directory	
E 90TH ST			
2020	pg A4	EDR Digital Archive	

FINDINGS

CROSS STREETS

No Cross Streets Identified

City Directory Images

Target Street	Cross Street	Source
✓	-	EDR Digital Archive

90TH ST E 2020

43803	DONALD EATON
	HELEN JOHNSON
43805	JOHN FURUBOTTEN
	JOSE PANCHAME
	LEAH FURUBOTTEN
43807	JACK HARVEY
	NORMA HARVEY
	SCOTT HARVEY
43841	CARVEL BROWN
	CARVEL MELODY
	GRIZELDA LOPEZ
43843	KATHRYN MEJIA
	PEDRO MEJIA
	SCOTT TERUYA
43847	MARJIE KING
43907	NICOLE TINSLEY
	STEVEN SILVA
43909	JIHAN HOLLMAN
	MARIA HOLLMAN
43911	CHARLES TONA
	DESIRAY TONA
	JULIE TONA
	TOMMY TONA
44005	MARIO RAMIREZ
44127	DOROTHY DELIA
	JOHN RUSK
	JOSEPH DELIA
44161	JOHN RUSK
	WILLIAM DAIMANT
44434	JOHN HOUGHTON
44560	ANAIT ALTUNYAN
	OGANES ALTUNYAN
44611	DAVID FRANZ
	SHANNON FRANZ
	WILLIAM FRANZ
44612	DIANA GINN
	MICHAEL LEWIS
44628	JOHN GIRDLESTONE
	KELSEY THOMPSON
	LYNN GIRDLESTONE
	RICHARD THOMPSON
	SHARON GIRDLESTONE
44636	DANIEL SCHELL
	GENEVA SCHELL
	NICHOLAS SCHELL
	VICTORIA SCHELL
44650	CYNTHIA ROTH
44733	DANIEL HERZOG
	FRANKLIN LOVELL
	SHERRI HERZOG

Target Street	Cross Street	Source
✓	-	EDR Digital Archive

90TH ST E 2020 (Cont'd)

44808	WILLIAM TATONE
45521	REGINA BROWN
48454	AMANDA HELLWIG
48456	JOSE GONZALEZ
48464	GERALDINE DRAKE
	OLIN DERRICK
48810	DANIEL LEMUS
	JOSE LEMUS
	MARIA LEMUS
48812	ALI VILLEGAS
	IRENE VILLEGAS
	MANUEL VILLEGAS

Target Street	Cross Street	Source
✓	-	EDR Digital Archive

E 90TH ST 2020

43927 COPART SALVAGE AUTO AUCTIONS
44423 DIEM XUA RESTAURANT
44434 DRC PUMP SYSTEMS

Target Street	Cross Street	Source
✓	-	Cole Information

90TH ST E 2014

43803	EATON, DONALD L
43805	OCCUPANT UNKNOWN,
43807	HARVEY, JACK G
43841	OCCUPANT UNKNOWN,
43843	TERUYA, SCOTT
43847	KING, ALISEN
43907	VEINOT, JOSEPH
43909	STRATMAN, ADAIRE J
43911	KENNEDY, KESORN
43927	ECOLOGY AUTO PARTS
44051	FELIX, GRISELDA
44127	OWENS, JAMES
44161	WALKER, LEE E
44203	HUNT, DARRIN
44434	D R C PUMP SYSTEMS
44519	GUERRERO, PEDRO R
44529	GONZALEZ, LAURA
44560	ALTUNYAN, OGANES
44611	FRANZ, DAVID
44612	GINN, RONALD W
44628	GIRDLESTONE, KENT
44636	OCCUPANT UNKNOWN,
44650	ROTH, CYNTHIA K
44709	BRITO, O G
44733	HERZOG, DANIEL R
44808	TATONE, WILLIAM M
45521	ANDERSON, S
	GARZA, ALEX
	HERSTEIN, CHRISTOPHER L
	HUMPHREY, JULIE E
	OCCUPANT UNKNOWN,
	SALAZAR, RAUL
45763	WOOD, RICHARD A
47117	OCCUPANT UNKNOWN,
48408	OCCUPANT UNKNOWN,
48454	MARTINEZ, GABRIELA
48456	BRENNEMAN, LUELLA
48464	DRAKE, FRANCIS W
48601	OCCUPANT UNKNOWN,
48810	RUBIO, RUBEN
48812	ALONSO, ALI V
48814	MEZA, NIEVES
48816	POOL, GARY

Target Street	Cross Street	Source
✓	-	Cole Information

90TH ST E 2010

43803 EATON, DONALD L
43807 HARVEY, JACK G
43841 FLORES, OSCAR
OCCUPANT UNKNOWN,
43843 MEJIA, PEDRO J
43845 READING, SUN Y
43847 KING, JESSU
43907 VEINOT, LINDA C
43909 STRATMAN, ADAIRE J
43911 ANDREPONT, TODD V
STEFFAN, MICHAEL W
44051 RAMIREZ, MARIO
44127 DELIA, JOSEPH E
44203 OCCUPANT UNKNOWN,
44207 DELIA, SOO
44434 DRC PUMP SYSTEMS
44529 JONES, TODD
44560 ALTUNYAN, OGANES
44611 PAPE, THEODORE D
44612 GINN, RONALD W
44628 GIRDLESTONE, JOHN K
44636 OCCUPANT UNKNOWN,
44709 ADELAR, MARIA F
44733 HERZOG, DANIEL R
44808 TATONE, WILLIAM M
45521 ANDERSON, S
GARZA, ALEX
HERSTEIN, ROXANNE
WHEELER, DANIELLE
45763 WOOD, RICHARD A
47117 OCCUPANT UNKNOWN,
47123 RODRIGUEZ, JORGE A
48408 OCCUPANT UNKNOWN,
48454 HELLWIG, AMANDA
48456 OCCUPANT UNKNOWN,
48464 DRAKE, FRANCIS W
48601 OCCUPANT UNKNOWN,
48810 RUBIO, RUBEN
48812 VILLEGAS, ALI
48814 MEZA, NIEVES
48816 POOL, GARY

Target Street	Cross Street	Source
✓	-	Cole Information

90TH ST E 2005

43803	EATON, DONALD L
43805	FURUBOTTEN, JON O
43807	HARVEY, JACK G
43841	BROWN, CHARLES R
43843	ASSET PROPERTIES
	MOORE, MATTHEW A
43845	READING, STEVEN K
43847	KING, MARJIE K
43907	VEINOT, LINDA C
43909	STRATMAN, ADAIRE J
43911	ANDREPONT, TODD V
	NUCKLES, DELORIS M
43927	OCCUPANT UNKNOWN,
44051	SHERMAN, WILLIE R
44127	RUSK, JOHN
44161	DELIA, JOSEPH E
44207	DELIA, MICHAEL A
44423	RIDING ON A WING & A PRAYER BAR & GR
44529	KIBBY, ROGER L
44611	FRANZ, WILLIAM
44612	GINN, RONALD W
44628	GIRDLESTONE, JOHN K
44636	OCCUPANT UNKNOWN,
44709	WARD, JOSEPH C
44733	HERZOG, DANIEL R
44808	TATONE, WILLIAM M
45521	ANDERSON, S
	DURAN, RUDY
	MONTERROSA, JESSICA
	OCCUPANT UNKNOWN,
	WILLIAMS, C
45763	WOOD, RICHARD A
47117	OCCUPANT UNKNOWN,
47123	RODRIGUEZ, JORGE A
47129	MORALES, JOSE
48408	OCCUPANT UNKNOWN,
48454	OCCUPANT UNKNOWN,
48456	HERNANDEZ, MARIA D
48464	DRAKE, FRANCIS W
48601	DEAN, DONALD L
48812	SKINNER, DON R
48814	LOPEZ, YUCAYDI

Target Street	Cross Street	Source
✓	-	Cole Information

90TH ST E 2000

43803	JOHNSON, JACKIE D
43805	VANPROVEN, SEAN D
43807	HARVEY, JACK G
43841	BROWN, LORENA F
43845	READING, STEVEN
43847	KING, ROBERT T
43907	OCCUPANT UNKNOWN,
43909	STRATMAN, RONALD
43911	ANDREPORT, T
	BERGER, DAN
	NUCKLES, DELORIS M
43927	OCCUPANT UNKNOWN,
44005	DELIA, JOE E
44051	OCCUPANT UNKNOWN,
44127	DELIA, JOSEPH
	KNIGHT, PAULINE
44203	DAWSON, WILLIAM M
44207	OCCUPANT UNKNOWN,
44519	SOWERS, ARNOLD J
44529	OCCUPANT UNKNOWN,
44611	OCCUPANT UNKNOWN,
44612	GINN, RONALD W
44636	OCCUPANT UNKNOWN,
44709	WARD, JOSEPH C
44733	OCCUPANT UNKNOWN,
44808	OCCUPANT UNKNOWN,
45521	NEWBERN, VALERIE
45763	WOOD, RICHARD A
47117	BOWMAN, RYAN
47123	BOBADILLA, MIGUEL A
47129	MORALES, JOSE
48406	U-HAUL COMPANY INDEPENDENT DEALERS
48408	MATHEWS, DOUGLAS E
48454	LOPEZ, MARIA D
48456	OCCUPANT UNKNOWN,
48464	DRAKE, FRANCIS W
48810	OCCUPANT UNKNOWN,
48814	ATKINSON, MERSHON M
	WINTERS, ROBERT

Target Street	Cross Street	Source
✓	-	Cole Information

90TH ST E 1995

43803 JOHNSON, HELEN
43805 JOHNSON, GLEN E
43807 HARVEY, JACK G
43841 BAKER CO
SUMMIT, LESTER L
43843 ADAMS, MATT
43845 READING, STEVEN
43847 KING, ROBERT T
43907 OCCUPANT UNKNOWNN
43909 OCCUPANT UNKNOWNN
43911 NUCKLES, DELORIS M
43927 GLENDALE AUTO PARTS INC
44005 DELIA, JOE E
44051 DELIA, JOE
44127 DELIA, JOSEPH
KNIGHT, CARL
44161 SHEPPARD, RUTH
44207 OCCUPANT UNKNOWNN
44434 DALES AUTO CLINIC
44440 D & R TIRES
DALES AUTO CLINIC & SON
44519 SOWERS, ARNOLD J
44529 KIBBY, ROGER L
44538 LESTER, DREW
44611 FLASCH, LOUIS J
44612 GINN, RONALD W
44628 ZABORAC, TIM
44636 OCCUPANT UNKNOWNN
44650 HARRIS, DOROTHY
44709 AUSTIN, R O
44733 OCCUPANT UNKNOWNN
45521 KENN, PAUL
45763 WOOD, RICHARD A
46701 OCCUPANT UNKNOWNN
47117 HAROLD, PEARLIE M
47129 PATTERSON, JAMES M
48406 DESERT MARKET
OLDTIMERS RETREAT
48408 DRAKE, FRED W
48456 OCCUPANT UNKNOWNN
48464 DRAKE, FRANCIS W
48810 MERCER, GEORGE
48812 MULLIGAN, TERRY
48814 PARR, E
VIETHER, WILLIS
WINTERS, ROBERT

Target Street	Cross Street	Source
✓	-	Cole Information

90TH ST E 1992

43803	JOHNSON, HELEN
43807	HARVEY, JACK G
43841	BAKER CO
	BAKER, JOHN
43843	PECA, WALTER
43847	KING, ROBERT T
43909	STRATMAN, RONALD F
43927	GLENDL ATO PRTS INC
44051	DELIA, JOE
44127	DELIA, JOSEPH
44434	DALES AUTO CLINIC
44440	D&R TIRES
	DALES AUTO CLNC&SON
44519	SOWERS, ARNOLD J
44529	KIBBY, ROGER L
44538	LESTER, DREW
44611	FLASCH, LOUIS J
	HEGEL, HARRY
44612	GINN, RONALD W
44709	AUSTIN, R O
45763	WOOD, RICHARD A
48406	DESERT MARKET
	OLDTIMERS RETREAT
48408	DRAKE, FRED W
48601	JOINER, DAVID
48814	WINTERS, ROBERT

Target Street	Cross Street	Source
✓	-	Haines Criss-Cross Directory

90TH ST E 1987

90TH E 93535 LANCASTER

43803	JOHNSON Helen	946-1964	0
43805	XXXX	00	
43807	HARVEY Jeck G	946-1212	
43841	BAKER John	946-2170	3
43843	PECA Welter	946-1960	
43845	HANNIG Loie	946-1746	0
	READING Stevan	946-1193	9
43847	KING Robert T	946-1909	
43907	XXXX	00	
43909	STRATMAN Ronald F	946-1240	
43911	NUCKLES D M	946-1417	
43927	★GLENDALE AUTO PARTS	946-1076	
44005	★MCKILBEC CATTLE	946-3395	+7
44127	DELIA Jos	946-1525	
44161	XXXX	00	
44203	XXXX	00	
44423	★OLDTIMERS RETREAT	946-2236	4
44434	★DALES AUTO CLINIC	946-1986	
44440	★DALES AUTO CLNC&SON	946-1226	0
44519	SCWERS Arnold J	946-1492	
44529	KIBBY Rogar L	946-2766	5

Target Street	Cross Street	Source
✓	-	Haines Criss-Cross Directory

90TH ST E 1987

..90TH E			93535 CONT..	
44611	XXXX		00	
44612	GINN Ronald W		946-2142	9
44650	XXXX		00	
44709	AUSTIN R O		946-1544	
44733	POTTER Gary		946-1801	+7
45763	WOOD Richard A		946-1161	
47109	XXXX		00	
47117	XXXX		00	
47123	HUERTA Andres		946-1767	8
47129	PATTERSON Jea M		946-2664	
46406	★DESERT MARKET		946-1098	
A	★TAMMIS OFFICE		946-1903	3
48408	DRAKE Fred W		946-2437	3
48456	XXXX		00	
48464	XXXX		00	
48601	JOINER Devid		946-1002	+7
48810	XXXX		00	
48812	BYINGTON Rex H		946-2403	4
	SCHMIDT Allen		946-2921	6
	SCHMIDT Yunhe		946-2921	
	WINTERS Robt		946-2265	
48814	DARBEE Clillord		946-1962	8
★	7 BUS	36 RES	3 NEW	

Target Street	Cross Street	Source
✓	-	Haines Criss-Cross Directory

90TH ST E 1982

90TH E 93535 LANCASTER

43803	JOHNSON HELEN	946-1964	0
43805	XXXX	00	
43807	HARVEY JACK G	946-1212	3
43841	XXXX	00	
43843	PECA WALTER	946-1960	
43845	HANNIG LOIS	946-1746	0
	READING STEVEN	946-1193	9
43847	KING ROBERT T	946-1909	6
43907	XXXX	00	
43909	STRATMAN RONALD F	946-1240	
43911	NUCKLES O M	946-1417	
43927	GLENDALE AUTO PRTS	946-1076	7
	NUCKLES BROS	946-1076	7
44127	OELIA JOS	946-1525	3
44161	BYRNES VALERIE	946-2363	1
44203	XXXX	00	
44423	OLDTIMERS RETREAT	946-1536	1
44434	DALES AUTO CLINIC	946-1986	
44440	DALES AUTO CLNC&SON	946-1228	0
44519	SOWERS ARNOLD J	946-1492	4
44529	KIBBY ROGER	946-2290	1
44611	XXXX	00	
44612	GINN RONALD W	946-2142	9
44650	GROSS A A	946-3122	+2
44709	AUSTIN R O	946-1544	
44733	XXXX	00	
45521	WARD ROBT	946-2767	1
45763	WOOD RICHARD A	946-1161	3
47109	XXXX	00	
47117	SPRINGMAN EDW R	946-1096	
47123	HUERTA ANDRES	946-1767	8
47129	PATTERSON JAS M	946-2664	6
48406	DESERT MARKET	946-1098	
48408	DRAKE FRED W	946-1747	
48456	GARRETT JAS L	946-3108	+2
48464	XXXX	00	
48810	TUCKER B G	946-2612	+2
48812	SCHMIDT ALLEN G	946-1722	+2
	WINTERS ROBT	946-2265	3
48814	DARBEE CLIFFORD	946-1962	8

* 6 BUS 34 RES 4 NEW

Target Street	Cross Street	Source
✓	-	Haines Criss-Cross Directory

90TH ST E 1976

90TH E 93534 LANCASTER

43803	NUCKLES OTIS T	946-1579	4
43805	JOHNSON FAYE	946-2666	3
	JOHNSON GLEN E	946-2666	3
43807	HARVEY JACK G	946-1212	3
43841	*BAKERS WELOING	946-2170	+6
	*MCWILLIAMS SWP OST	946-2110	
43843	PECA WALTER	946-196D	
43845	PETERSON CORABELL	946-1193	4
43847	KING R T	946-1909	+6
43907	XXXX	00	
43909	STRATMAN RONALO F	946-1240	
43911	NUCKLES OELORIS M	946-1417	
43927	*GLENOALE AUTO PARTS	946-1916	4
	MACLAREN L S	946-2412	+6
	*NUCKLES BROS	946-1916	
44127	OELIA JOS	946-1525	3
44203	XXXX	00	
44423	*RETREAT THE	946-2540	5
44434	*OALES AUTO CLINIC	946-1986	
44519	SOWERS ARNOLO J	946-1492	4
44529	XXXX	00	
44611	CASIO B	946-1573	+6
44612	*KHAMEO ARABIAN FARM	946-1745	+6
44618	XXXX	00	
44709	AUSTIN R O	946-1544	
45521	GILBERT MARY	946-2548	4
45763	WOOO RICHARO A	946-1161	3
46403	XXXX	00	
47117	SPRINGMAN EOW R	946-1096	
47123	XXXX	00	
47129	PATTERSON JAS M	946-2664	+6

Target Street	Cross Street	Source
✓	-	Haines Criss-Cross Directory

90TH ST E 1976

..90TH E 93534 CONT..

48153 JOSEPHSON WAYNE 946-2507*6
48406*OESERT MARKET 946-1098
48408 ORAKE FREO W 946-1747
48456 XXXX 00
48464 CRUZAN CLYOE D 946-16DO
48810 8LACK ROD A 946-2129*6
48812 GRIFFITH GERALO 946-1925 4
WINTERS RO8T 946-2265 3
48814 XXXX 00
* 8 8US 32 RES 8 NEW

Target Street	Cross Street	Source
✓	-	B & G City Directory

90TH ST E 1971

90TH. EAST (LAN) 93534

43841 NUCKLES KEN WH6-1667
43843 THOMPSON H WH6-1377
43845 PETERSON C WH6-1193
43847 SELONKE H WH6-1283
43907 ROGERS A G WH6-1874
43909 STRATMAN R WH6-1240
43911 NUCKLES D WH6-1417
43927 GLENDALE AUTO PARTS
WH6-1916
44127 DUCA VINCENT WH6-1525
44161 PARKER DAVID WH6-1724
44423 RAY'S RESTRNT WH2-9347
44434 DALES AUTO CLINIC
WH6-1986
44519 HIEBERT DON WH6-1789
44519 1/2 CHABOT JOHN WH6-2039
44529 HOWARD OTIS WH6-1470
44611 TENSFELD F WH6-1538
44709 AUSTIN R WH6-1544
44733 REHMANN J WH6-1645
45763 BURLEY A E WH6-1189
ROBERTS FRANK WH6-2016
46403 ROAT FRANK WH6-1617
47109 SERUNTINE CONSTANCE
47117 SPRINGMAN E WH6-1096
47123 GUTIERREZ E WH6-1170
47129 RIDGWAY F WH6-1584
48153 MC CASLIN E WH6-1709
48406 DESERT MKT WH6-1098
48408 DRAKE FRED WH6-1747
48456 PATTERSON J WH6-1503
48464 CRUZAN CLYDE WH6-1600

Lancaster Parcel 3378-003-001
Not Reported
LANCASTER, CA 93535

Inquiry Number: 7563392.8
February 08, 2024

EDR Building Permit Report

Target Property and Adjoining Properties

Environmental Data Resources Inc

6 Armstrong Road
Shelton, CT 06484
800.352.0050
www.edrnet.com

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SECTION

About This Report

Executive Summary

Findings

Glossary

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EDR BUILDING PERMIT REPORT

About This Report

The EDR Building Permit Report provides a practical and efficient method to search building department records for indications of environmental conditions. Generated via a search of municipal building permit records gathered from more than 1,600 cities nationwide, this report will assist you in meeting the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E1527 - 21), or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

Building permit data can be used to identify current and/or former operations and structures/features of environmental concern. The data can provide information on a target property and adjoining properties such as the presence of underground storage tanks, pump islands, sumps, drywells, etc., as well as information regarding water, sewer, natural gas, electrical connection dates, and current/former septic tanks.

Methodology

EDR has developed the EDR Building Permit Report through our partnership with BuildFax, the nation's largest repository of building department records. BuildFax collects, updates, and manages building department records from local municipal governments. The database now includes 30 million permits, on more than 10 million properties across 1,600 cities in the United States.

The EDR Building Permit Report comprises local municipal building permit records, gathered directly from local jurisdictions, including both target property and adjoining properties. Years of coverage vary by municipality. Data reported includes (where available): date of permit, permit type, permit number, status, valuation, contractor company, contractor name, and description.

Incoming permit data is checked at seven stages in a regimented quality control process, from initial data source interview, to data preparation, through final auditing. To ensure the building department is accurate, each of the seven quality control stages contains, on average, 15 additional quality checks, resulting in a process of approximately 105 quality control "touch points."

For more information about the EDR Building Permit Report, please contact your EDR Account Executive at (800) 352-0050.

EDR® Environmental Data Resources Inc

BUILD FAX PROPERTY HISTORY

EXECUTIVE SUMMARY: SEARCH DOCUMENTATION

A search of building department records was conducted by Environmental Data Resources, Inc (EDR) on behalf of NV5 on Feb 08, 2024.

TARGET PROPERTY

Not Reported
LANCASTER, CA 93535

SEARCH METHODS

EDR searches available lists for both the Target Property and Surrounding Properties.

RESEARCH SUMMARY

Building permits identified: **NO PERMITS IDENTIFIED**

The following research sources were consulted in the preparation of this report. An "X" indicates where information was identified in the source and provided in this report.

Name: JurisdictionName
Years: Years
Source: Source
Phone: Phone

BUILDING DEPARTMENT RECORDS SEARCHED

Name: Lancaster
Years: 2001-2024
Source: City of Lancaster, Building and Safety Department, LANCASTER, CA
Phone: (661) 723-6144

Name: Los Angeles County
Years: 1970-2024
Source: Los Angeles County, Building and Safety, EL MONTE, CA
Phone: (626) 458-6368

TARGET PROPERTY FINDINGS

TARGET PROPERTY DETAIL

Not Reported
LANCASTER, CA 93535

No Permits Found

ADJOINING PROPERTY FINDINGS

ADJOINING PROPERTY DETAIL

The following Adjoining Property addresses were researched for this report. Detailed findings are provided for each address.

No Permits Found

GLOSSARY

General Building Department concepts

- **ICC:** The International Code Council. The governing body for the building/development codes used by all jurisdictions who've adopted the ICC guidelines. MOST of the US has done this. Canada, Mexico, and other countries use ICC codes books and guides as well. There are a few states who have added guidelines to the ICC codes to better fit their needs. For example, California has added seismic retrofit requirements for most commercial structures.
- **Building Department (Permitting Authority, Building Codes, Inspections Department, Building and Inspections):** This is the department in a jurisdiction where an owner or contractor goes to obtain permits and inspections for building, tearing down, remodeling, adding to, re-roofing, moving or otherwise making changes to any structure, Residential or Commercial.
- **Jurisdiction:** This is the geographic area representing the properties over which a Permitting Authority has responsibility.
- **GC:** General Contractor. Usually the primary contractor hired for any Residential or Commercial construction work.
- **Sub:** Subordinate contracting companies or subcontractors. Usually a "trades" contractor working for the GC. These contractors generally have an area of expertise in which they are licensed like Plumbing, Electrical, Heating and Air systems, Gas Systems, Pools etc. (called "trades").
- **Journeymen:** Sub contractors who have their own personal licenses in one or more trades and work for different contracting companies, wherever they are needed or there is work.
- **HVAC (Mechanical, Heating & Air companies):** HVAC = Heating, Ventilation, and Air Conditioning.
- **ELEC (Electrical, TempPole, TPole, TPower, Temporary Power, Panel, AMP Change, Power Release):** Electrical permits can be pulled for many reasons. The most common reason is to increase the AMPs of power in an electrical power panel. This requires a permit in almost every jurisdiction. Other commons reason for Electrical permits is to insert a temporary power pole at a new construction site. Construction requires electricity, and in a new development, power has yet to be run to the lot. The temporary power pole is usually the very first permit pulled for new development. The power is released to the home owner when construction is complete and this sometimes takes the form of a Power Release permit or inspection.
- **"Pull" a permit:** To obtain and pay for a building permit.
- **CBO:** Chief Building Official
- **Planning Department:** The department in the development process where the building /structural plans are reviewed for their completeness and compliance with building codes
- **Zoning Department:** The department in the development process where the site plans are reviewed for their compliance with the regulations associated with the zoning district in which they are situated.
- **Zoning District:** A pre-determined geographic boundary within a jurisdiction where certain types of structures are permitted / prohibited. Examples are Residential structure, Commercial/Retail structures, Industrial/Manufacturing structures etc. Each zoning district has regulations associated with it like the sizes of the lots, the density of the structures on the lots, the number of parking spaces required for certain types of structures on the lots etc.
- **PIN (TMS, GIS ID, Parcel#):** Property Identification Number and Tax Map System number.
- **State Card (Business license):** A license card issued to a contractor to conduct business.
- **Building Inspector (Inspector):** The inspector is a building department employee that inspects building construction for compliance to codes.
- **C.O.:** Certificate of Occupancy. This is the end of the construction process and designates that the owners now have permission to occupy a structure after its building is complete. Sometimes also referred to as a Certificate of Compliance.

GLOSSARY

Permit Content Definitions

- Permit Number: The alphanumerical designation assigned to a permit for tracking within the building department system. Sometimes the permit number gives clues to its role, e.g. a "PL" prefix may designate a plumbing permit.
- Description: A field on the permit form that allows the building department to give a brief description of the work being done. More often than not, this is the most important field for EP's to find clues to the prior use (s) of the property.
- Permit Type: Generally a brief designation of the type of job being done. For example BLDG-RES, BLDG-COM, ELEC, MECH etc.

Sample Building Permit Data

Date: Nov 09, 2000
Permit Type: Bldg -
New Permit Number: 101000000405
Status: Valuation: $1,000,000.00
Contractor Company: OWNER-BUILDER
Contractor Name:

Description: New one store retail (SAV-ON) with drive-thru pharmacy. Certificate of Occupancy.

Lancaster Parcel 3378-003-001

Not Reported

LANCASTER, CA 93535

Inquiry Number: 7563392.4

February 08, 2024

EDR Historical Topo Map Report

with QuadMatch™

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Historical Topo Map Report

02/08/24

Site Name:	Client Name:
Lancaster Parcel 3378-003-00´	NV5
Not Reported	3777 Long Beach Blvd
LANCASTER, CA 93535	Long Beach, CA 90807-0000
EDR Inquiry # 7563392.4	Contact: Eric Fraske

EDR Topographic Map Library has been searched by EDR and maps covering the target property location as provided by NV5 were identified for the years listed below. EDR's Historical Topo Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDRs Historical Topo Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the late 1800s.

Search Results:		*Coordinates:*	
P.O.#	UPRD-23-12039	**Latitude:**	34.67177 34° 40' 18" North
Project:	Lancaster Parcel 3378-003-00´	**Longitude:**	-117.965245 -117° 57' 55" West
		UTM Zone:	Zone 11 North
		UTM X Meters:	411568.04
		UTM Y Meters:	3837068.36
		Elevation:	2487.43' above sea level

Maps Provided:

2021	1945
2018	1933
2015	1930
2012	
1992	
1989	
1974	
1957	

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Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

2021 Source Sheets



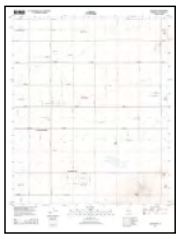
Alpine Butte
2021
7.5-minute, 24000

2018 Source Sheets



Alpine Butte
2018
7.5-minute, 24000

2015 Source Sheets



Alpine Butte
2015
7.5-minute, 24000

2012 Source Sheets



Alpine Butte
2012
7.5-minute, 24000

Topo Sheet Key

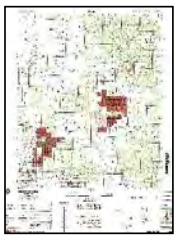
This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1992 Source Sheets



Alpine Butte
1992
7.5-minute, 24000
Aerial Photo Revised 1989

1989 Source Sheets



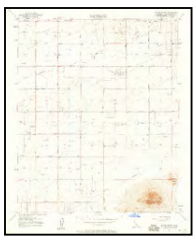
HI VISTA
1989
15-minute, 50000

1974 Source Sheets



Alpine Butte
1974
7.5-minute, 24000
Aerial Photo Revised 1974

1957 Source Sheets



Alpine Butte
1957
7.5-minute, 24000
Aerial Photo Revised 1955

Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1945 Source Sheets



Alpine Butte
1945
15-minute, 62500
Aerial Photo Revised 1943

1933 Source Sheets



West Alpine Butte
1933
7.5-minute, 24000

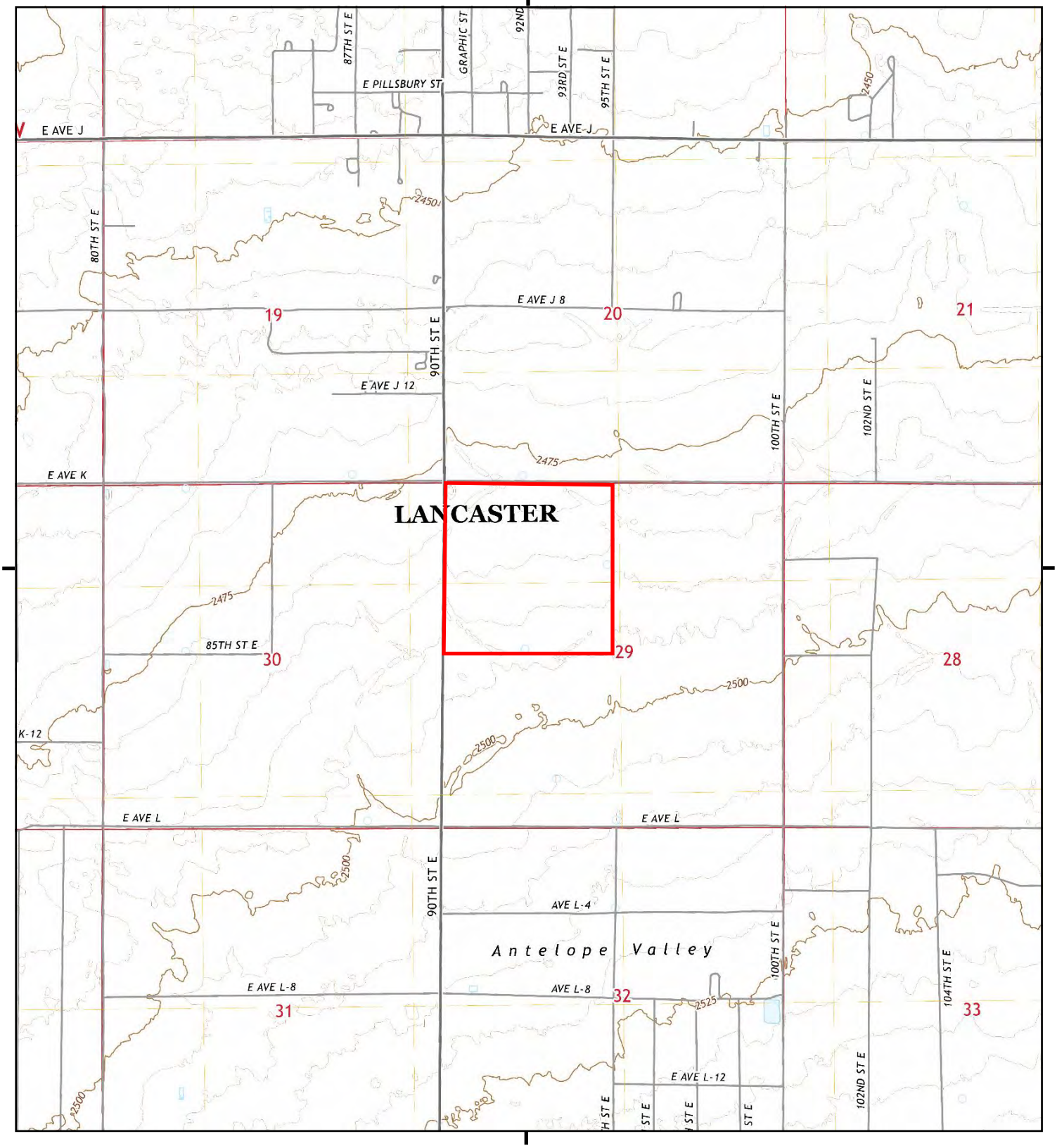
1930 Source Sheets



West Alpine Butte
1930
7.5-minute, 24000

Historical Topo Map

2021



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

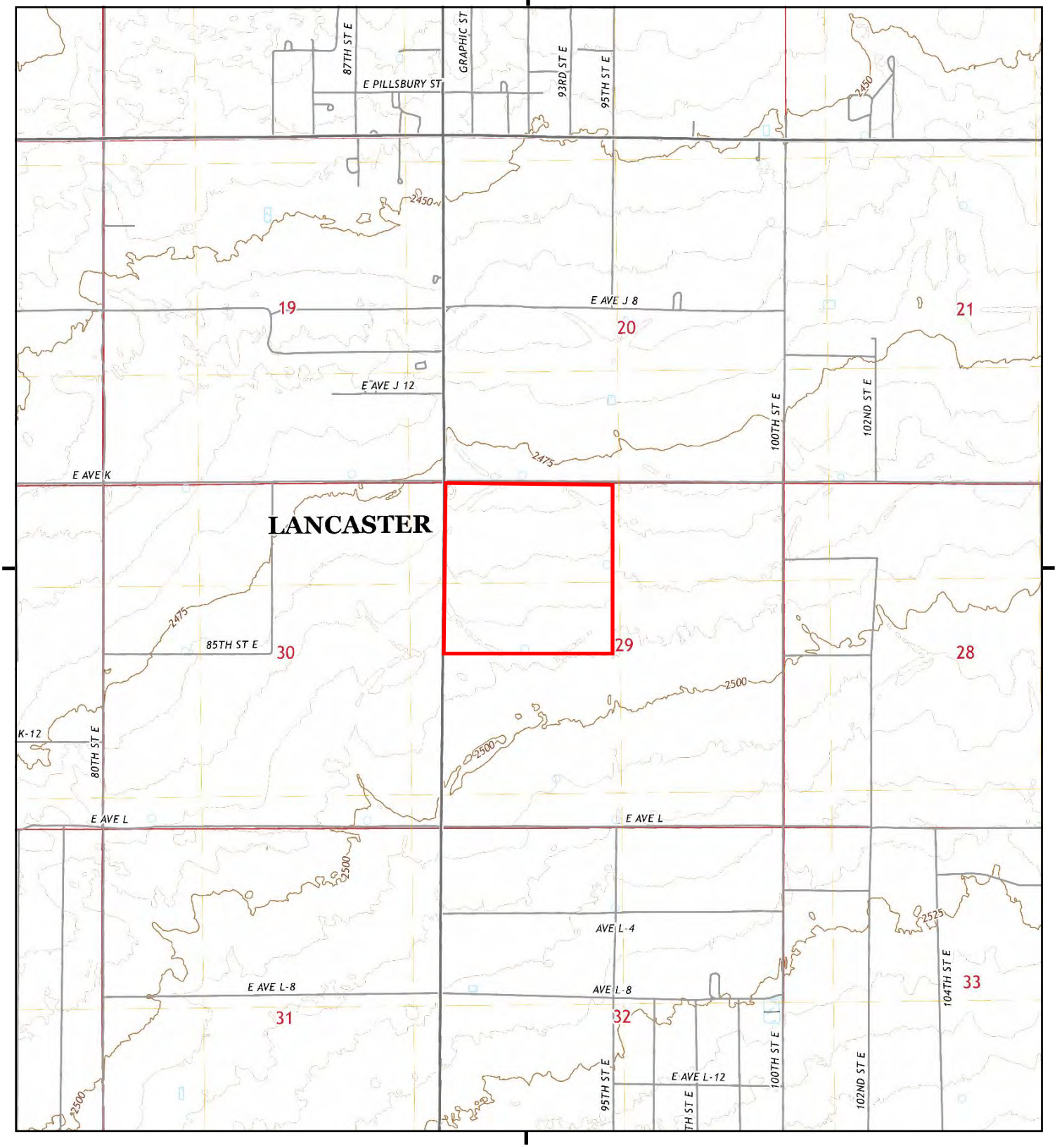
TP, Alpine Butte, 2021, 7.5-minute

SITE NAME: Lancaster Parcel 3378-003-001
ADDRESS: Not Reported
LANCASTER, CA 93535
CLIENT: NV5

N

Historical Topo Map

2018



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

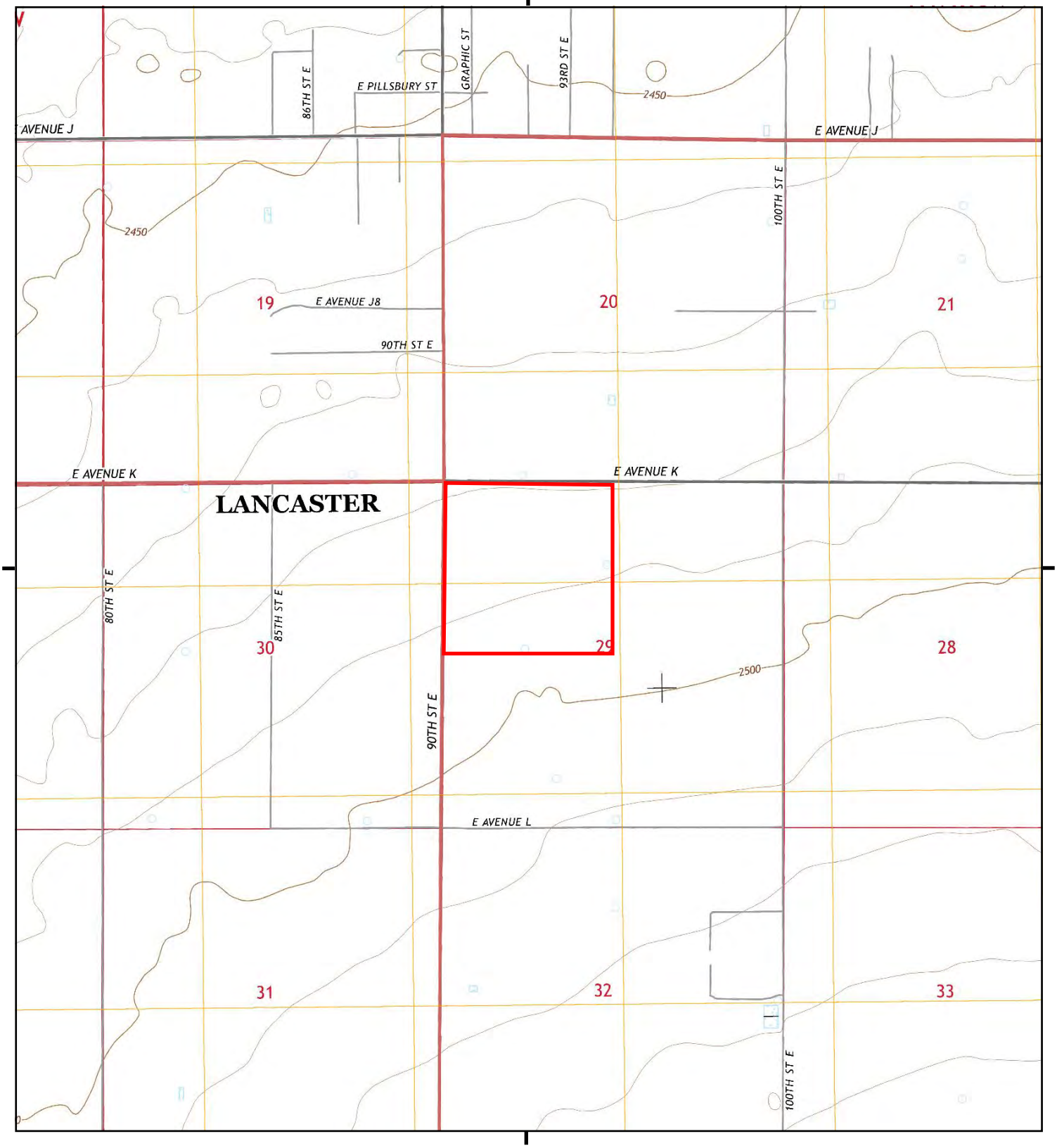
TP, Alpine Butte, 2018, 7.5-minute

SITE NAME: Lancaster Parcel 3378-003-001
ADDRESS: Not Reported
LANCASTER, CA 93535
CLIENT: NV5

N

Historical Topo Map

2015



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

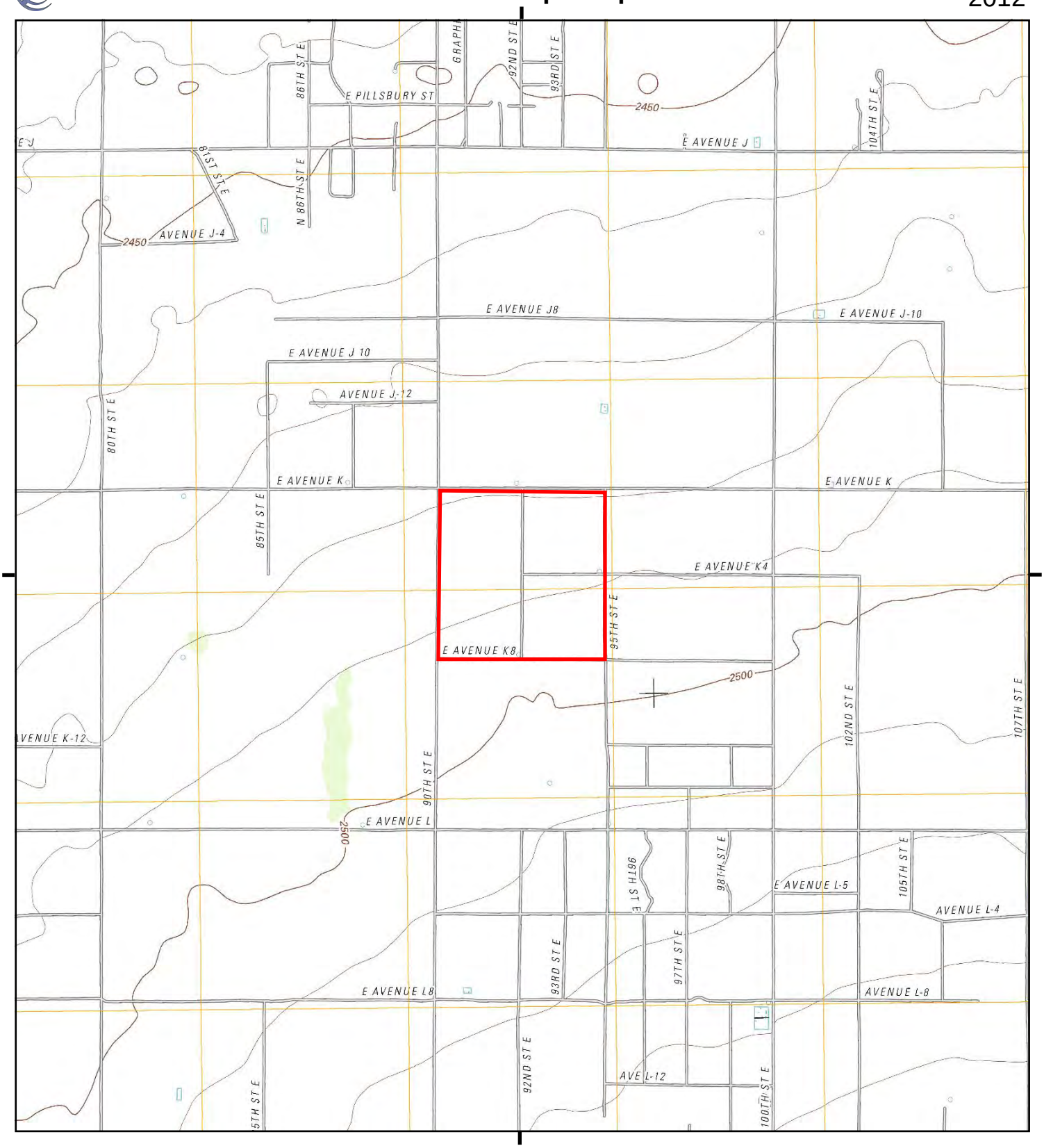
TP, Alpine Butte, 2015, 7.5-minute

SITE NAME: Lancaster Parcel 3378-003-001
ADDRESS: Not Reported
LANCASTER, CA 93535
CLIENT: NV5

N

Historical Topo Map

2012



This report includes information from the following map sheet(s).

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NW N NE
W E
SW S SE

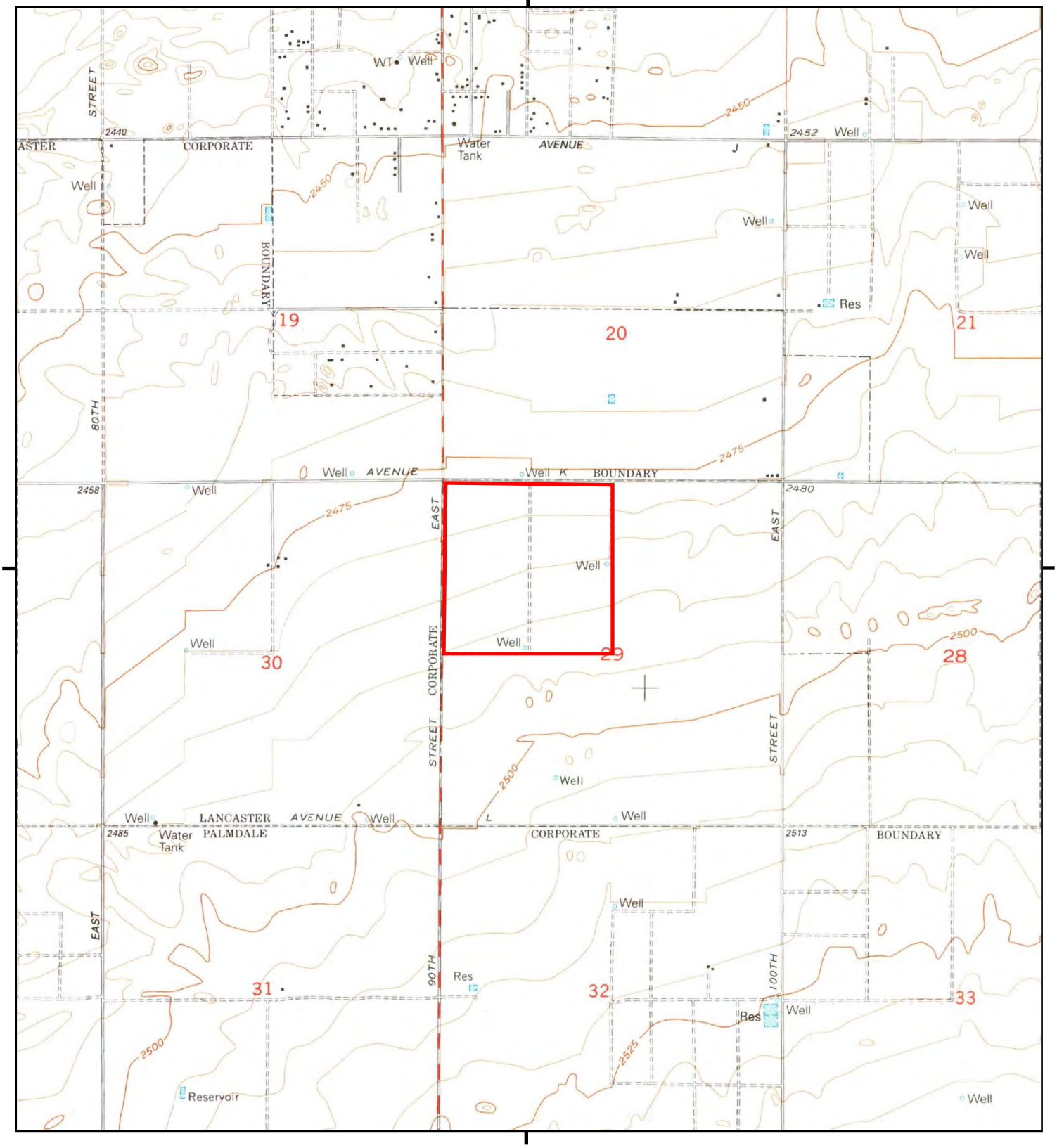
TP, Alpine Butte, 2012, 7.5-minute

SITE NAME: Lancaster Parcel 3378-003-001
ADDRESS: Not Reported
LANCASTER, CA 93535
CLIENT: NV5

N

Historical Topo Map

1992



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

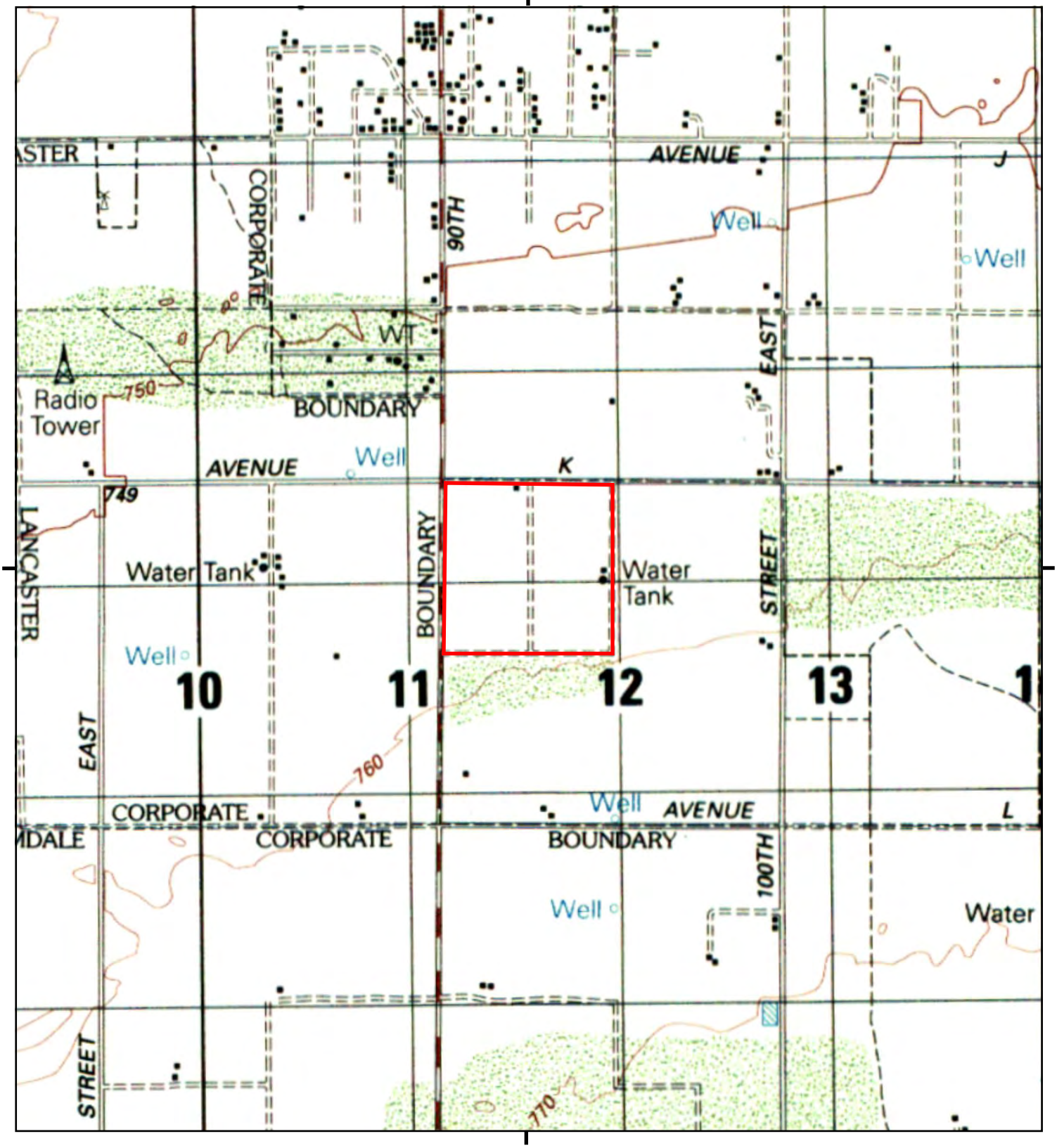
TP, Alpine Butte, 1992, 7.5-minute

SITE NAME: Lancaster Parcel 3378-003-001
ADDRESS: Not Reported
LANCASTER, CA 93535
CLIENT: NV5

N

Historical Topo Map

1989



This report includes information from the following map sheet(s).

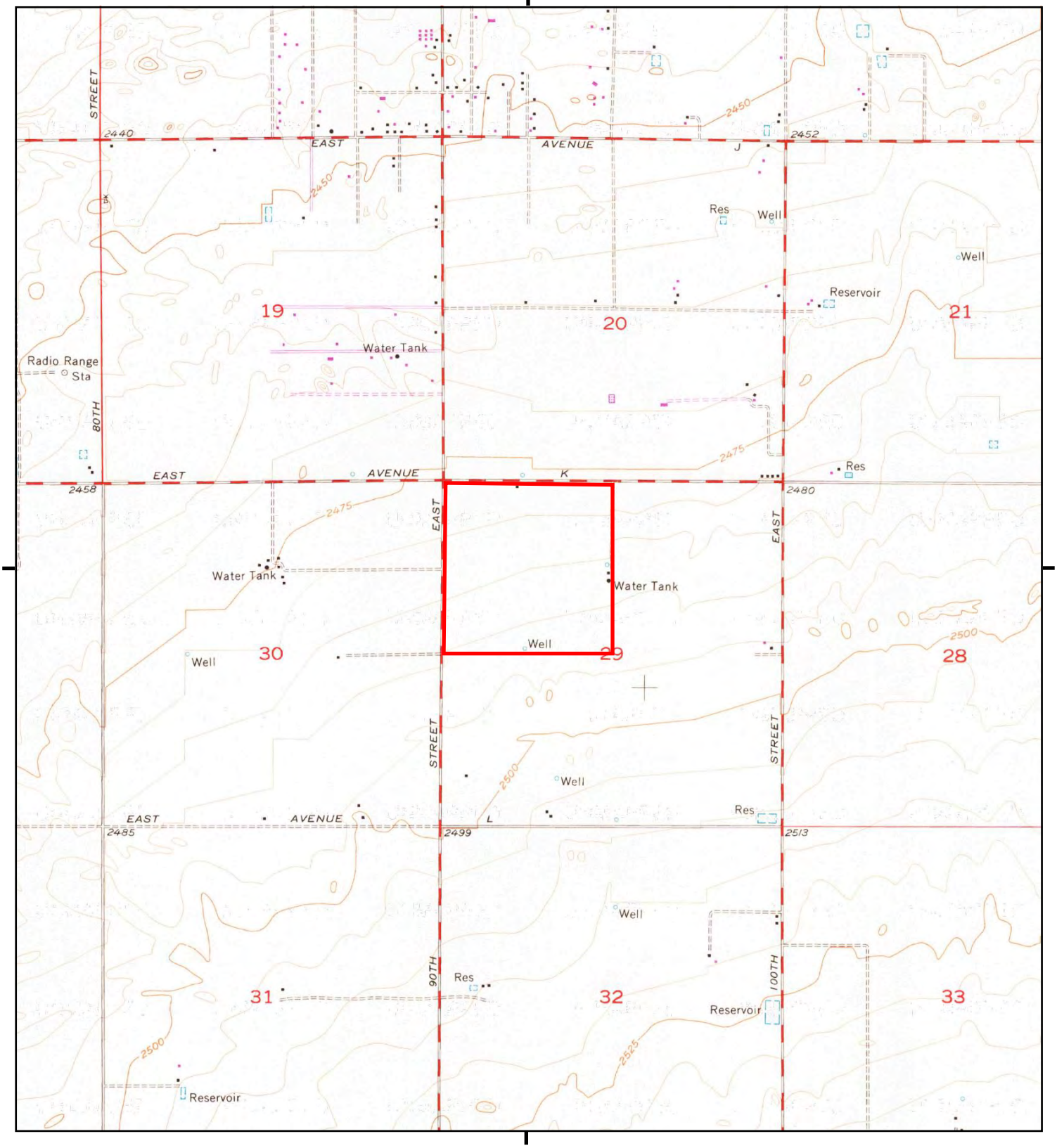
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, HI VISTA, 1989, 15-minute

SITE NAME: Lancaster Parcel 3378-003-001
ADDRESS: Not Reported
LANCASTER, CA 93535
CLIENT: NV5

N



This report includes information from the following map sheet(s).

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NW N NE
W E
SW S SE

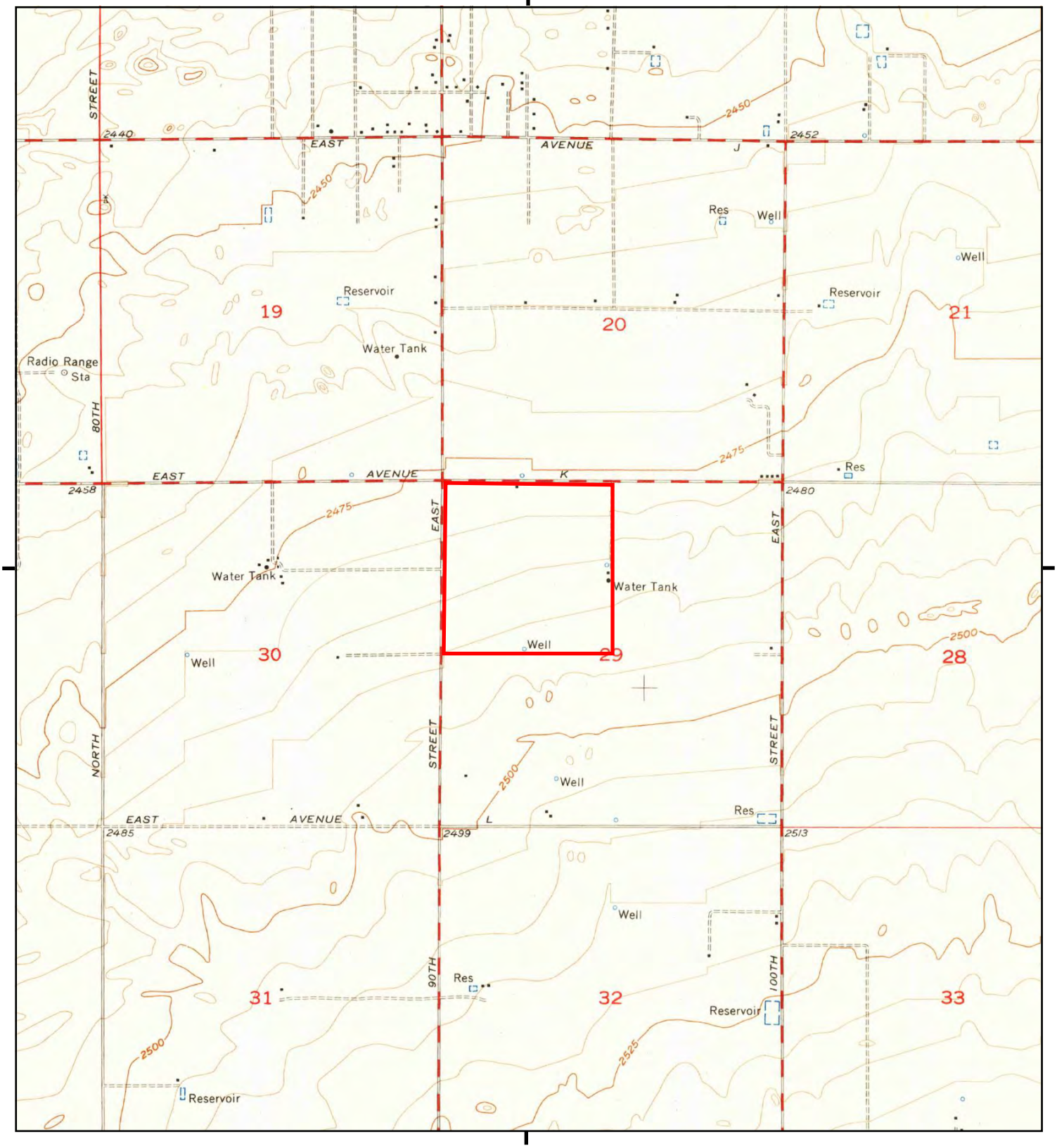
TP, Alpine Butte, 1974, 7.5-minute

SITE NAME: Lancaster Parcel 3378-003-001
ADDRESS: Not Reported
LANCASTER, CA 93535
CLIENT: NV5

N

Historical Topo Map

1957



This report includes information from the following map sheet(s).

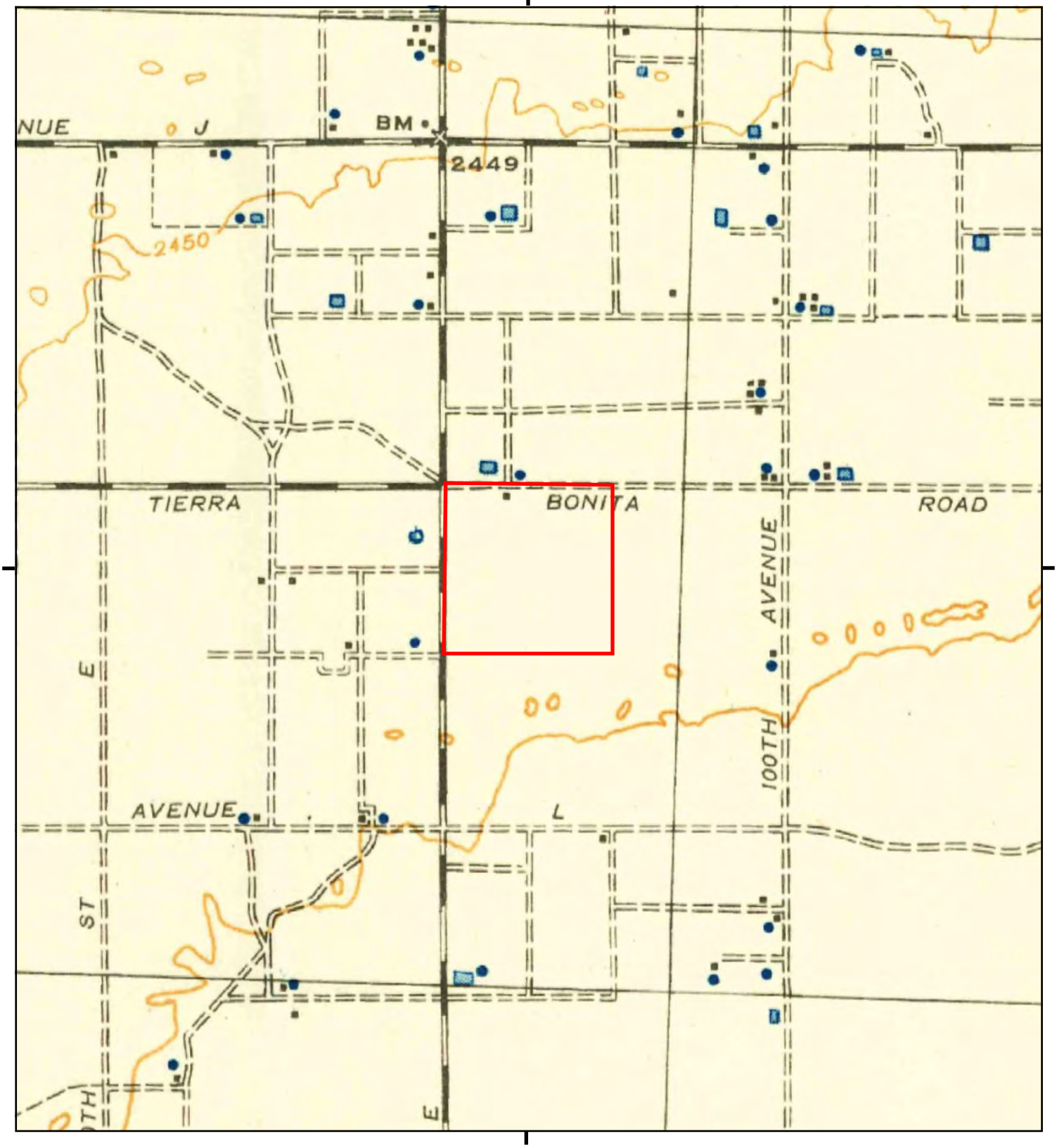
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Alpine Butte, 1957, 7.5-minute

SITE NAME: Lancaster Parcel 3378-003-001
ADDRESS: Not Reported
LANCASTER, CA 93535
CLIENT: NV5

N



This report includes information from the following map sheet(s).

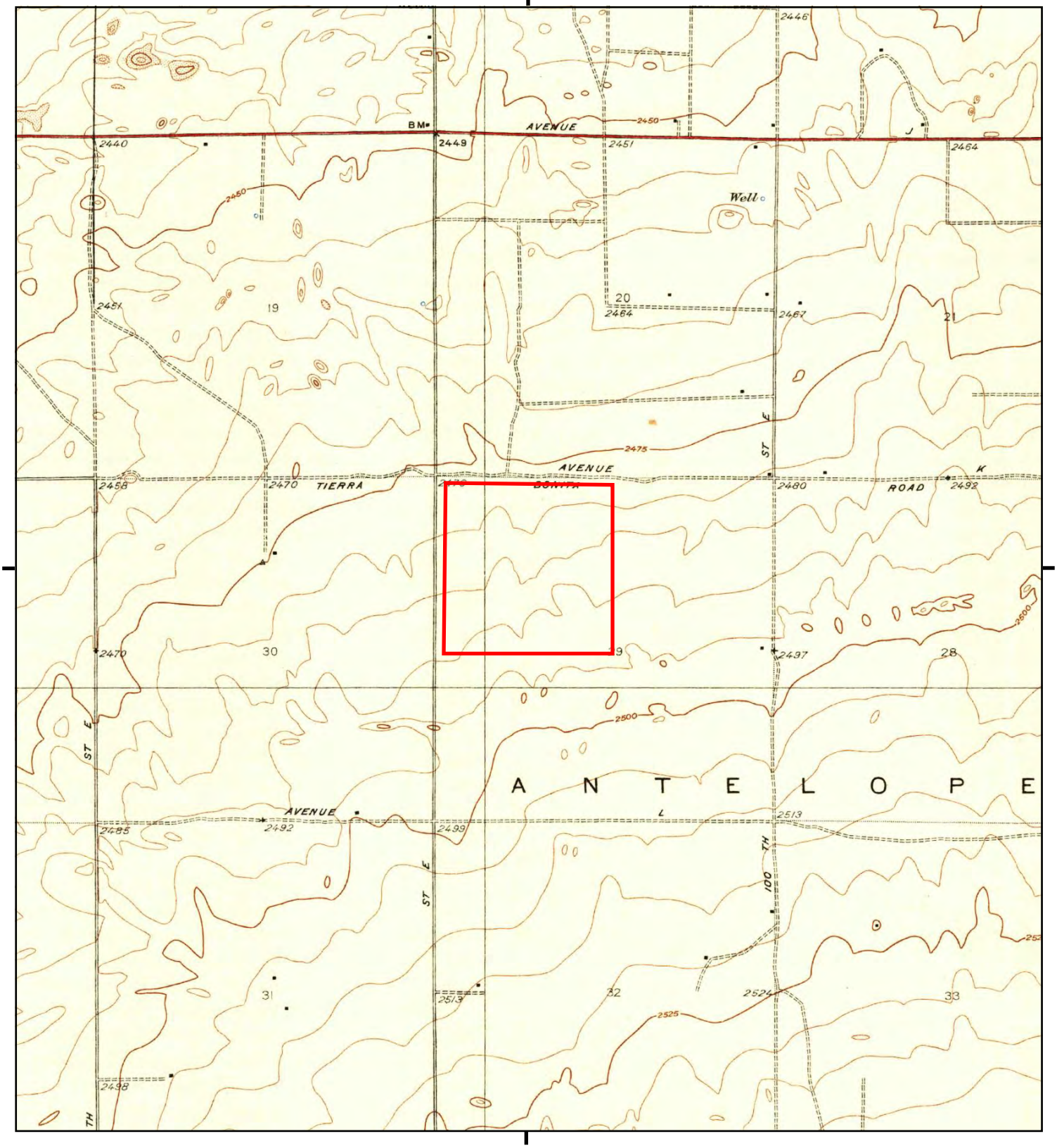
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Alpine Butte, 1945, 15-minute

SITE NAME: Lancaster Parcel 3378-003-001
ADDRESS: Not Reported
LANCASTER, CA 93535
CLIENT: NV5

N



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

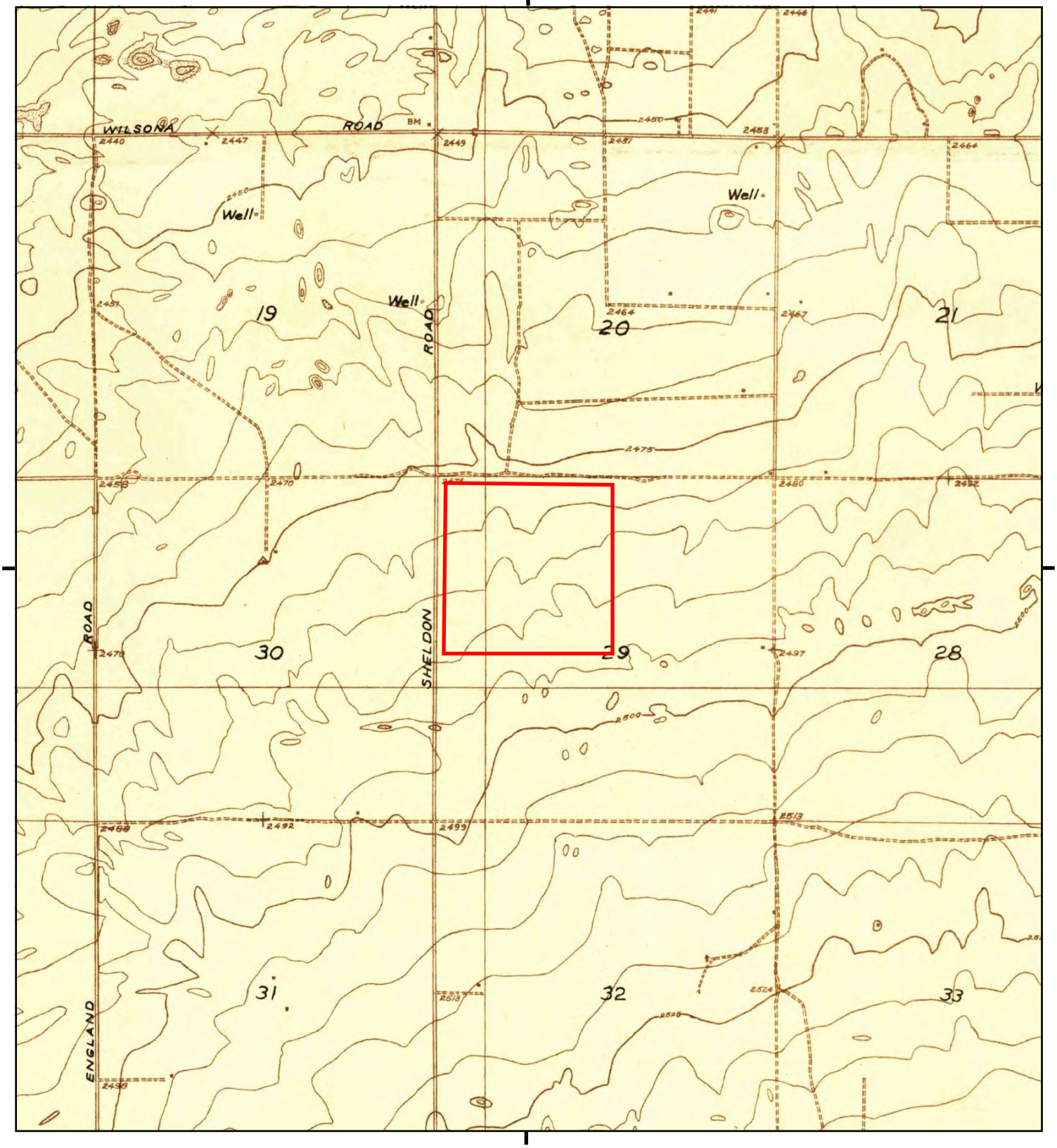
TP, West Alpine Butte, 1933, 7.5-minute

SITE NAME: Lancaster Parcel 3378-003-001
ADDRESS: Not Reported
LANCASTER, CA 93535
CLIENT: NV5

N

Historical Topo Map

1930



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, West Alpine Butte, 1930, 7.5-minute

SITE NAME: Lancaster Parcel 3378-003-001
ADDRESS: Not Reported
LANCASTER, CA 93535
CLIENT: NV5

N

Appendix F

Client/User Provided Documentation

Eric Fraske

From: Max Margolin <Max@Upstream.energy>
Sent: Monday, March 18, 2024 3:43 PM
To: Eric Fraske
Subject: FW: Lancaster Questions
Attachments: IMG_7301.JPG; IMG_7305.JPG; IMG_7306.JPG; IMG_7351.JPG; IMG_7281.JPG

Hi Eric –

I just spoke to Bolthouse and received the following information:

- 7281 – palm compost stacked up to create a windbreak
- 7301 – storage tanks for sulfuric acid used in irrigation for water treatment. Water is hard and contains bicarbonates which will affect crop growth.
- 7305 and 7306 – abandoned irrigation well bores.
- 7351 – yellow material is sulfur

- There are abandoned water wells that have been capped and one active water well.
- No areas of known contamination.
- No USTs
- No above-ground fuel tanks
- Yes, ag pesticides transported by trucks. Mixed on site right next to the irrigation mainlines.

Let me know if you have any further questions.

Thanks,
Max

Max Margolin
Director, Development | Upstream
7650 Girard Avenue, Suite 300
La Jolla, CA 92037
239.728.8476

From: Max Margolin <Max@Upstream.energy>
Date: Friday, February 23, 2024 at 9:11 AM
To: Dan Clifford <dclifford@bolthouseproperties.com>, Brad DeBranch <BDeBranch@bolthouseproperties.com>
Cc: Nancy Vogel <NVogel@bolthouseproperties.com>
Subject: FW: Lancaster Questions

Dan and Brad – happy Friday!

Would you be able to assist with getting these questions answered to the best of your/Bolthouse's ability?

Thank you,
Max

Max Margolin
Director, Development | Upstream
7650 Girard Avenue, Suite 300
La Jolla, CA 92037

239.728.8476

From: Eric Fraske <Eric.Fraske@nv5.com>
Date: Friday, February 23, 2024 at 8:55 AM
To: Max Margolin <Max@Upstream.energy>
Subject: Lancaster Questions

Hi Max,

Had a few questions regarding the Lancaster sites. Could you pass these along to the Site owner or provide me with their contact information.

- Photo 7281 – The stockpiled material seen in the photo, what is the source of that material and what is it used for?
- Photo 7301 – What is stored in the aboveground storage tanks? It's labeled Sulfuric Acid, what is that used for?
- Photo 7305 and 7306 – What was this structure?
- Photo 7351 – What is this material and what is it used for?

Also, regarding the Sites

- Are there any known areas of contamination, underground storage tanks, aboveground fuel tanks, or wells located at the Site?
- Are pesticides used at the Site? If so, how are they brought to the Site? Is any mixing conducted onsite? If so, where?

Thanks,

Eric Fraske | Senior Engineer III | **NV5** | Site Assessment and Remediation
3777 Long Beach Boulevard, Annex Building | Long Beach, CA 90807 | P: 562.495.5777 | C: 562.544.3910
eric.fraske@nv5.com | www.altaenviron.com | www.nv5.com | Electronic Communications Disclaimer

I am working remotely and can be reached via cell at 562.544.3910.

Alta Environmental is now NV5.

PHASE I ESA USER QUESTIONNAIRE

ASTM E-1527 provides Landowner Liability Protections to purchasers of commercial property if All Appropriate Inquiry (AAI) is completed during property acquisition. The answers to the questions below provide information to the Environmental Professional to assist the User of the referenced Phase I ESA to comply with the User Responsibilities of AAI.

Property Description			
Property Address:	N/A LA County APN 3378-003-001		
Current Occupant:	Bolthouse Farming		
Current Owner:	Bolthouse Land Company LLC	Phone:	661-323-4005
Site Contact:	Brad DeBranch	Phone:	
Potable Water Provider:	Unknown		
Electricity Provider:	Southern California Edison		
Natural Gas Provider:	Unknown - likely SoCalGas		
Sanitary Sewer Provider:	Unknown		
Solid Waste Disposal Provider:	Unknown		
Hazardous Waste Disposal:	Uknown		
Reason for Performing ESA	Due diligence in advance of long-term lease		

Are you aware of any environmental liens that have been filed or recorded under Federal State, local or tribal law? If yes provide details.
□ Yes ☑ No

Are you aware of any activity or land use limitations (AULs), engineering controls or land use limitations that have been filed or recorded under Federal, State, Local or Tribal Law? If yes, provide details.
□ Yes ☑ No

Do you have any specialized knowledge of the property or experience related to the Subject Property or nearby properties so that you would have knowledge of chemicals or processes used at the property? If yes, provide details.
□ Yes ☑ No

Is the acquisition price differing from the fair market value of the property?
□ Yes ☑ No
If there is a difference, have you considered a lower price is due to contamination known or believed to be present at the property? Please provide details.
□ Yes ☑ No

Phase I ESA User Questionnaire - Continued

As the user of this ESA, based on your knowledge and experience with the property, are there any obvious indications of the presence or likely presence of contamination at the property? If yes, provide details.
□ Yes ☑ No

Are you aware of any information that would help the environmental professional identify conditions indicative of releases or potential releases, including past uses of the property, uses of chemicals at the property, or environmental cleanups that have taken place at the property? If yes, provide details.
□ Yes ☑ No

Do you know of any pending, past or threatened litigation or administrative proceedings related to hazardous substances or petroleum products on, in or from the property or any notices regarding possible violations of environmental laws or possible liability related to hazardous substances or petroleum products? If yes, provide details.
□ Yes ☑ No

Are there any chemical storage areas or hazardous material storage areas located at the Subject Property?
If yes, provide details.
□ Yes ☑ No

Are there any current or historical Aboveground Storage Tanks or Underground Storage Tanks? If yes, provide details.
□ Yes □ No
Uknown

Are there any current or historical wastewater treatment systems, clarifier/interceptor systems, or grease trap systems associated with the Subject Property? If yes, provide details.
□ Yes □ No
Unknown

Phase I ESA User Questionnaire - Continued

Are you aware of the existence or location of the following documents related to the Subject Property, and if yes, can copies be made available for review by the Environmental Professional?

□ Previous Environmental Site Assessment reports or Investigation reports
□ Environmental Permits
□ Registrations for underground storage tanks (USTs)
□ Spill Prevention Containment and Contingency Plans (SPCC)
□ Stormwater Pollution Prevention Plans (SWPPP)
□ Risk Assessments
□ Hydrogeologic Reports related to the property or surrounding area
□ Notices of Violation from governmental agencies regarding past or current violations of environmental laws or related to environmental liens encumbering the property
□ Hazardous waste manifests or generation reports
□ Recorded land and activity use limitations
□ Geotechnical Studies

None

Max Margolin	Upstream Energy, Director of Development
(Name- Authorized User Representative)	(Company/Title)
Max Margolin	February 7, 2024
(Signature)	(Date)

Appendix G

References

REFERENCES

American Society for Testing and Materials, Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process, ASTM Designation: E 1527-21

American Society for Testing and Materials, Standard Guide for Vapor Encroachment Screening on Property Involved in Real Estate Transactions, ASTM Designation: E 2600-22

Environmental Data Resources, Inc., Milford, Connecticut, The EDR Aerial Photo Decade Package, Inquiry No. 7563392.12, February 2024.

Environmental Data Resources, Inc., Milford, Connecticut, Certified Sanborn Map Report, Inquiry No. 7563392.3, February 2024.

Environmental Data Resources, Inc., Milford, Connecticut, The EDR Historical Topographic Map Report, Inquiry No. 7563392.4, February 2024.

Environmental Data Resources, Inc., Milford, Connecticut, The EDR Radius Map Report with Geocheck , Inquiry No. 7563392.2s, February 2024.

Environmental Data Resources, Inc., Milford, Connecticut, The EDR City Directory Image Report, Inquiry No. 7563392.6, February 2024.

Environmental Data Resources, Inc., Milford, Connecticut, The EDR Environmental Lien and AUL Search 1980, Inquiry No. 7563392.9S, February 2024.

PHASE I ENVIRONMENTAL SITE ASSESSMENT REPORT

Agricultural Field
Lancaster Parcel 3378-004-008
Lancaster, California 93535

PREPARED FOR:

Upstream Renewable Dev I LLC
7650 Girard Ave Suite 300
La Jolla, California 92037

Project Number: UPRD-24-12039

Date: April 12, 2024

NV5
3777 Long Beach Boulevard Annex Building
Long Beach CA 90807 United States of America
T 562 495 5777 F 562 495 5877
Toll-free (US only) 800 777-0605 www.NV5.com

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F. Client/User Provided Documentation
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EXECUTIVE SUMMARY

NV5, Inc. (NV5) has completed a Phase I Environmental Site Assessment (ESA) of the agricultural field identified by Los Angeles County Assessor's Parcel Number (APN) 3378-004-008 located in the City of Lancaster, Los Angeles County, California (Site). The ESA was performed in conformance with the scope and limitations of ASTM Standard E1527-21. Any exceptions to, or deletions from, this practice are described in Section 1.0 of this report. The assessment was performed to identify conditions indicative of releases and threatened releases of hazardous substances and petroleum products on, at, in, or adjacent to the Site. If identified, these issues are considered recognized environmental conditions (RECs).

Site and Vicinity Description

The Site is located on the northeastern corner of the intersection of 90th Street East and East Avenue L in the City of Lancaster, Los Angeles County, California. The Site is approximately 79.09 acres in size and consists of a single parcel of land identified by Los Angeles County Tax Assessor Parcel Numbers (APN): 3378-004-008. This site is located in an area predominantly developed for agricultural use.

Site Use and History

The Site is currently cultivated for agricultural use. The Site appears to have been used in this manner since 1928 at the latest. No Aerial photos from an earlier date were available. Small farm structures were previously located on the southern portion of the Site but were removed between 1968 and 1970.

Data Gaps

The ASTM Standard defines a data gap as "a lack of or inability to obtain information required by the practice despite good faith efforts by the Environmental Professional to gather such information." A data gap is only significant if other information obtained during the ESA, or professional experience, raises reasonable concerns and affects the ability of the Environmental Professional to identify whether a given issue is a REC. The ASTM Standard requires that the ESA report identify and comment on significant data gaps. No data gaps were identified by NV5 during this assessment.

Conclusions

RECs

No evidence of a REC, Controlled REC (CREC) or Historic REC (HREC) in connection with the Site was identified during this assessment.

Vapor Encroachment Conditions (VEC)

A Tier 1 vapor encroachment screen (VES) for potential chemicals of concern (COC) was completed for the Site. The assessment was based on the ASTM published Standard Guide E 2600-22. The purpose of the VES was to evaluate the potential for a vapor encroachment condition (VEC) which is the presence or likely presence of COC vapors in subsurface soils at the Site caused by the release of vapors from contaminated soil or groundwater on or near the Site. No potential concerns were identified within the VES search radii.

Environmental Conditions of Note

The Site has been historically used for long-term agricultural use. Although no information or observations indicating the misuse or misapplication of pesticides, herbicides, or fertilizers was obtained during the Site reconnaissance, in certain instances, the chemicals historically applied to the Site, or their breakdown products, could be persistent and not biodegrade. As with any agriculturally developed land, there exists

the possibility that pesticides, herbicides, or fertilizers have been applied that may still be present at residual concentrations.

Recommendations

Based on the findings of this assessment, a limited Phase II ESA consisting of shallow soil sampling is recommended to assess if agricultural use (pesticide application and mixing) have negatively impacted the Site.

Additionally, if the Site is redeveloped and the use of the irrigation water well discontinued, the well should be property abandoned in accordance with all applicable regulatory requirements.

1 INTRODUCTION

NV5, Inc. (NV5) completed a Phase I Environmental Site Assessment (ESA) of the agricultural field identified by Los Angeles County Assessor's Parcel Number (APN) 3378-004-008 located in the City of Lancaster, Los Angeles County, California (Site). The purpose of this assessment was to evaluate the environmental condition of the Site and to satisfy one of the requirements for qualification under the innocent landowner, contiguous property owner, or bona fide prospective purchaser defenses under the federal Comprehensive Environmental Response, Compensation and Liability Act (CERCLA). ASTM Standard Practice E1527-21, and the United States Environmental Protection Agency (EPA) Standards and Practices for All Appropriate Inquiries (40 CFR Part 312) constitute the "all appropriate inquiry into the previous ownership and uses of the property consistent with good commercial or customary practice" as defined in:

1. 42 U.S.C § 9601(35)(B), referenced in the ASTM Standard Practice E1527-21;
2. Sections 101(35)(B) (ii) and (iii) of CERCLA and referenced in the EPA Standards and Practices for All Appropriate Inquiries (40 CFR Part 312); and
3. 42 U.S.C. 9601(40) and 42 U.S.C. 9607(q).

This report was prepared exclusively for use by Upstream Renewable Dev I LLC (Client). This report may not be relied upon by any other person or entity without NV5's express written permission. The information, conclusions and recommendations described in this report apply to conditions existing at certain locations at the time when services were performed and are intended only for the specific purposes, locations, time frames and project parameters indicated. NV5 cannot be responsible for the impact of any changes in environmental standards, practices, or regulations after performance of services.

1.1 Objectives

NV5's objective for this environmental assessment was to identify conditions indicative of releases and threatened releases of hazardous substances and petroleum products on, at, in, or to the Site. The assessment was conducted to meet the standards of ASTM Standard Practice E1527-21.

The conclusions and recommendations provided herein are based on the following:

1. Current and past Site uses and occupancies;
2. Current and past uses of hazardous substances;
3. Waste management and disposal activities that could have caused releases or threatened releases of hazardous substances;
4. Current and past corrective actions and response activities undertaken to address past and on-going releases of hazardous substances;
5. Engineering controls;
6. Institutional controls; and
7. Evaluation of properties adjoining or located nearby the Site that have environmental conditions that could have resulted in conditions indicative of releases or threatened releases of hazardous substances to the Site.

1.2 Services

NV5 performed the following services to assess the Site:

1. Reviewed historical sources of information;
2. Searched for recorded environmental clean-up liens;
3. Reviewed Federal, State, Tribal, and local government records;
4. Visually inspected the Site and the adjoining properties;

5. Evaluated any specialized knowledge or experience on the part of the purchaser; and
6. Determined commonly known or reasonably ascertainable information about the Site.

1.3 Assumptions

NV5 has assumed the following for the purposes of this assessment:

1. Information provided during any interview (written or oral) was accurate and correct;
2. Database information reviewed was accurate and correct;
3. Historical information reviewed was accurate and correct;
4. Information reviewed at any governmental agency was accurate and correct;
5. Groundwater flow and depth to groundwater, unless otherwise specified by on-site well data or well data from adjacent sites, are assumed based on contours depicted on the United States Geological Survey (USGS) Topographic Maps; and
6. The Site has been correctly and accurately identified by the Client, Client representatives, Site contact, Site owner, and/or Site representatives.

1.4 Limitations

This assessment is limited to the standards set forth in ASTM Standard Practice E1527-21. This report specifically excludes assessment of the following:

1. Asbestos and asbestos-containing building materials;
2. Biological agents;
3. Cultural and historic resources;
4. Ecological resources;
5. Endangered species;
6. Health and safety;
7. Indoor air quality unrelated to releases of hazardous substances or petroleum products into the environment;
8. Industrial hygiene;
9. Lead-Based Paint;
10. Lead in Drinking Water;
11. Mold;
12. Radon;
13. Regulatory compliance; and
14. Wetlands.

Please note that considerations identified by ASTM as beyond the scope of a Phase I ESA may still affect business environmental risk at a given property. These environmental issues or conditions may warrant assessment based on the type of property transaction; however, they are considered non-scope issues under ASTM Standard Practice E1527-21 and not included in this assessment.

The conclusions and findings set forth in this report are strictly limited in time and scope to the date of the evaluation. The conclusions presented in this report are based solely on the services described herein, and not on scientific tasks or procedures beyond the scope of agreed-upon services or the time and budgeting restraints imposed by the Client. No subsurface exploratory drilling or sampling of any kind was conducted under the scope of this work. Unless specifically stated otherwise in the report, no chemical or physical analyses have been performed during the performance of this Phase I ESA.

Some of the information provided in this report is based upon personal interviews, and research of available documents, records, and maps held by the appropriate government and private agencies. This information is subject to the limitations of historical documentation, availability, and accuracy of pertinent records and the personal recollections of those persons contacted. As applicable, NV5 has relied in good faith upon representations and information furnished by individuals with respect to operations and existing

property conditions, to the extent that they have not been contradicted by data obtained from other sources. Accordingly, NV5 accepts no responsibility for any deficiencies, omissions, misrepresentations, or fraudulent acts of persons interviewed.

Property conditions, as well as local, state, tribal, and federal regulations can change significantly over time. Therefore, the recommendations and conclusions presented in this study apply strictly to the environmental regulations and property conditions existing at the time the study was performed. Available information has been analyzed using currently accepted assessment techniques and it is believed that the inferences made are reasonably representative of the Site. NV5 makes no warranty, express or implied, except that the services have been performed in accordance with generally accepted environmental property assessment practices applicable at the time and location of the study.

This Phase I ESA is not, and should not be construed as, a warranty or guarantee about the presence or absence of hazardous substances or petroleum products that may affect the Site. The assessment is not intended to assure clear title to the Site in question. The sole purpose of investigation into Site title records is to ascertain a historical basis of prior land use and environmental liens. All findings, conclusions, and recommendations stated in this report are based upon facts, circumstances, and industry-accepted procedures for such services as they existed at the time this report was prepared (i.e., federal, state, and local laws, rules, regulations, market conditions, economic conditions, political climate, and other applicable matters). All findings, conclusions, and recommendations stated in this report are based on the data and information provided, and observations and conditions that existed on the date and time of the Site visit. Responses received from local, state, or federal agencies or other secondary sources of information after the issuance of this report may change certain facts, findings, conclusions, or circumstances to the report. A change in any fact, circumstance, or industry-accepted procedure upon which this report was based may adversely affect the findings, conclusions, and recommendations expressed in this report.

1.5 Terms

The following terms are used in this report:

- “Site” refers to the property within the approximate boundaries described in Section 2;
- “Adjoining property” refers to properties adjacent to the Site that share a common boundary with the Site; and
- “Site vicinity” refers to the area within an approximate 1-mile radius of the Site.
- “Recognized Environmental Conditions” (RECs) – The presence or likely presence of any *hazardous substances* or *petroleum products in, on, at or to the* Site: (*1*) due to release to the environment; (*2*) under conditions indicative of a *release* to the *environment*; or (*3*) under conditions that pose a *material threat* of a future *release* to the *environment*. *De minimis conditions* are not *recognized environmental conditions*.
- “Controlled Recognized Environmental Condition” (CREC) – A recognized environmental condition resulting from a past *release* of *hazardous substances* or *petroleum products* that has been addressed to the satisfaction of the applicable regulatory authority (for example, as evidenced by the issuance of a no further action letter or equivalent, or meeting risk-based criteria established by regulatory authority), with *hazardous substances* or *petroleum products* allowed to remain in place subject to the implementation of required controls (for example, *property use restrictions*, *activity and use limitations*, *institutional controls*, or *engineering controls*). A condition identified as a *controlled recognized environmental condition* does not imply that the *Environmental Professional* has evaluated or confirmed the adequacy, implementation, or continued effectiveness of the required control that has been, or is intended to be, implemented.
- “Historical Recognized Environmental Condition” (HREC) – A past *release* of any *hazardous substances* or *petroleum products* that has occurred in connection with the Site and has been addressed to the satisfaction of the applicable regulatory authority or meeting unrestricted use

criteria established by a regulatory authority, without subjecting the Site to any required controls (for example, Site use restrictions, *activity and use limitations*, *institutional controls*, or *engineering controls*).

- "Migrate/migration" – For the purposes of this practice, "migrate" and "migration" refer to the movement of *hazardous substances* or *petroleum products* in any form, including, for example, solid and liquid at the surface or subsurface, and vapor in the subsurface.
- "Hazardous Substances" – The term "hazardous substance" is used here in general accordance with its use as defined in the following regulations:

  -- Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) of 1980, as amended; and

  -- Superfund Amendment and Reauthorization Act (SARA) of 1986, as amended.

- The words "impact" or "impacted" are used to mean the effect or result of a release of a hazardous substance or petroleum product at the Site. Search distances for government agency lists were those designated by the ASTM Standard E 1527-13 and ASTM E 1527-21.

1.6 Environmental Professional

This document has been prepared by an Environmental Professional as defined by the EPA, 40 CFR Part 312.10. All work performed for this assessment was performed by or under the direct supervision of an Environmental Professional.

2 SITE DESCRIPTION

Mr. Noah Stevens, of NV5, conducted a Site reconnaissance on February 19, 2024. The descriptions provided herein are based on information provided by the current Site representatives and on observations made during that visit. Site Vicinity and Site Layout maps depicting the areas and features described in the following sections are provided in Figures 1 and 2. Representative Site photographs are included in Appendix A.

2.1 Site Location and Use

2.1.1 Location and Description

The Site is located on the northeastern corner of the intersection of 90th Street East and East Avenue L in the City of Lancaster, Los Angeles County, California. The Site is approximately 79.09 acres in size and consists of a single parcel of land identified by Los Angeles County Tax Assessor Parcel Numbers (APN): 3378-004-008.

2.1.2 Development and Current Use

The Site is currently cultivated for agricultural use.

2.2 Utility Service Providers

The only active utility service at the Site is electricity provided by Southern California Edison. Water for irrigation is provided by an onsite well. Natural gas and sewer service was not reported or observed to be provided to the Site.

2.2.1 Irrigation Water Wells

Irrigation water is supplied to the site via a network of irrigation piping connected to one onsite well and multiple offsite water wells. A map of the existing irrigation well and irrigation piping is provided as Figure 3.

2.3 Chemical and Petroleum Storage Areas

No evidence of petroleum storge areas at the Site was observed or reported during the Site reconnaissance. Chemical usage at the Site is limited to sulfuric acid (used to adjust irrigation water for water hardness) and agricultural pesticides that are brought in by truck and mixed on-site adjacent to irrigation mainlines. Sulfur piles were found to be present on the eastern portion of the Site during the Site reconnaissance. The sulfur is reportedly used a soil amendment.

2.4 Storage Tanks

2.4.1 Aboveground Storage Tanks (ASTs)

Polyethylene ASTs used for the storage of sulfuric acid, used in irrigation, are present on the northwestern portion of the Site, adjacent to irrigation mainlines and electrical transformer. No evidence of releases or leaks from the ASTs were observed or reported during the Site reconnaissance. Their presence is not considered to represent and REC.

2.4.2 Underground Storage Tanks (USTs)

No evidence of USTs at the Site was observed or reported during the Site reconnaissance.

2.4.3 Septic Tanks

No septic tanks were observed or reported to be present at the Site during the Site reconnaissance.

2.5 Polychlorinated Biphenyls (PCBs)

Pad-mounted transformers were on the Site and adjoining properties adjacent to irrigation equipment on the northwestern Site boundary. No evidence of leaks or releases from the transformers were observed. The presence of the transformers is not considered to represent a REC.

2.6 Floor Drains, Sumps, and Clarifiers

No evidence of floor drains, sumps, or clarifiers at the Site was observed or reported to be present at the Site.

2.7 Back-up Power Generation

No back-up power generation systems were observed or reported to be present at the Site.

2.8 Cooling Towers

No cooling towers were observed on the Site.

2.9 Elevators, Lifts and Compactors

No elevators, lifts, compactors were observed or reported to be present at the Site.

2.10 Odors

No strong, pungent, or noxious odors indicative of a past release of hazardous substances or petroleum products were identified during the course of this assessment.

2.11 Pools of Liquid

No standing surface water or other pits, ponds, or lagoons potentially containing hazardous substances or petroleum products were identified within the Site.

2.12 Surface Staining

No surface staining indicative of a past release of hazardous substances or petroleum products were identified during the course of this assessment.

2.13 Stressed Vegetation

No significantly stressed vegetation or other indications of potential release of hazardous substances or petroleum products were observed during the Site reconnaissance.

2.14 Solid Waste

No evidence of solid waste dumping or releases was observed during the Site reconnaissance.

2.15 Adjacent Properties

The Site is located in an area primarily developed for agricultural use. The following table summarizes land use observed in the near vicinity of the Site:

Direction	Property Tenant Name	Address	Business Operation
North	Vacant Land	No Address Assigned	Undeveloped Land
East	Vacant Land	No Address Assigned	Undeveloped Land
West	Farmland	No Address Assigned	Cultivated Farmland
South	Vacant Land and Vehicle Storage Yard	No Address Assigned	Undeveloped Land

3 SITE SETTING

3.1 Topography

The 2021 United States Geological Survey (USGS), “Alpine Butte, CA” 7.5 Minute Topographic Quadrangle map of the Site and surrounding vicinity was reviewed. The elevation of the Site is approximately 2,505 feet above mean sea level (msl). The Site and surrounding topography slope towards the northwest. A copy of the USGS 7.5 Minute Topographic Map is included in Appendix B.

3.2 Regional Geology and Hydrology

The following description of regional geology and hydrology was developed based on regional information presented in the site-specific Environmental Data Resources (EDR) Radius Map Report (“EDR Report”) (2024).

According to United States Department of Agriculture (USDA) soil data published in the EDR Report, soils underlying the Site are classified as *Hesperia* loamy fine sand. Soils of this type have moderate infiltration rates and consist of deep and moderately deep, moderately well and well-drained soils with moderately coarse textures.

According to groundwater information published on the State Water Resources Control Board *Geotracker* website for a facility located at 8841 E Avenue J (located approximately two miles northwest of the Site),

the shallowest groundwater in the vicinity of the Site is expected to be present at a depths of greater than 100 feet below ground surface and is assumed to flow following local topography towards the northwest.

3.3 Flood Plain

According to Federal Emergency Management Agency flood plain data presented in the EDR Report, the Site is not located within the boundaries of a 100-year or 500-year flood zone (EDR, 2024). The EDR Report is presented as Appendix B.

3.4 Wetlands

According to map data published on the United States Department of Fish and Wildlife (USFW) National Wetlands Inventory, no wetlands are mapped on the Site. A screenshot is provided in Appendix C.

3.5 Water Bodies

No water bodies were observed on or adjacent to the Site during the Site reconnaissance.

3.6 Oil and Gas Wells

According to the State of California Geologic Energy Management Division (CalGem) online Well Finder application, no oil/gas are located on or adjacent to the Site. A screenshot is provided in Appendix C.

4 CLIENT/USER-PROVIDED INFORMATION

NV5 considers the Client to be the 'User' of our assessment, defined in ASTM Practice E1527-21 as "the party seeking to use Practice E1527 to complete an environmental site assessment of the subject property". A User may include, without limitation, a potential purchaser of property, a potential tenant of property, an owner of property, a lender, or a property manager. The User has specific obligations for completing a successful application of this practice.

The EPA All Appropriate Inquiry Rule (40 CFR Part 312) and ASTM E1527-21 § 6 require the User to answer certain questions related to the Site in order to obtain certain LLPs from CERCLA liability. To facilitate this process, NV5 provided the client with a User Questionnaire, which is presented in Appendix F. A summary of the required questions and client responses is provided below.

4.1 Title Records

Title records were not provided to NV5 by the Client/User for review. However, the EDR Lien and AUL Search report included a search and review of records for property transfers since January 1, 1980. According to this report, the current owner of the Site is Bolthouse Land Company, LLC.

The EDR Lien and AUL report is presented in Appendix D.

4.2 Clean-Up Liens

No knowledge of any clean-up liens against the Site was reported by the Client/User. Furthermore, the EDR Environmental Lien and AUL Search report did not identify any environmental liens for the Site (Appendix D).

4.3 Activities and Use Limitations

No knowledge of any activities and use limitations against the Site were reported by the Client/User. Furthermore, the EDR Environmental Lien and AUL Search report did not identify any activities and use limitations for the Site (Appendix D).

4.4 Specialized Knowledge

No specialized knowledge identifying evidence of a REC was disclosed by the Client/User during this assessment.

4.5 Commonly Known Information

No commonly known information identifying evidence of a REC was disclosed by the Client/User during this assessment.

5 RECORDS REVIEW

5.1 Governmental Databases

NV5 contracted EDR to perform a radius search of governmental databases for this project. The distribution of listed sites with respect to the Site is tabulated and mapped in the EDR Report, which can be found in Appendix B. The reader is referred to the table, which can be found near the front of the EDR Report.

NV5 conducted a review of the above-referenced database reports and provides the following findings based on sites that have the potential to impact the Site, with respect to the inferred northwesterly groundwater flow direction. Our findings are based on the assumption that a hazardous material released to the subsurface generally does not migrate laterally within unsaturated soil for a significant distance. Although a hazardous substance or petroleum product can migrate in groundwater in a generally down-gradient direction, there are limitations to this interpretation such as groundwater depth, soil lithology and other subsurface barriers.

5.1.1 Site Database Findings

The Site address was not identified in the EDR Report.

5.1.2 Adjoining Property Database Findings

None of the adjoining property addresses were identified in EDR's report.

5.1.3 General Vicinity Database Findings

EDR's report identified no off-Site facilities within applicable ASTM search radii.

5.2 Regional Agency Offices

NV5 submitted information requests to the various county and regional agencies that may have records with regard to environmentally oriented concerns affecting the Site, in accordance with ASTM E1527-21 requirements. Should significant records be identified at a later date, an addendum to this report will be issued. Documentation obtained from regulatory agency requests is presented in Appendix C.

Agency	Records Summary
Los Angeles County Fire Department	No records for the Site were identified by this agency, as no address has been assigned to the Site.
Los Angeles County Public Works	No records for the Site were identified by this agency, as no address has been assigned to the Site.
City of Lancaster	No building permit records for the Site's APN were identified during a search of the City of Lancaster online permit record system.

5.3 Historical Records

NV5 used USGS topographic (Topo) maps, aerial photographs, fire insurance maps, and historical street directories to provide information about the history of the Site and its surroundings. The resources NV5 reviewed are tabulated as follows and presented in Appendix E.

Historical Resources		
Source Type	**Years Reviewed**	**Source**
USGS Topo Maps	1930, 1933, 1945, 1957, 1974, 1989, 1992, 2012, 2015, 2018, and 2021	USGS/EDR
Aerial Photograph(s)	1928, 1940, 1948, 1953, 1968, 1970, 1977, 1981, 1983, 1994, 2003, 2005, 2009, 2012, 2016, and 2020	EDR
Fire Insurance (Sanborn) Maps	No Coverage Letter	EDR
Street Directories	1971, 1976, 1982, 1987, 1992, 1995, 2000, 2005, 2010, 2014, 2017, and 2020	EDR

5.4 Past Uses – Site

Our interpretation of past uses of the Site, based on the historical data sources listed previously, are tabulated below.

Date	Interpreted Property Use
1928 to 1968	Aerial photographs depict the Site to be cultivated for agricultural use. Some small structures, that appear to be associated with Site agricultural activities, are present on the southern portion of the Site.
1970 to 2020	Aerial photographs depict the Site to be cultivated for agricultural use; however, the Site structures previously located on the southern portion of the Site have been removed.

5.5 Past Uses – Adjoining Properties

Our interpretation of past uses of the adjoining properties, based on the historical data sources listed previously, are tabulated as follows.

Date	Description
Northern Adjoining Property – Across Avenue K-10	
1928 to 1994	Aerial photographs and Topo maps depict the property to be undeveloped land.
2003 to 2005	Aerial photographs depict the property to be mostly undeveloped land. However, the southwest portion of the property is cultivated for agricultural use.

Date	Description
2009 to 2020	Aerial photographs depict the property to be undeveloped land. The previously cultivated land appears to have been left fallow.
Eastern Adjoining Property – Across 95th Street East	
1928 to 1948	Aerial photographs and Topo maps depict the property to be undeveloped land.
1953 to 2009	Aerial photographs depict the property to be cultivated for agricultural use.
2012 to 2020	Aerial photographs and Topo maps depict the property to be undeveloped land. The previously cultivated land appears to have been left fallow.
Western Adjoining Property – Across 90th Street East	
1928 to 2020	Aerial photographs depict the property to be cultivated for agricultural use.
Southern Adjoining Property – Across East Avenue L	
1928 to 1940	Aerial photographs and Topo maps depict the property to be undeveloped land.
1948 to 1983	Aerial photographs depict the property to be cultivated for agricultural use.
1994 to 2020	Aerial photographs depict the property to be undeveloped land. The previously cultivated land appears to have been left fallow.

5.6 Interviews

NV5 interviewed parties potentially having information about current and/or former conditions at the Site. The parties and their affiliation are listed in the following table.

Interviews		
Name	**Affiliation**	**Role**
Mr. Max Margolin	Upstream Energy, Director of Development	Client/User

- Mr. Margolin arranged for Site access, provided basic site information, and completed the User Questionnaire.

6 NON-SCOPE CONSIDERATIONS

Per the authorized scope of work, items beyond the scope of ASTM E 1527-21 were not addressed as part of this assessment.

7 VAPOR ENCROACHMENT SCREENING

ASTM E1527 requires the Environmental Professional to evaluate the potential for vapor encroachment of chemicals of concern (COC) onto the Site, and to determine if such vapor encroachment constitutes evidence of a REC on the Site. The E1527 Standard Practice does not specifically state the methods that

must be used to screen for potential vapor encroachment issues. However, ASTM has developed a separate Standard Guide for Vapor Encroachment Screening on Property Involved in Real Estate Transactions (ASTM E2600-22), which outlines an ASTM E1527 compliant methodology to conduct vapor encroachment screening that was used for this assessment as described below.

7.1 VES Methodology

The goal of conducting Vapor Encroachment Screening (VES) is to identify a vapor encroachment condition (VEC), which is defined as the presence or likely presence of chemicals of concern (COC) vapors in the vadose zone of the Site caused by the release of vapors from contaminated soil and/or groundwater either on or near the Site. If a VEC is identified, the Environmental Professional must determine whether the VEC represents evidence of a REC on the Site under the context of the Phase I ESA Standard Practice. It should be noted that the identification of a VEC on the Site does not necessarily indicate that a potential for migration of vapors into existing or proposed structures on the Site is likely. The Environmental Professional will identify the VEC as a REC where the potential for vapor migration into structures is considered likely, or where the contaminant concentrations in the soil, groundwater, or soil vapors on the Site are significant and likely to result in enforcement against on-site or off-site responsible parties.

The VES utilizes information regarding the potential presence of releases on or near the Site that were collected as a normal part of the Phase I ESA process, such as governmental database records, review of governmental files, historical data sources, etc. The VES Standard Guide requires the Environmental Professional to search for potential sites of concern within specific search radii. The area of concern search radius is 1,760 feet (1/3 mile) for non-petroleum-impacted sites and 528 feet (1/10 miles) for petroleum-impacted sites. The default search distances may be expanded or reduced in the upgradient, downgradient, or cross-gradient directions by the Environmental Professional based on experience in the local area and applying professional judgment to factors such as where a well-defined regional groundwater flow direction is identified, or whether other geologic features such as low permeability soils or hydrogeologic boundaries such as rivers or streams exist which would tend to limit the potential for migration of groundwater or vapors in a particular direction.

7.2 VES Search Results

No potential concerns were identified within the VES search radii.

8 FINDINGS

Based on the Site reconnaissance, review of historical and available documents, and interviews, NV5 finds the following:

8.1 Current Site Activities

The Site is currently cultivated farmland.

8.2 Historical Site Activities

The Site is currently cultivated for agricultural use. It is undetermined when the Site was first cultivated, as the historical aerials show the property being cultivated for agricultural use in 1928. No earlier historical aerials were available. Small farm structures were previously located on the Southern portion of the Site but were removed between 1968 and 1970.

8.3 Off-Site Activities

The Site is located within an area developed for agricultural use. Current uses of adjoining properties include a combination of cultivated farmland and undeveloped vacant land. A vehicle storage yard is present on the western portion of the southern adjoining property.

8.4 Data-Gaps

The ASTM Standard defines a data gap as "a lack of or inability to obtain information required by the practice despite good faith efforts by the Environmental Professional to gather such information." A data gap is only significant if other information obtained during the ESA, or professional experience, raises reasonable concerns and affects the ability of the Environmental Professional to identify whether a given issue is a REC. The ASTM Standard requires that the ESA report identify and comment on significant data gaps. No data gaps were identified by NV5 during this assessment.

9 CONCLUSIONS AND RECOMMENDATIONS

NV5 completed a Phase I ESA of the agricultural field identified by Los Angeles County Assessor's Parcel Number (APN) 3378-004-008 located in the City of Lancaster, Los Angeles County, California (Site). The ESA was performed in conformance with the scope and limitations of the ASTM E1527-21 standard. Any exceptions to, or deletions from, this practice are described in Section 1.0 of this report. The assessment was performed to identify conditions indicative of releases and threatened releases of hazardous substances and petroleum products on, at, in, or to the Site.

RECs

No evidence of a REC, Controlled REC (CREC) or Historic REC (HREC) in connection with the Site was identified during this assessment.

Vapor Encroachment Conditions (VEC)

A Tier 1 vapor encroachment screen (VES) for potential chemicals of concern (COC) was completed for the Site. The assessment was based on the ASTM published Standard Guide E 2600-22. The purpose of the VES was to evaluate the potential for a vapor encroachment condition (VEC) which is the presence or likely presence of COC vapors in subsurface soils at the Site caused by the release of vapors from contaminated soil or groundwater on or near the Site. No potential concerns were identified within the VES search radii.

Environmental Conditions of Note

The Site has been historically used for long-term agricultural use. Although no information or observations indicating the misuse or misapplication of pesticides, herbicides, or fertilizers was obtained during the Site reconnaissance, in certain instances, the chemicals historically applied to the Site, or their breakdown products, could be persistent and not biodegrade. As with any agriculturally developed land, there exists the possibility that pesticides, herbicides, or fertilizers have been applied that may still be present at residual concentrations.

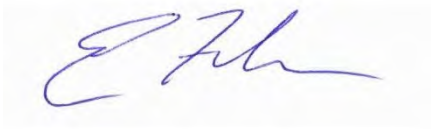
Recommendations

Based on the findings of this assessment, a limited Phase II ESA consisting of shallow soil sampling is recommended to assess if agricultural use (pesticide application and mixing) have negatively impacted the Site.

Additionally, if the Site is redeveloped and the use of the irrigation water well discontinued, the onsite well should be property abandoned in accordance with all applicable

10 QUALIFICATIONS AND SIGNATURE

I declare that, to the best of my professional knowledge and belief, I meet the definition of Environmental Professional as defined in 40 CFR 312.10. I have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the Site. I have developed and performed the All-Appropriate Inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.



ERIC FRASKE, PE
SENIOR PROJECT MANAGER

Resume and other supporting documentation are maintained on file at NV5.

Figures

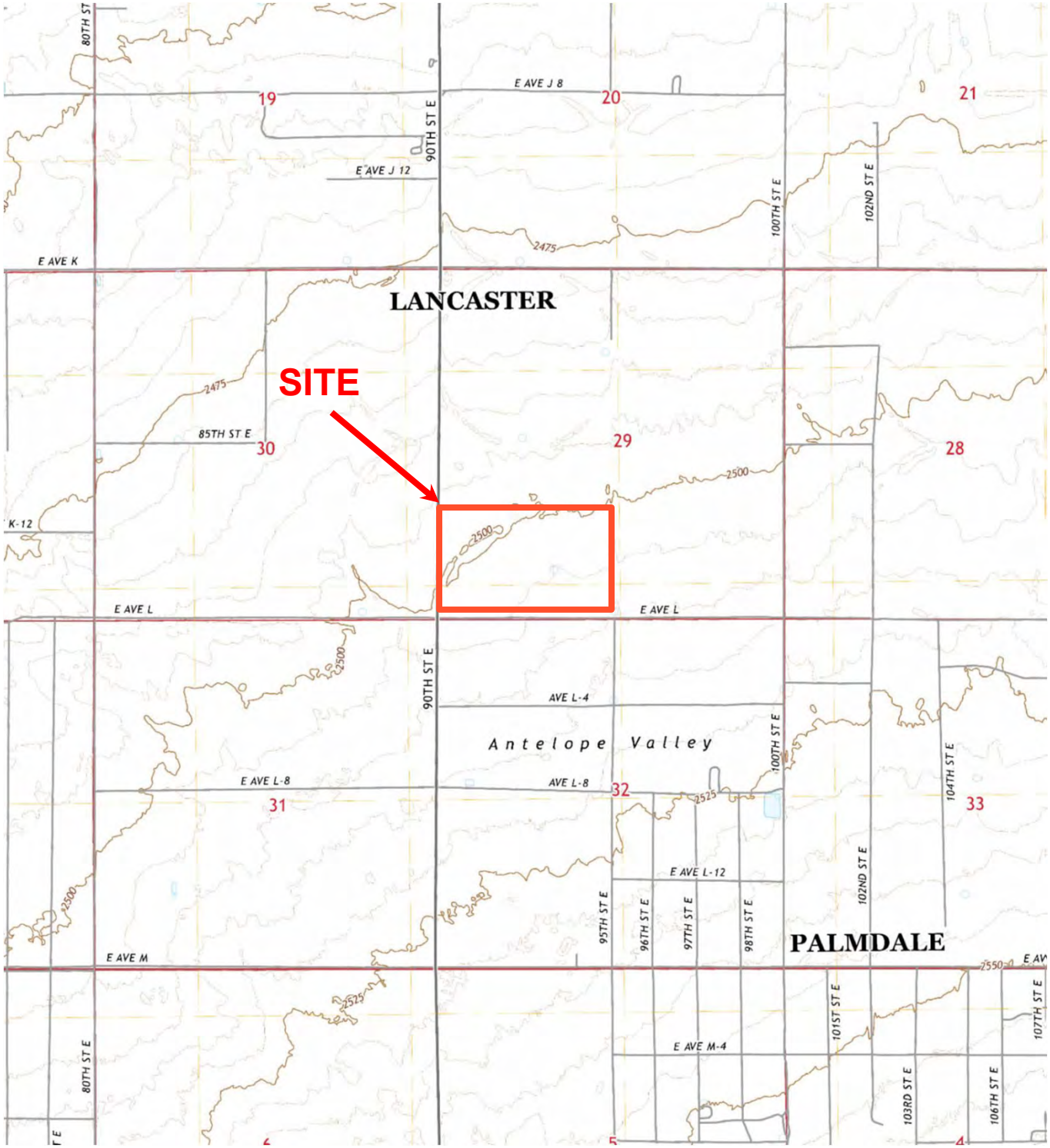


Figure 1: Site Location Map

CLIENT: Upstream Reliability Development LLC	Site Location: Agricultural Field 90th St. E. and E. Avenue L. Lancaster, California 93535
PROJECT #: UPRD-24-12039	

NV5
ALTA ENVIRONMENTAL

DRAWN: NS	APPROVED : EF	NORTH
SCALE: NOT TO SCALE	DATE: 2/21/24	

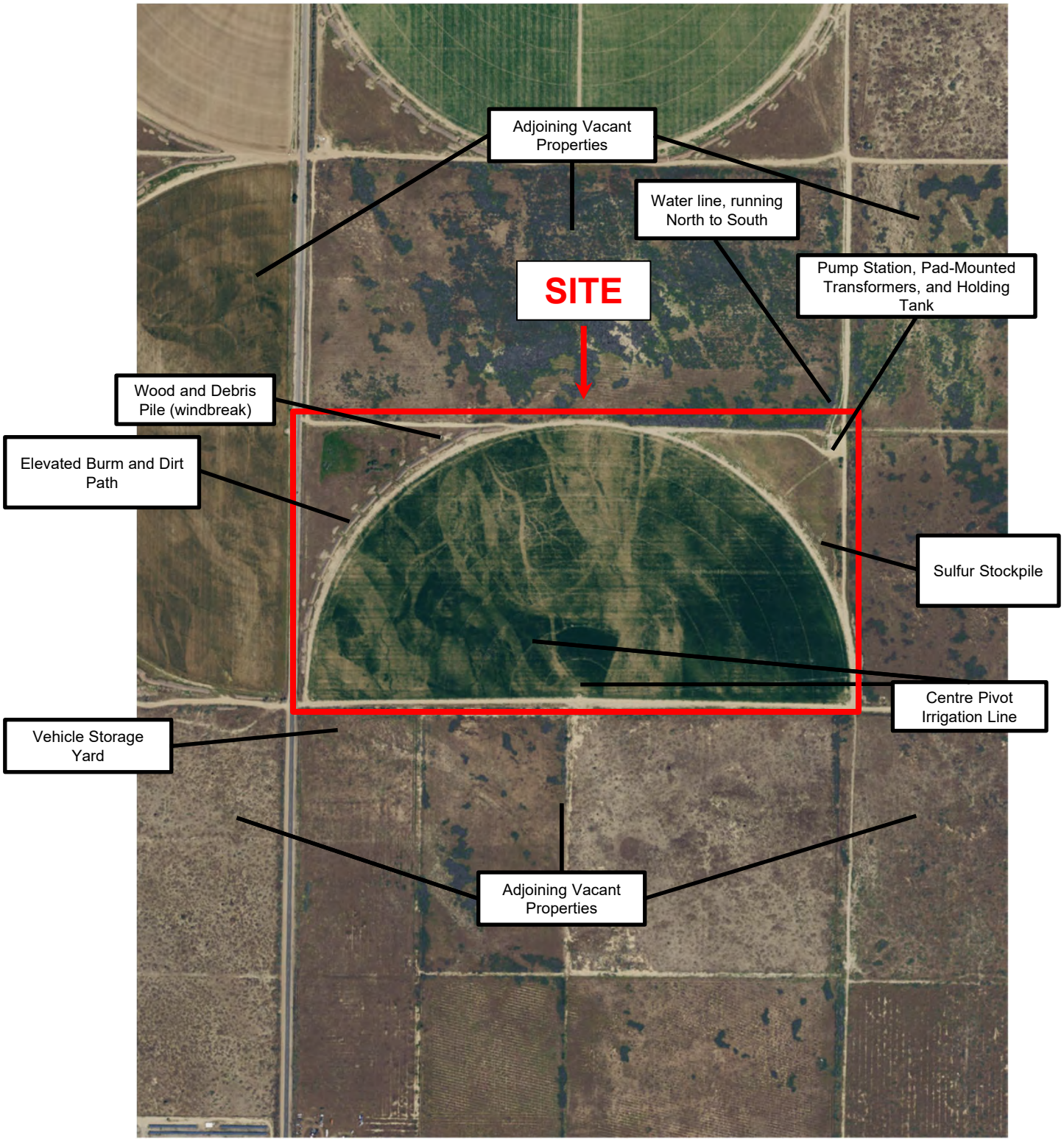
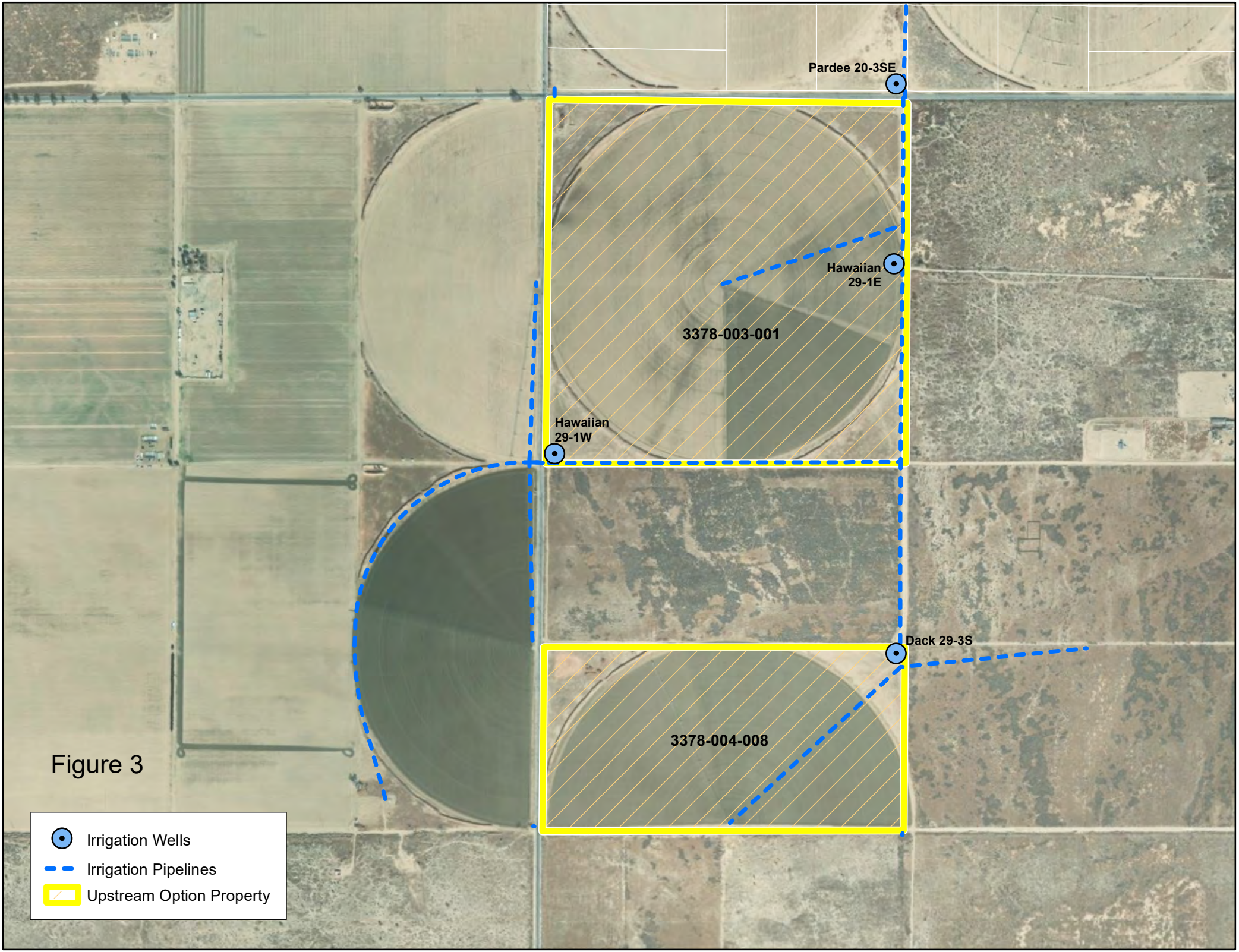


Figure 2: Site Vicinity Map

CLIENT: Upstream Reliability Development LLC	Site Location: Agricultural Field 90th St. E. and E. Avenue L. Lancaster, California 93535
PROJECT #: UPRD-24-12039	

NV5 ALTA ENVIRONMENTAL

DRAWN: NS	APPROVED : EF	NORTH
SCALE: NOT TO SCALE	DATE: 2/21/24	


Pardee 20-3SE
Hawaiian
29-1E
3378-003-001
Hawaiian
29-1W
Dack 29-3S
3378-004-008
Figure 3
Irrigation Wells
Irrigation Pipelines
Upstream Option Property

Appendix A

Representative Site Photographs



Photo 1: Site Facing Southeast



Photo 2: Site Facing Southwest



Photo 3: Site Facing Northwest

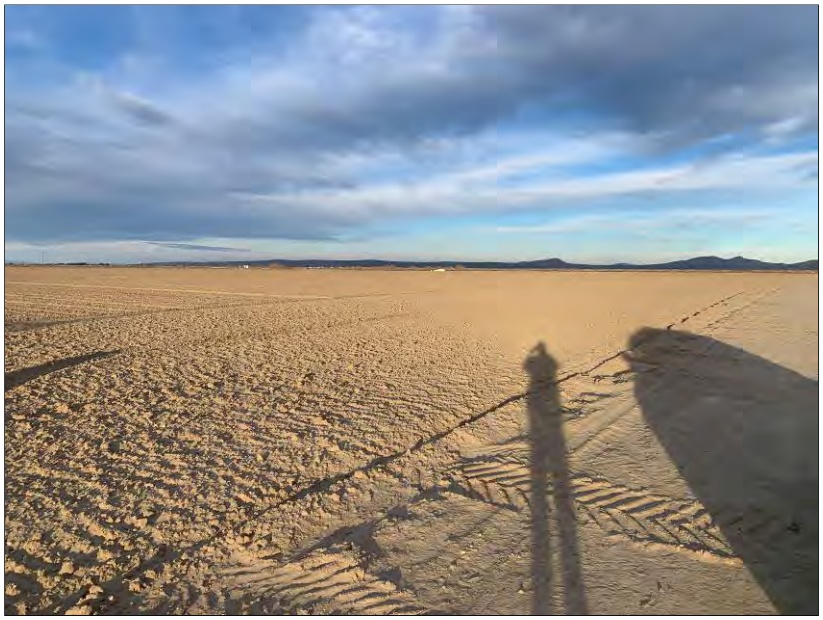


Photo 4: Site Facing North



Photo 5: Site Facing East



Photo 6: Site-adjacent vehicle storage lot, Southern Adjoining Property



Photo 7: Centre-Pivot Irrigation Array, Center Site



Photo 8: Wood Debris Pile, Northwestern Site Boundary, Northwest of Dirt Burm



Photo 9: Site Facing Southeast



Photo 10: Pad-Mounted Transformer, Associated Electrical Equipment, Aboveground Storage Tank with Chemical Markings and Connected to Water Line with Flow Control Valves, Northwestern Site Boundary



Photo 11: Sulfur Used for Soil Treatment



Photo 12: Centre-Pivot Irrigation Array, Arranged Facing Northwestern Site and Connected to Central Water Line with Flow Control Valves



Photo 13: Northwestern Adjoining Property



Photo 14: Northern Adjoining Property



Photo 15: Northeastern Adjoining Property



Photo 16: Eastern Adjoining Property



Photo 17: Southeastern Adjoining Property



Photo 18: Southern Adjoining Property



Photo 17: Western Adjoining Property

Appendix B

EDR Radius Report with GeoCheck

Lancaster Parcel 3378-004-008
Not Reported
LANCASTER, CA 93535

Inquiry Number: 7563392.14s
February 08, 2024

The EDR Radius Map™ Report with GeoCheck®

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

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Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E1527 - 21), the ASTM Standard Practice for Environmental Site Assessments for Forestland or Rural Property (E2247 - 16), the ASTM Standard Practice for Limited Environmental Due Diligence: Transaction Screen Process (E1528 - 22) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

NOT REPORTED
LANCASTER, CA 93535

COORDINATES

Latitude (North):	34.6626090 - 34° 39' 45.39''
Longitude (West):	117.9653230 - 117° 57' 55.16''
Universal Tranverse Mercator:	Zone 11
UTM X (Meters):	411549.1
UTM Y (Meters):	3835856.0
Elevation:	2505 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	50005266 ALPINE BUTTE, CA
Version Date:	2021

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from:	20200501
Source:	USDA

MAPPED SITES SUMMARY

Target Property Address:
NOT REPORTED
LANCASTER, CA 93535

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION

NO MAPPED SITES FOUND

EXECUTIVE SUMMARY

TARGET PROPERTY SEARCH RESULTS

The target property was not listed in any of the databases searched by EDR.

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

STANDARD ENVIRONMENTAL RECORDS

Lists of Federal NPL (Superfund) sites

NPL ---- National Priority List
Proposed NPL ---- Proposed National Priority List Sites
NPL LIENS ---- Federal Superfund Liens

Lists of Federal Delisted NPL sites

Delisted NPL ---- National Priority List Deletions

Lists of Federal sites subject to CERCLA removals and CERCLA orders

FEDERAL FACILITY ---- Federal Facility Site Information listing
SEMS ---- Superfund Enterprise Management System

Lists of Federal CERCLA sites with NFRAP

SEMS-ARCHIVE ---- Superfund Enterprise Management System Archive

Lists of Federal RCRA facilities undergoing Corrective Action

CORRACTS ---- Corrective Action Report

Lists of Federal RCRA TSD facilities

RCRA-TSDF ---- RCRA - Treatment, Storage and Disposal

Lists of Federal RCRA generators

RCRA-LQG ---- RCRA - Large Quantity Generators
RCRA-SQG ---- RCRA - Small Quantity Generators
RCRA-VSQG ---- RCRA - Very Small Quantity Generators (Formerly Conditionally Exempt Small Quantity Generators)

Federal institutional controls / engineering controls registries

LUCIS ---- Land Use Control Information System

US ENG CONTROLS..... Engineering Controls Sites List
US INST CONTROLS..... Institutional Controls Sites List

Federal ERNS list

ERNS..... Emergency Response Notification System

Lists of state- and tribal (Superfund) equivalent sites

RESPONSE..... State Response Sites

Lists of state- and tribal hazardous waste facilities

ENVIROSTOR..... EnviroStor Database

Lists of state and tribal landfills and solid waste disposal facilities

SWF/LF..... Solid Waste Information System

Lists of state and tribal leaking storage tanks

LUST..... Geotracker's Leaking Underground Fuel Tank Report
INDIAN LUST..... Leaking Underground Storage Tanks on Indian Land
CPS-SLIC..... Statewide SLIC Cases

Lists of state and tribal registered storage tanks

FEMA UST..... Underground Storage Tank Listing
UST..... Active UST Facilities
AST..... Aboveground Petroleum Storage Tank Facilities
INDIAN UST..... Underground Storage Tanks on Indian Land

Lists of state and tribal voluntary cleanup sites

VCP..... Voluntary Cleanup Program Properties
INDIAN VCP..... Voluntary Cleanup Priority Listing

Lists of state and tribal brownfield sites

BROWNFIELDS..... Considered Brownfieds Sites Listing

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS..... A Listing of Brownfields Sites

Local Lists of Landfill / Solid Waste Disposal Sites

WMUDS/SWAT..... Waste Management Unit Database
SWRCY..... Recycler Database
HAULERS..... Registered Waste Tire Haulers Listing
INDIAN ODI..... Report on the Status of Open Dumps on Indian Lands
DEBRIS REGION 9..... Torres Martinez Reservation Illegal Dump Site Locations

ODI ---------- Open Dump Inventory
IHS OPEN DUMPS ---------- Open Dumps on Indian Land

Local Lists of Hazardous waste / Contaminated Sites

AOCONCERN ---------- Key Areas of Concerns in Los Angeles County
US HIST CDL ---------- Delisted National Clandestine Laboratory Register
HIST Cal-Sites ---------- Historical Calsites Database
SCH ---------- School Property Evaluation Program
CDL ---------- Clandestine Drug Labs
CERS HAZ WASTE ---------- California Environmental Reporting System Hazardous Waste
Toxic Pits ---------- Toxic Pits Cleanup Act Sites
US CDL ---------- National Clandestine Laboratory Register

Local Lists of Registered Storage Tanks

SWEEPS UST ---------- SWEEPS UST Listing
HIST UST ---------- Hazardous Substance Storage Container Database
CA FID UST ---------- Facility Inventory Database
CERS TANKS ---------- California Environmental Reporting System (CERS) Tanks

Local Land Records

LIENS ---------- Environmental Liens Listing
LIENS 2 ---------- CERCLA Lien Information
DEED ---------- Deed Restriction Listing

Records of Emergency Release Reports

HMIRS ---------- Hazardous Materials Information Reporting System
CHMIRS ---------- California Hazardous Material Incident Report System
LDS ---------- Land Disposal Sites Listing
MCS ---------- Military Cleanup Sites Listing
SPILLS 90 ---------- SPILLS 90 data from FirstSearch

Other Ascertainable Records

RCRA NonGen / NLR ---------- RCRA - Non Generators / No Longer Regulated
FUDS ---------- Formerly Used Defense Sites
DOD ---------- Department of Defense Sites
SCRD DRYCLEANERS ---------- State Coalition for Remediation of Drycleaners Listing
US FIN ASSUR ---------- Financial Assurance Information
EPA WATCH LIST ---------- EPA WATCH LIST
2020 COR ACTION ---------- 2020 Corrective Action Program List
TSCA ---------- Toxic Substances Control Act
TRIS ---------- Toxic Chemical Release Inventory System
SSTS ---------- Section 7 Tracking Systems
ROD ---------- Records Of Decision
RMP ---------- Risk Management Plans
RAATS ---------- RCRA Administrative Action Tracking System
PRP ---------- Potentially Responsible Parties
PADS ---------- PCB Activity Database System
ICIS ---------- Integrated Compliance Information System
FTTS ---------- FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

EXECUTIVE SUMMARY

MLTS	Material Licensing Tracking System
COAL ASH DOE	Steam-Electric Plant Operation Data
COAL ASH EPA	Coal Combustion Residues Surface Impoundments List
PCB TRANSFORMER	PCB Transformer Registration Database
RADINFO	Radiation Information Database
HIST FTTS	FIFRA/TSCA Tracking System Administrative Case Listing
DOT OPS	Incident and Accident Data
CONSENT	Superfund (CERCLA) Consent Decrees
INDIAN RESERV	Indian Reservations
FUSRAP	Formerly Utilized Sites Remedial Action Program
UMTRA	Uranium Mill Tailings Sites
LEAD SMELTERS	Lead Smelter Sites
US AIRS	Aerometric Information Retrieval System Facility Subsystem
US MINES	Mines Master Index File
ABANDONED MINES	Abandoned Mines
MINES MRDS	Mineral Resources Data System
FINDS	Facility Index System/Facility Registry System
UXO	Unexploded Ordnance Sites
ECHO	Enforcement & Compliance History Information
DOCKET HWC	Hazardous Waste Compliance Docket Listing
FUELS PROGRAM	EPA Fuels Program Registered Listing
PFAS NPL	Superfund Sites with PFAS Detections Information
PFAS FEDERAL SITES	Federal Sites PFAS Information
PFAS TRIS	List of PFAS Added to the TRI
PFAS TSCA	PFAS Manufacture and Imports Information
PFAS RCRA MANIFEST	PFAS Transfers Identified In the RCRA Database Listing
PFAS ATSDR	PFAS Contamination Site Location Listing
PFAS WQP	Ambient Environmental Sampling for PFAS
PFAS NPDES	Clean Water Act Discharge Monitoring Information
PFAS ECHO	Facilities in Industries that May Be Handling PFAS Listing
PFAS ECHO FIRE TRAINING	Facilities in Industries that May Be Handling PFAS Listing
PFAS PART 139 AIRPORT	All Certified Part 139 Airports PFAS Information Listing
AQUEOUS FOAM NRC	Aqueous Foam Related Incidents Listing
BIOSOLIDS	ICIS-NPDES Biosolids Facility Data
PFAS	PFAS Contamination Site Location Listing
AQUEOUS FOAM	Former Fire Training Facility Assessments Listing
CA BOND EXP. PLAN	Bond Expenditure Plan
CHROME PLATING	Chrome Plating Facilities Listing
Cortese	"Cortese" Hazardous Waste & Substances Sites List
CUPA Listings	CUPA Resources List
DRYCLEANERS	Cleaner Facilities
EMI	Emissions Inventory Data
ENF	Enforcement Action Listing
Financial Assurance	Financial Assurance Information Listing
ICE	Inspection, Compliance and Enforcement
HIST CORTESE	Hazardous Waste & Substance Site List
LOS ANGELES CO. HMS	HMS: Street Number List
HWP	EnviroStor Permitted Facilities Listing
HWT	Registered Hazardous Waste Transporter Database
HWTS	Hazardous Waste Tracking System
HAZNET	Facility and Manifest Data
LOS ANGELES CO LF METHANE	Methane Producing Landfills
MINES	Mines Site Location Listing
MWMP	Medical Waste Management Program Listing
NPDES	NPDES Permits Listing

PEST LIC ---- Pesticide Regulation Licenses Listing
PROC ---- Certified Processors Database
Notify 65 ---- Proposition 65 Records
HAZMAT ---- Hazardous Material Facilities
HAZMAT LA ---- Active & Inactive Hazardous Materials Inventory
LA Co. Site Mitigation ---- Site Mitigation List
UIC ---- UIC Listing
UIC GEO ---- UIC GEO (GEOTRACKER)
WASTEWATER PITS ---- Oil Wastewater Pits Listing
WDS ---- Waste Discharge System
WIP ---- Well Investigation Program Case List
MILITARY PRIV SITES ---- MILITARY PRIV SITES (GEOTRACKER)
PROJECT ---- PROJECT (GEOTRACKER)
WDR ---- Waste Discharge Requirements Listing
CIWQS ---- California Integrated Water Quality System
CERS ---- CERS
NON-CASE INFO ---- NON-CASE INFO (GEOTRACKER)
OTHER OIL GAS ---- OTHER OIL & GAS (GEOTRACKER)
PROD WATER PONDS ---- PROD WATER PONDS (GEOTRACKER)
SAMPLING POINT ---- SAMPLING POINT (GEOTRACKER)
WELL STIM PROJ ---- Well Stimulation Project (GEOTRACKER)
UST FINDER ---- UST Finder Database
UST FINDER RELEASE ---- UST Finder Releases Database

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP ---- EDR Proprietary Manufactured Gas Plants
EDR Hist Auto ---- EDR Exclusive Historical Auto Stations
EDR Hist Cleaner ---- EDR Exclusive Historical Cleaners

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA LF ---- Recovered Government Archive Solid Waste Facilities List
RGA LUST ---- Recovered Government Archive Leaking Underground Storage Tank

SURROUNDING SITES: SEARCH RESULTS

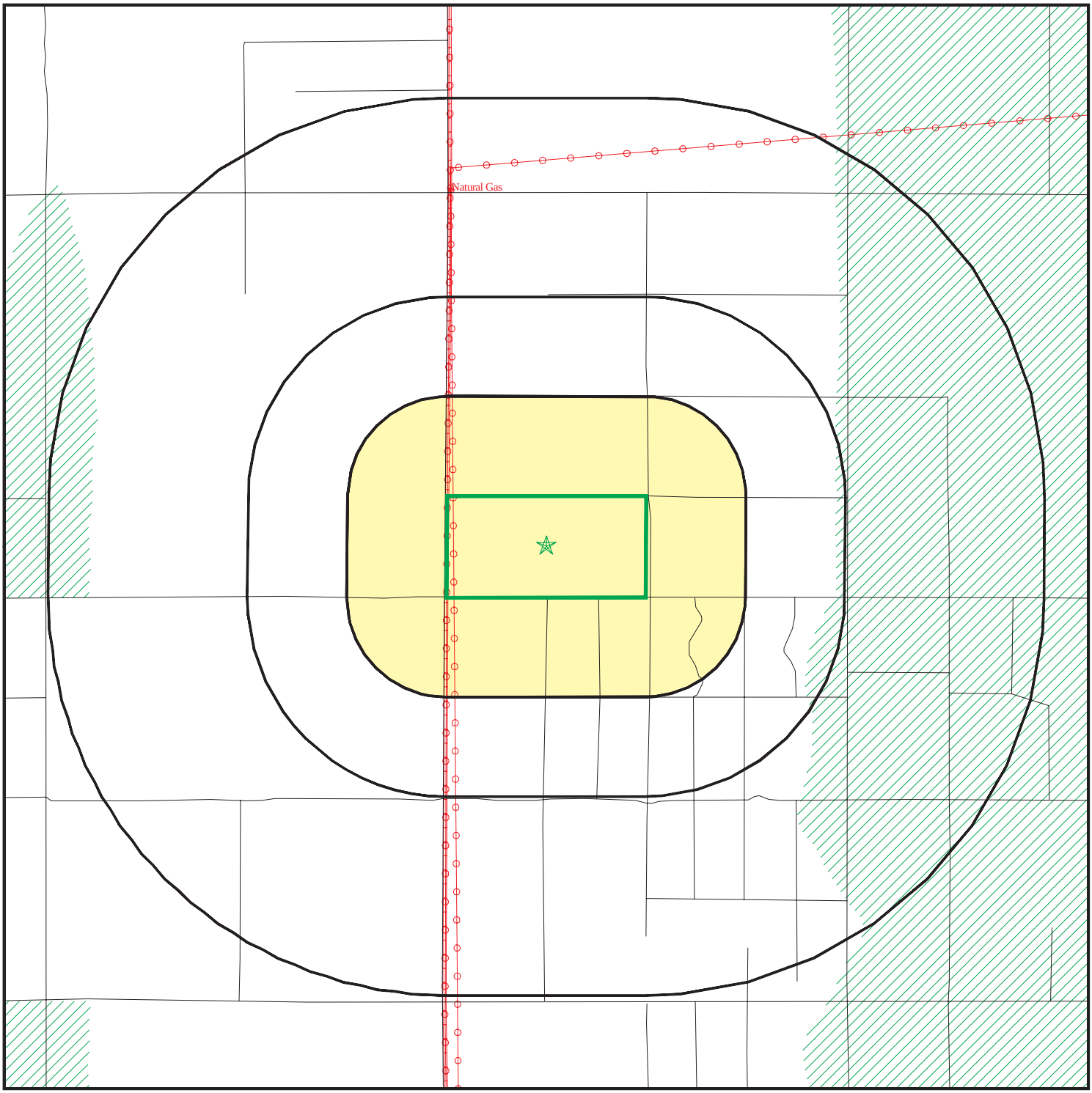
Surrounding sites were not identified.

Unmappable (orphan) sites are not considered in the foregoing analysis.

EXECUTIVE SUMMARY

There were no unmapped sites in this report.

OVERVIEW MAP - 7563392.14S



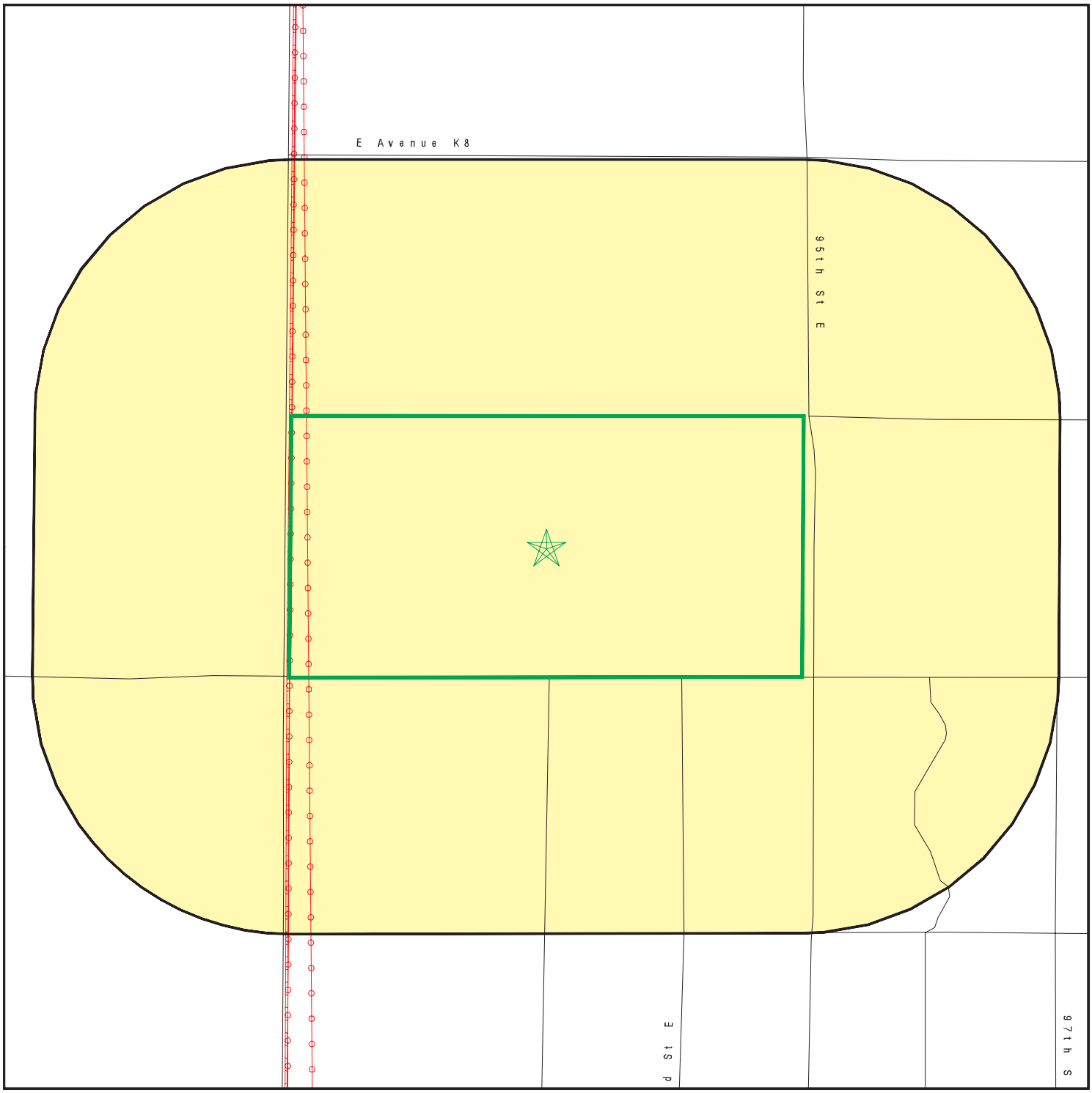
- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA
- Power transmission lines
- Pipelines
- Special Flood Hazard Area (1%)
- 0.2% Annual Chance Flood Hazard
- Areas of Concern

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME:	Lancaster Parcel 3378-004-008	CLIENT:	NV5
ADDRESS:	Not Reported	CONTACT:	Eric Fraske
	LANCASTER CA 93535	INQUIRY #:	7563392.14s
LAT/LONG:	34.662609 / 117.965323	DATE:	February 08, 2024 2:46 pm

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DETAIL MAP - 7563392.14S



- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- Sensitive Receptors
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA
- Power transmission lines
- Pipelines
- Special Flood Hazard Area (1%)
- 0.2% Annual Chance Flood Hazard
- Areas of Concern

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: Lancaster Parcel 3378-004-008	CLIENT: NV5
ADDRESS: Not Reported	CONTACT: Eric Fraske
LANCASTER CA 93535	INQUIRY #: 7563392.14s
LAT/LONG: 34.662609 / 117.965323	DATE: February 08, 2024 2:48 pm

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MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMENTAL RECORDS								
Lists of Federal NPL (Superfund) sites								
NPL	1.000		0	0	0	0	NR	0
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	1.000		0	0	0	0	NR	0
Lists of Federal Delisted NPL sites								
Delisted NPL	1.000		0	0	0	0	NR	0
Lists of Federal sites subject to CERCLA removals and CERCLA orders								
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
SEMS	0.500		0	0	0	NR	NR	0
Lists of Federal CERCLA sites with NFRAP								
SEMS-ARCHIVE	0.500		0	0	0	NR	NR	0
Lists of Federal RCRA facilities undergoing Corrective Action								
CORRACTS	1.000		0	0	0	0	NR	0
Lists of Federal RCRA TSD facilities								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
Lists of Federal RCRA generators								
RCRA-LQG	0.250		0	0	NR	NR	NR	0
RCRA-SQG	0.250		0	0	NR	NR	NR	0
RCRA-VSQG	0.250		0	0	NR	NR	NR	0
Federal institutional controls / engineering controls registries								
LUCIS	0.500		0	0	0	NR	NR	0
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROLS	0.500		0	0	0	NR	NR	0
Federal ERNS list								
ERNS	TP		NR	NR	NR	NR	NR	0
Lists of state- and tribal (Superfund) equivalent sites								
RESPONSE	1.000		0	0	0	0	NR	0
Lists of state- and tribal hazardous waste facilities								
ENVIROSTOR	1.000		0	0	0	0	NR	0
Lists of state and tribal landfills and solid waste disposal facilities								
SWF/LF	0.500		0	0	0	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
Lists of state and tribal leaking storage tanks								
LUST	0.500		0	0	0	NR	NR	0
INDIAN LUST	0.500		0	0	0	NR	NR	0
CPS-SLIC	0.500		0	0	0	NR	NR	0
Lists of state and tribal registered storage tanks								
FEMA UST	0.250		0	0	NR	NR	NR	0
UST	0.250		0	0	NR	NR	NR	0
AST	0.250		0	0	NR	NR	NR	0
INDIAN UST	0.250		0	0	NR	NR	NR	0
Lists of state and tribal voluntary cleanup sites								
VCP	0.500		0	0	0	NR	NR	0
INDIAN VCP	0.500		0	0	0	NR	NR	0
Lists of state and tribal brownfield sites								
BROWNFIELDS	0.500		0	0	0	NR	NR	0
ADDITIONAL ENVIRONMENTAL RECORDS								
Local Brownfield lists								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
Local Lists of Landfill / Solid Waste Disposal Sites								
WMUDS/SWAT	0.500		0	0	0	NR	NR	0
SWRCY	0.500		0	0	0	NR	NR	0
HAULERS	TP		NR	NR	NR	NR	NR	0
INDIAN ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
ODI	0.500		0	0	0	NR	NR	0
IHS OPEN DUMPS	0.500		0	0	0	NR	NR	0
Local Lists of Hazardous waste / Contaminated Sites								
AOCONCERN	1.000		0	0	0	0	NR	0
US HIST CDL	TP		NR	NR	NR	NR	NR	0
HIST Cal-Sites	1.000		0	0	0	0	NR	0
SCH	0.250		0	0	NR	NR	NR	0
CDL	TP		NR	NR	NR	NR	NR	0
CERS HAZ WASTE	0.250		0	0	NR	NR	NR	0
Toxic Pits	1.000		0	0	0	0	NR	0
US CDL	TP		NR	NR	NR	NR	NR	0
Local Lists of Registered Storage Tanks								
SWEEPS UST	0.250		0	0	NR	NR	NR	0
HIST UST	0.250		0	0	NR	NR	NR	0
CA FID UST	0.250		0	0	NR	NR	NR	0
CERS TANKS	0.250		0	0	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
Local Land Records								
LIENS	TP		NR	NR	NR	NR	NR	0
LIENS 2	TP		NR	NR	NR	NR	NR	0
DEED	0.500		0	0	0	NR	NR	0
Records of Emergency Release Reports								
HMIRS	TP		NR	NR	NR	NR	NR	0
CHMIRS	TP		NR	NR	NR	NR	NR	0
LDS	TP		NR	NR	NR	NR	NR	0
MCS	TP		NR	NR	NR	NR	NR	0
SPILLS 90	TP		NR	NR	NR	NR	NR	0
Other Ascertainable Records								
RCRA NonGen / NLR	0.250		0	0	NR	NR	NR	0
FUDS	1.000		0	0	0	0	NR	0
DOD	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
US FIN ASSUR	TP		NR	NR	NR	NR	NR	0
EPA WATCH LIST	TP		NR	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
TSCA	TP		NR	NR	NR	NR	NR	0
TRIS	TP		NR	NR	NR	NR	NR	0
SSTS	TP		NR	NR	NR	NR	NR	0
ROD	1.000		0	0	0	0	NR	0
RMP	TP		NR	NR	NR	NR	NR	0
RAATS	TP		NR	NR	NR	NR	NR	0
PRP	TP		NR	NR	NR	NR	NR	0
PADS	TP		NR	NR	NR	NR	NR	0
ICIS	TP		NR	NR	NR	NR	NR	0
FTTS	TP		NR	NR	NR	NR	NR	0
MLTS	TP		NR	NR	NR	NR	NR	0
COAL ASH DOE	TP		NR	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
PCB TRANSFORMER	TP		NR	NR	NR	NR	NR	0
RADINFO	TP		NR	NR	NR	NR	NR	0
HIST FTTS	TP		NR	NR	NR	NR	NR	0
DOT OPS	TP		NR	NR	NR	NR	NR	0
CONSENT	1.000		0	0	0	0	NR	0
INDIAN RESERV	1.000		0	0	0	0	NR	0
FUSRAP	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
LEAD SMELTERS	TP		NR	NR	NR	NR	NR	0
US AIRS	TP		NR	NR	NR	NR	NR	0
US MINES	0.250		0	0	NR	NR	NR	0
ABANDONED MINES	0.250		0	0	NR	NR	NR	0
MINES MRDS	0.250		0	0	NR	NR	NR	0
FINDS	TP		NR	NR	NR	NR	NR	0
UXO	1.000		0	0	0	0	NR	0
ECHO	TP		NR	NR	NR	NR	NR	0
DOCKET HWC	TP		NR	NR	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
FUELS PROGRAM	0.250		0	0	NR	NR	NR	0
PFAS NPL	0.250		0	0	NR	NR	NR	0
PFAS FEDERAL SITES	0.250		0	0	NR	NR	NR	0
PFAS TRIS	0.250		0	0	NR	NR	NR	0
PFAS TSCA	0.250		0	0	NR	NR	NR	0
PFAS RCRA MANIFEST	0.250		0	0	NR	NR	NR	0
PFAS ATSDR	0.250		0	0	NR	NR	NR	0
PFAS WQP	0.250		0	0	NR	NR	NR	0
PFAS NPDES	0.250		0	0	NR	NR	NR	0
PFAS ECHO	0.250		0	0	NR	NR	NR	0
PFAS ECHO FIRE TRAINING	0.250		0	0	NR	NR	NR	0
PFAS PART 139 AIRPORT	0.250		0	0	NR	NR	NR	0
AQUEOUS FOAM NRC	0.250		0	0	NR	NR	NR	0
BIOSOLIDS	TP		NR	NR	NR	NR	NR	0
PFAS	0.250		0	0	NR	NR	NR	0
AQUEOUS FOAM	0.250		0	0	NR	NR	NR	0
CA BOND EXP. PLAN	1.000		0	0	0	0	NR	0
CHROME PLATING	0.500		0	0	0	NR	NR	0
Cortese	0.500		0	0	0	NR	NR	0
CUPA Listings	0.250		0	0	NR	NR	NR	0
DRYCLEANERS	0.250		0	0	NR	NR	NR	0
EMI	TP		NR	NR	NR	NR	NR	0
ENF	TP		NR	NR	NR	NR	NR	0
Financial Assurance	TP		NR	NR	NR	NR	NR	0
ICE	TP		NR	NR	NR	NR	NR	0
HIST CORTESE	0.500		0	0	0	NR	NR	0
LOS ANGELES CO. HMS	TP		NR	NR	NR	NR	NR	0
HWP	1.000		0	0	0	0	NR	0
HWT	0.250		0	0	NR	NR	NR	0
HWTS	TP		NR	NR	NR	NR	NR	0
HAZNET	TP		NR	NR	NR	NR	NR	0
LOS ANGELES CO LF METHANE	0.500		0	0	0	NR	NR	0
MINES	0.250		0	0	NR	NR	NR	0
MWMP	0.250		0	0	NR	NR	NR	0
NPDES	TP		NR	NR	NR	NR	NR	0
PEST LIC	TP		NR	NR	NR	NR	NR	0
PROC	0.500		0	0	0	NR	NR	0
Notify 65	1.000		0	0	0	0	NR	0
HAZMAT	0.250		0	0	NR	NR	NR	0
HAZMAT LA	0.250		0	0	NR	NR	NR	0
LA Co. Site Mitigation	TP		NR	NR	NR	NR	NR	0
UIC	TP		NR	NR	NR	NR	NR	0
UIC GEO	TP		NR	NR	NR	NR	NR	0
WASTEWATER PITS	0.500		0	0	0	NR	NR	0
WDS	TP		NR	NR	NR	NR	NR	0
WIP	0.250		0	0	NR	NR	NR	0
MILITARY PRIV SITES	TP		NR	NR	NR	NR	NR	0
PROJECT	TP		NR	NR	NR	NR	NR	0
WDR	TP		NR	NR	NR	NR	NR	0
CIWQS	TP		NR	NR	NR	NR	NR	0
CERS	TP		NR	NR	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
NON-CASE INFO	TP		NR	NR	NR	NR	NR	0
OTHER OIL GAS	TP		NR	NR	NR	NR	NR	0
PROD WATER PONDS	TP		NR	NR	NR	NR	NR	0
SAMPLING POINT	TP		NR	NR	NR	NR	NR	0
WELL STIM PROJ	TP		NR	NR	NR	NR	NR	0
UST FINDER	0.250		0	0	NR	NR	NR	0
UST FINDER RELEASE	0.500		0	0	0	NR	NR	0
EDR HIGH RISK HISTORICAL RECORDS								
EDR Exclusive Records								
EDR MGP	1.000		0	0	0	0	NR	0
EDR Hist Auto	0.125		0	NR	NR	NR	NR	0
EDR Hist Cleaner	0.125		0	NR	NR	NR	NR	0
EDR RECOVERED GOVERNMENT ARCHIVES								
Exclusive Recovered Govt. Archives								
RGA LF	TP		NR	NR	NR	NR	NR	0
RGA LUST	TP		NR	NR	NR	NR	NR	0
- Totals --		0	0	0	0	0	0	0

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

MAP FINDINGS

Map ID Direction Distance Elevation	Site	Database(s)	EDR ID Number EPA ID Number

NO SITES FOUND

Count: 0 records. ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
		NO SITES FOUND			

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

STANDARD ENVIRONMENTAL RECORDS

Lists of Federal NPL (Superfund) sites

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 12/26/2023
Date Data Arrived at EDR: 01/02/2024
Date Made Active in Reports: 01/24/2024
Number of Days to Update: 22

Source: EPA
Telephone: N/A
Last EDR Contact: 02/01/2024
Next Scheduled EDR Contact: 04/08/2024
Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 3
Telephone 215-814-5418

EPA Region 4
Telephone 404-562-8033

EPA Region 5
Telephone 312-886-6686

EPA Region 10
Telephone 206-553-8665

EPA Region 6
Telephone: 214-655-6659

EPA Region 7
Telephone: 913-551-7247

EPA Region 8
Telephone: 303-312-6774

EPA Region 9
Telephone: 415-947-4246

Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 12/26/2023
Date Data Arrived at EDR: 01/02/2024
Date Made Active in Reports: 01/24/2024
Number of Days to Update: 22

Source: EPA
Telephone: N/A
Last EDR Contact: 02/01/2024
Next Scheduled EDR Contact: 04/08/2024
Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991
Date Data Arrived at EDR: 02/02/1994
Date Made Active in Reports: 03/30/1994
Number of Days to Update: 56

Source: EPA
Telephone: 202-564-4267
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

Lists of Federal Delisted NPL sites

Delisted NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 12/26/2023
Date Data Arrived at EDR: 01/02/2024
Date Made Active in Reports: 01/24/2024
Number of Days to Update: 22

Source: EPA
Telephone: N/A
Last EDR Contact: 02/01/2024
Next Scheduled EDR Contact: 04/08/2024
Data Release Frequency: Quarterly

Lists of Federal sites subject to CERCLA removals and CERCLA orders

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 12/20/2023
Date Data Arrived at EDR: 12/20/2023
Date Made Active in Reports: 01/24/2024
Number of Days to Update: 35

Source: Environmental Protection Agency
Telephone: 703-603-8704
Last EDR Contact: 12/20/2023
Next Scheduled EDR Contact: 04/08/2024
Data Release Frequency: Varies

SEMS: Superfund Enterprise Management System

SEMS (Superfund Enterprise Management System) tracks hazardous waste sites, potentially hazardous waste sites, and remedial activities performed in support of EPA's Superfund Program across the United States. The list was formerly know as CERCLIS, renamed to SEMS by the EPA in 2015. The list contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). This dataset also contains sites which are either proposed to or on the National Priorities List (NPL) and the sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 09/19/2023
Date Data Arrived at EDR: 10/03/2023
Date Made Active in Reports: 10/19/2023
Number of Days to Update: 16

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 02/01/2024
Next Scheduled EDR Contact: 04/22/2024
Data Release Frequency: Quarterly

Lists of Federal CERCLA sites with NFRAP

SEMS-ARCHIVE: Superfund Enterprise Management System Archive

SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list the site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. The decision does not necessarily mean that there is no hazard associated with a given site; it only means that. based upon available information, the location is not judged to be potential NPL site.

Date of Government Version: 09/19/2023
Date Data Arrived at EDR: 10/03/2023
Date Made Active in Reports: 10/19/2023
Number of Days to Update: 16

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 02/01/2024
Next Scheduled EDR Contact: 04/22/2024
Data Release Frequency: Quarterly

Lists of Federal RCRA facilities undergoing Corrective Action

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 12/04/2023
Date Data Arrived at EDR: 12/06/2023
Date Made Active in Reports: 12/12/2023
Number of Days to Update: 6

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 12/06/2023
Next Scheduled EDR Contact: 04/01/2024
Data Release Frequency: Quarterly

Lists of Federal RCRA TSD facilities

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 12/04/2023
Date Data Arrived at EDR: 12/06/2023
Date Made Active in Reports: 12/12/2023
Number of Days to Update: 6

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 12/06/2023
Next Scheduled EDR Contact: 04/01/2024
Data Release Frequency: Quarterly

Lists of Federal RCRA generators

RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 12/04/2023
Date Data Arrived at EDR: 12/06/2023
Date Made Active in Reports: 12/12/2023
Number of Days to Update: 6

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 12/06/2023
Next Scheduled EDR Contact: 04/01/2024
Data Release Frequency: Quarterly

RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 12/04/2023
Date Data Arrived at EDR: 12/06/2023
Date Made Active in Reports: 12/12/2023
Number of Days to Update: 6

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 12/06/2023
Next Scheduled EDR Contact: 04/01/2024
Data Release Frequency: Quarterly

RCRA-VSQG: RCRA - Very Small Quantity Generators (Formerly Conditionally Exempt Small Quantity Generators)

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Very small quantity generators (VSQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 12/04/2023
Date Data Arrived at EDR: 12/06/2023
Date Made Active in Reports: 12/12/2023
Number of Days to Update: 6

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 12/06/2023
Next Scheduled EDR Contact: 04/01/2024
Data Release Frequency: Quarterly

Federal institutional controls / engineering controls registries

LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 08/03/2023
Date Data Arrived at EDR: 08/07/2023
Date Made Active in Reports: 10/10/2023
Number of Days to Update: 64

Source: Department of the Navy
Telephone: 843-820-7326
Last EDR Contact: 02/02/2024
Next Scheduled EDR Contact: 05/20/2024
Data Release Frequency: Varies

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 08/21/2023
Date Data Arrived at EDR: 08/21/2023
Date Made Active in Reports: 11/07/2023
Number of Days to Update: 78

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 11/17/2023
Next Scheduled EDR Contact: 03/04/2024
Data Release Frequency: Varies

US INST CONTROLS: Institutional Controls Sites List

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 08/21/2023
Date Data Arrived at EDR: 08/21/2023
Date Made Active in Reports: 11/07/2023
Number of Days to Update: 78

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 11/17/2023
Next Scheduled EDR Contact: 03/04/2024
Data Release Frequency: Varies

Federal ERNS list

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 09/18/2023
Date Data Arrived at EDR: 09/20/2023
Date Made Active in Reports: 12/11/2023
Number of Days to Update: 82

Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Last EDR Contact: 12/13/2023
Next Scheduled EDR Contact: 04/01/2024
Data Release Frequency: Quarterly

Lists of state- and tribal (Superfund) equivalent sites

RESPONSE: State Response Sites

Identifies confirmed release sites where DTSC is involved in remediation, either in a lead or oversight capacity. These confirmed release sites are generally high-priority and high potential risk.

Date of Government Version: 10/23/2023
Date Data Arrived at EDR: 10/24/2023
Date Made Active in Reports: 01/11/2024
Number of Days to Update: 79

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 01/23/2024
Next Scheduled EDR Contact: 05/06/2024
Data Release Frequency: Quarterly

Lists of state- and tribal hazardous waste facilities

ENVIROSTOR: EnviroStor Database

The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifes sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

Date of Government Version: 10/23/2023
Date Data Arrived at EDR: 10/24/2023
Date Made Active in Reports: 01/11/2024
Number of Days to Update: 79

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 01/23/2024
Next Scheduled EDR Contact: 05/06/2024
Data Release Frequency: Quarterly

Lists of state and tribal landfills and solid waste disposal facilities

SWF/LF (SWIS): Solid Waste Information System

Active, Closed and Inactive Landfills. SWF/LF records typically contain an inve ntory of solid waste disposal facilities or landfills. These may be active or i nactive facilities or open dumps that failed to meet RCRA Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 11/06/2023
Date Data Arrived at EDR: 11/07/2023
Date Made Active in Reports: 02/05/2024
Number of Days to Update: 90

Source: Department of Resources Recycling and Recovery
Telephone: 916-341-6320
Last EDR Contact: 02/06/2024
Next Scheduled EDR Contact: 05/20/2024
Data Release Frequency: Quarterly

Lists of state and tribal leaking storage tanks

LUST REG 6L: Leaking Underground Storage Tank Case Listing
For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/09/2003
Date Data Arrived at EDR: 09/10/2003
Date Made Active in Reports: 10/07/2003
Number of Days to Update: 27

Source: California Regional Water Quality Control Board Lahontan Region (6)
Telephone: 530-542-5572
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

LUST: Leaking Underground Fuel Tank Report (GEOTRACKER)
Leaking Underground Storage Tank (LUST) Sites included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 09/05/2023
Date Data Arrived at EDR: 09/06/2023
Date Made Active in Reports: 11/22/2023
Number of Days to Update: 77

Source: State Water Resources Control Board
Telephone: see region list
Last EDR Contact: 12/05/2023
Next Scheduled EDR Contact: 03/18/2024
Data Release Frequency: Quarterly

LUST REG 9: Leaking Underground Storage Tank Report
Orange, Riverside, San Diego counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 03/01/2001
Date Data Arrived at EDR: 04/23/2001
Date Made Active in Reports: 05/21/2001
Number of Days to Update: 28

Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-637-5595
Last EDR Contact: 09/26/2011
Next Scheduled EDR Contact: 01/09/2012
Data Release Frequency: No Update Planned

LUST REG 8: Leaking Underground Storage Tanks
California Regional Water Quality Control Board Santa Ana Region (8). For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/14/2005
Date Data Arrived at EDR: 02/15/2005
Date Made Active in Reports: 03/28/2005
Number of Days to Update: 41

Source: California Regional Water Quality Control Board Santa Ana Region (8)
Telephone: 909-782-4496
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

LUST REG 7: Leaking Underground Storage Tank Case Listing
Leaking Underground Storage Tank locations. Imperial, Riverside, San Diego, Santa Barbara counties.

Date of Government Version: 02/26/2004
Date Data Arrived at EDR: 02/26/2004
Date Made Active in Reports: 03/24/2004
Number of Days to Update: 27

Source: California Regional Water Quality Control Board Colorado River Basin Region (7)
Telephone: 760-776-8943
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

LUST REG 5: Leaking Underground Storage Tank Database
Leaking Underground Storage Tank locations. Alameda, Alpine, Amador, Butte, Colusa, Contra Costa, Calveras, El Dorado, Fresno, Glenn, Kern, Kings, Lake, Lassen, Madera, Mariposa, Merced, Modoc, Napa, Nevada, Placer, Plumas, Sacramento, San Joaquin, Shasta, Solano, Stanislaus, Sutter, Tehama, Tulare, Tuolumne, Yolo, Yuba counties.

Date of Government Version: 07/01/2008
Date Data Arrived at EDR: 07/22/2008
Date Made Active in Reports: 07/31/2008
Number of Days to Update: 9

Source: California Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-4834
Last EDR Contact: 07/01/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: No Update Planned

LUST REG 4: Underground Storage Tank Leak List

Los Angeles, Ventura counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35

Source: California Regional Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6710
Last EDR Contact: 09/06/2011
Next Scheduled EDR Contact: 12/19/2011
Data Release Frequency: No Update Planned

LUST REG 3: Leaking Underground Storage Tank Database

Leaking Underground Storage Tank locations. Monterey, San Benito, San Luis Obispo, Santa Barbara, Santa Cruz counties.

Date of Government Version: 05/19/2003
Date Data Arrived at EDR: 05/19/2003
Date Made Active in Reports: 06/02/2003
Number of Days to Update: 14

Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-542-4786
Last EDR Contact: 07/18/2011
Next Scheduled EDR Contact: 10/31/2011
Data Release Frequency: No Update Planned

LUST REG 2: Fuel Leak List

Leaking Underground Storage Tank locations. Alameda, Contra Costa, Marin, Napa, San Francisco, San Mateo, Santa Clara, Solano, Sonoma counties.

Date of Government Version: 09/30/2004
Date Data Arrived at EDR: 10/20/2004
Date Made Active in Reports: 11/19/2004
Number of Days to Update: 30

Source: California Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-622-2433
Last EDR Contact: 09/19/2011
Next Scheduled EDR Contact: 01/02/2012
Data Release Frequency: No Update Planned

LUST REG 1: Active Toxic Site Investigation

Del Norte, Humboldt, Lake, Mendocino, Modoc, Siskiyou, Sonoma, Trinity counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/01/2001
Date Data Arrived at EDR: 02/28/2001
Date Made Active in Reports: 03/29/2001
Number of Days to Update: 29

Source: California Regional Water Quality Control Board North Coast (1)
Telephone: 707-570-3769
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

LUST REG 6V: Leaking Underground Storage Tank Case Listing

Leaking Underground Storage Tank locations. Inyo, Kern, Los Angeles, Mono, San Bernardino counties.

Date of Government Version: 06/07/2005
Date Data Arrived at EDR: 06/07/2005
Date Made Active in Reports: 06/29/2005
Number of Days to Update: 22

Source: California Regional Water Quality Control Board Victorville Branch Office (6)
Telephone: 760-241-7365
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land

A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 04/20/2023
Date Data Arrived at EDR: 05/09/2023
Date Made Active in Reports: 07/14/2023
Number of Days to Update: 66

Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 01/17/2024
Next Scheduled EDR Contact: 04/29/2024
Data Release Frequency: Varies

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 04/19/2023
Date Data Arrived at EDR: 05/09/2023
Date Made Active in Reports: 07/14/2023
Number of Days to Update: 66

Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 01/17/2024
Next Scheduled EDR Contact: 04/29/2024
Data Release Frequency: Varies

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 04/20/2023
Date Data Arrived at EDR: 05/09/2023
Date Made Active in Reports: 07/14/2023
Number of Days to Update: 66

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 01/17/2024
Next Scheduled EDR Contact: 04/29/2024
Data Release Frequency: Varies

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 04/25/2023
Date Data Arrived at EDR: 05/09/2023
Date Made Active in Reports: 07/14/2023
Number of Days to Update: 66

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 01/17/2024
Next Scheduled EDR Contact: 04/29/2024
Data Release Frequency: Varies

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 04/26/2023
Date Data Arrived at EDR: 05/09/2023
Date Made Active in Reports: 07/14/2023
Number of Days to Update: 66

Source: EPA Region 6
Telephone: 214-665-6597
Last EDR Contact: 01/17/2024
Next Scheduled EDR Contact: 04/29/2024
Data Release Frequency: Varies

INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land
Leaking underground storage tanks located on Indian Land in Michigan, Minnesota and Wisconsin.

Date of Government Version: 04/14/2023
Date Data Arrived at EDR: 05/09/2023
Date Made Active in Reports: 07/14/2023
Number of Days to Update: 66

Source: EPA, Region 5
Telephone: 312-886-7439
Last EDR Contact: 01/17/2024
Next Scheduled EDR Contact: 04/29/2024
Data Release Frequency: Varies

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 04/19/2023
Date Data Arrived at EDR: 05/09/2023
Date Made Active in Reports: 07/14/2023
Number of Days to Update: 66

Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 01/17/2024
Next Scheduled EDR Contact: 04/29/2024
Data Release Frequency: Varies

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 04/20/2023
Date Data Arrived at EDR: 05/09/2023
Date Made Active in Reports: 07/14/2023
Number of Days to Update: 66

Source: EPA Region 4
Telephone: 404-562-8677
Last EDR Contact: 01/17/2024
Next Scheduled EDR Contact: 04/29/2024
Data Release Frequency: Varies

CPS-SLIC: Statewide SLIC Cases (GEOTRACKER)

Cleanup Program Sites (CPS; also known as Site Cleanups [SC] and formerly known as Spills, Leaks, Investigations, and Cleanups [SLIC] sites) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 09/05/2023
Date Data Arrived at EDR: 09/06/2023
Date Made Active in Reports: 11/28/2023
Number of Days to Update: 83

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/05/2023
Next Scheduled EDR Contact: 03/18/2024
Data Release Frequency: Varies

SLIC REG 1: Active Toxic Site Investigations

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2003
Date Data Arrived at EDR: 04/07/2003
Date Made Active in Reports: 04/25/2003
Number of Days to Update: 18

Source: California Regional Water Quality Control Board, North Coast Region (1)
Telephone: 707-576-2220
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

SLIC REG 2: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/30/2004
Date Data Arrived at EDR: 10/20/2004
Date Made Active in Reports: 11/19/2004
Number of Days to Update: 30

Source: Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-286-0457
Last EDR Contact: 09/19/2011
Next Scheduled EDR Contact: 01/02/2012
Data Release Frequency: No Update Planned

SLIC REG 3: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 05/18/2006
Date Data Arrived at EDR: 05/18/2006
Date Made Active in Reports: 06/15/2006
Number of Days to Update: 28

Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-549-3147
Last EDR Contact: 07/18/2011
Next Scheduled EDR Contact: 10/31/2011
Data Release Frequency: No Update Planned

SLIC REG 4: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 11/17/2004
Date Data Arrived at EDR: 11/18/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 47

Source: Region Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6600
Last EDR Contact: 07/01/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: No Update Planned

SLIC REG 5: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/01/2005
Date Data Arrived at EDR: 04/05/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 16

Source: Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-3291
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

SLIC REG 6V: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 05/24/2005
Date Data Arrived at EDR: 05/25/2005
Date Made Active in Reports: 06/16/2005
Number of Days to Update: 22

Source: Regional Water Quality Control Board, Victorville Branch
Telephone: 619-241-6583
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

SLIC REG 6L: SLIC Sites
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35

Source: California Regional Water Quality Control Board, Lahontan Region
Telephone: 530-542-5574
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

SLIC REG 7: SLIC List
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 11/24/2004
Date Data Arrived at EDR: 11/29/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 36

Source: California Regional Quality Control Board, Colorado River Basin Region
Telephone: 760-346-7491
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

SLIC REG 8: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2008
Date Data Arrived at EDR: 04/03/2008
Date Made Active in Reports: 04/14/2008
Number of Days to Update: 11

Source: California Region Water Quality Control Board Santa Ana Region (8)
Telephone: 951-782-3298
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

SLIC REG 9: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/10/2007
Date Data Arrived at EDR: 09/11/2007
Date Made Active in Reports: 09/28/2007
Number of Days to Update: 17

Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-467-2980
Last EDR Contact: 08/08/2011
Next Scheduled EDR Contact: 11/21/2011
Data Release Frequency: No Update Planned

Lists of state and tribal registered storage tanks

FEMA UST: Underground Storage Tank Listing
A listing of all FEMA owned underground storage tanks.

Date of Government Version: 03/08/2023
Date Data Arrived at EDR: 03/09/2023
Date Made Active in Reports: 05/30/2023
Number of Days to Update: 82

Source: FEMA
Telephone: 202-646-5797
Last EDR Contact: 01/11/2024
Next Scheduled EDR Contact: 04/15/2024
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

UST: Active UST Facilities
Active UST facilities gathered from the local regulatory agencies

Date of Government Version: 09/05/2023
Date Data Arrived at EDR: 09/06/2023
Date Made Active in Reports: 11/28/2023
Number of Days to Update: 83

Source: SWRCB
Telephone: 916-341-5851
Last EDR Contact: 12/05/2023
Next Scheduled EDR Contact: 03/18/2024
Data Release Frequency: Semi-Annually

UST CLOSURE: Proposed Closure of Underground Storage Tank (UST) Cases
UST cases that are being considered for closure by either the State Water Resources Control Board or the Executive Director have been posted for a 60-day public comment period. UST Case Closures being proposed for consideration by the State Water Resources Control Board. These are primarily UST cases that meet closure criteria under the decisional framework in State Water Board Resolution No. 92-49 and other Board orders. UST Case Closures proposed for consideration by the Executive Director pursuant to State Water Board Resolution No. 2012-0061. These are cases that meet the criteria of the Low-Threat UST Case Closure Policy. UST Case Closure Review Denials and Approved Orders.

Date of Government Version: 08/10/2023
Date Data Arrived at EDR: 09/06/2023
Date Made Active in Reports: 11/28/2023
Number of Days to Update: 83

Source: State Water Resources Control Board
Telephone: 916-327-7844
Last EDR Contact: 11/30/2023
Next Scheduled EDR Contact: 03/18/2024
Data Release Frequency: Varies

MILITARY UST SITES: Military UST Sites (GEOTRACKER)
Military ust sites

Date of Government Version: 09/05/2023
Date Data Arrived at EDR: 09/06/2023
Date Made Active in Reports: 11/27/2023
Number of Days to Update: 82

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/05/2023
Next Scheduled EDR Contact: 03/18/2024
Data Release Frequency: Varies

AST: Aboveground Petroleum Storage Tank Facilities
A listing of aboveground storage tank petroleum storage tank locations.

Date of Government Version: 07/06/2016
Date Data Arrived at EDR: 07/12/2016
Date Made Active in Reports: 09/19/2016
Number of Days to Update: 69

Source: California Environmental Protection Agency
Telephone: 916-327-5092
Last EDR Contact: 12/05/2023
Next Scheduled EDR Contact: 03/25/2024
Data Release Frequency: Varies

INDIAN UST R5: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 04/14/2023
Date Data Arrived at EDR: 05/09/2023
Date Made Active in Reports: 07/14/2023
Number of Days to Update: 66

Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 01/17/2024
Next Scheduled EDR Contact: 04/29/2024
Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 04/26/2023
Date Data Arrived at EDR: 05/09/2023
Date Made Active in Reports: 07/14/2023
Number of Days to Update: 66

Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 01/17/2024
Next Scheduled EDR Contact: 04/29/2024
Data Release Frequency: Varies

INDIAN UST R4: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 04/20/2023
Date Data Arrived at EDR: 05/09/2023
Date Made Active in Reports: 07/14/2023
Number of Days to Update: 66

Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 01/17/2024
Next Scheduled EDR Contact: 04/29/2024
Data Release Frequency: Varies

INDIAN UST R10: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 04/20/2023
Date Data Arrived at EDR: 05/09/2023
Date Made Active in Reports: 07/14/2023
Number of Days to Update: 66

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 01/17/2024
Next Scheduled EDR Contact: 04/29/2024
Data Release Frequency: Varies

INDIAN UST R9: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 04/19/2023
Date Data Arrived at EDR: 05/09/2023
Date Made Active in Reports: 07/14/2023
Number of Days to Update: 66

Source: EPA Region 9
Telephone: 415-972-3368
Last EDR Contact: 01/17/2024
Next Scheduled EDR Contact: 04/29/2024
Data Release Frequency: Varies

INDIAN UST R8: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 04/20/2023
Date Data Arrived at EDR: 05/09/2023
Date Made Active in Reports: 07/14/2023
Number of Days to Update: 66

Source: EPA Region 8
Telephone: 303-312-6137
Last EDR Contact: 01/17/2024
Next Scheduled EDR Contact: 04/29/2024
Data Release Frequency: Varies

INDIAN UST R7: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 04/25/2023
Date Data Arrived at EDR: 05/09/2023
Date Made Active in Reports: 07/14/2023
Number of Days to Update: 66

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 01/17/2024
Next Scheduled EDR Contact: 04/29/2024
Data Release Frequency: Varies

INDIAN UST R1: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 04/20/2023
Date Data Arrived at EDR: 05/09/2023
Date Made Active in Reports: 07/14/2023
Number of Days to Update: 66

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 01/17/2024
Next Scheduled EDR Contact: 04/29/2024
Data Release Frequency: Varies

Lists of state and tribal voluntary cleanup sites

VCP: Voluntary Cleanup Program Properties

Contains low threat level properties with either confirmed or unconfirmed releases and the project proponents have request that DTSC oversee investigation and/or cleanup activities and have agreed to provide coverage for DTSC's costs.

Date of Government Version: 10/23/2023
Date Data Arrived at EDR: 10/24/2023
Date Made Active in Reports: 01/11/2024
Number of Days to Update: 79

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 01/23/2024
Next Scheduled EDR Contact: 05/06/2024
Data Release Frequency: Quarterly

INDIAN VCP R7: Voluntary Cleanup Priority Lisitng

A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008
Date Data Arrived at EDR: 04/22/2008
Date Made Active in Reports: 05/19/2008
Number of Days to Update: 27

Source: EPA, Region 7
Telephone: 913-551-7365
Last EDR Contact: 07/08/2021
Next Scheduled EDR Contact: 07/20/2009
Data Release Frequency: Varies

INDIAN VCP R1: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 07/27/2015
Date Data Arrived at EDR: 09/29/2015
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 142

Source: EPA, Region 1
Telephone: 617-918-1102
Last EDR Contact: 12/12/2023
Next Scheduled EDR Contact: 04/01/2024
Data Release Frequency: Varies

Lists of state and tribal brownfield sites

BROWNFIELDS: Considered Brownfieds Sites Listing

A listing of sites the SWRCB considers to be Brownfields since these are sites have come to them through the MOA Process.

Date of Government Version: 09/19/2023
Date Data Arrived at EDR: 09/20/2023
Date Made Active in Reports: 12/08/2023
Number of Days to Update: 79

Source: State Water Resources Control Board
Telephone: 916-323-7905
Last EDR Contact: 12/13/2023
Next Scheduled EDR Contact: 04/01/2024
Data Release Frequency: Quarterly

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites

Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 08/15/2023
Date Data Arrived at EDR: 08/30/2023
Date Made Active in Reports: 12/01/2023
Number of Days to Update: 93

Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 12/14/2023
Next Scheduled EDR Contact: 03/25/2024
Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

WMUDS/SWAT: Waste Management Unit Database

Waste Management Unit Database System. WMUDS is used by the State Water Resources Control Board staff and the Regional Water Quality Control Boards for program tracking and inventory of waste management units. WMUDS is composed of the following databases: Facility Information, Scheduled Inspections Information, Waste Management Unit Information, SWAT Program Information, SWAT Report Summary Information, SWAT Report Summary Data, Chapter 15 (formerly Subchapter 15) Information, Chapter 15 Monitoring Parameters, TPCA Program Information, RCRA Program Information, Closure Information, and Interested Parties Information.

Date of Government Version: 04/01/2000
Date Data Arrived at EDR: 04/10/2000
Date Made Active in Reports: 05/10/2000
Number of Days to Update: 30

Source: State Water Resources Control Board
Telephone: 916-227-4448
Last EDR Contact: 01/22/2024
Next Scheduled EDR Contact: 05/06/2024
Data Release Frequency: No Update Planned

SWRCY: Recycler Database

A listing of recycling facilities in California.

Date of Government Version: 09/05/2023
Date Data Arrived at EDR: 09/06/2023
Date Made Active in Reports: 11/28/2023
Number of Days to Update: 83

Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 11/29/2023
Next Scheduled EDR Contact: 03/18/2024
Data Release Frequency: Quarterly

HAULERS: Registered Waste Tire Haulers Listing

A listing of registered waste tire haulers.

Date of Government Version: 11/16/2022
Date Data Arrived at EDR: 11/22/2022
Date Made Active in Reports: 02/13/2023
Number of Days to Update: 83

Source: Integrated Waste Management Board
Telephone: 916-341-6422
Last EDR Contact: 02/05/2024
Next Scheduled EDR Contact: 05/20/2024
Data Release Frequency: Varies

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands

Location of open dumps on Indian land.

Date of Government Version: 12/31/1998
Date Data Arrived at EDR: 12/03/2007
Date Made Active in Reports: 01/24/2008
Number of Days to Update: 52

Source: Environmental Protection Agency
Telephone: 703-308-8245
Last EDR Contact: 01/26/2024
Next Scheduled EDR Contact: 05/06/2024
Data Release Frequency: Varies

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations

A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009
Date Data Arrived at EDR: 05/07/2009
Date Made Active in Reports: 09/21/2009
Number of Days to Update: 137

Source: EPA, Region 9
Telephone: 415-947-4219
Last EDR Contact: 01/11/2024
Next Scheduled EDR Contact: 04/29/2024
Data Release Frequency: No Update Planned

ODI: Open Dump Inventory

An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985
Date Data Arrived at EDR: 08/09/2004
Date Made Active in Reports: 09/17/2004
Number of Days to Update: 39

Source: Environmental Protection Agency
Telephone: 800-424-9346
Last EDR Contact: 06/09/2004
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

IHS OPEN DUMPS: Open Dumps on Indian Land

A listing of all open dumps located on Indian Land in the United States.

Date of Government Version: 04/01/2014
Date Data Arrived at EDR: 08/06/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 176

Source: Department of Health & Human Serivces, Indian Health Service
Telephone: 301-443-1452
Last EDR Contact: 01/17/2024
Next Scheduled EDR Contact: 05/06/2024
Data Release Frequency: Varies

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL: National Clandestine Laboratory Register

A listing of clandestine drug lab locations that have been removed from the DEAs National Clandestine Laboratory Register.

Date of Government Version: 11/17/2023
Date Data Arrived at EDR: 11/17/2023
Date Made Active in Reports: 02/07/2024
Number of Days to Update: 82

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 11/17/2023
Next Scheduled EDR Contact: 03/04/2024
Data Release Frequency: No Update Planned

HIST CAL-SITES: Calsites Database

The Calsites database contains potential or confirmed hazardous substance release properties. In 1996, California EPA reevaluated and significantly reduced the number of sites in the Calsites database. No longer updated by the state agency. It has been replaced by ENVIROSTOR.

Date of Government Version: 08/08/2005
Date Data Arrived at EDR: 08/03/2006
Date Made Active in Reports: 08/24/2006
Number of Days to Update: 21

Source: Department of Toxic Substance Control
Telephone: 916-323-3400
Last EDR Contact: 02/23/2009
Next Scheduled EDR Contact: 05/25/2009
Data Release Frequency: No Update Planned

SCH: School Property Evaluation Program

This category contains proposed and existing school sites that are being evaluated by DTSC for possible hazardous materials contamination. In some cases, these properties may be listed in the CalSites category depending on the level of threat to public health and safety or the environment they pose.

Date of Government Version: 10/23/2023
Date Data Arrived at EDR: 10/24/2023
Date Made Active in Reports: 01/11/2024
Number of Days to Update: 79

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 01/23/2024
Next Scheduled EDR Contact: 05/06/2024
Data Release Frequency: Quarterly

CDL: Clandestine Drug Labs

A listing of drug lab locations. Listing of a location in this database does not indicate that any illegal drug lab materials were or were not present there, and does not constitute a determination that the location either requires or does not require additional cleanup work.

Date of Government Version: 12/31/2021
Date Data Arrived at EDR: 09/28/2023
Date Made Active in Reports: 12/18/2023
Number of Days to Update: 81

Source: Department of Toxic Substances Control
Telephone: 916-255-6504
Last EDR Contact: 01/29/2024
Next Scheduled EDR Contact: 05/13/2024
Data Release Frequency: Varies

TOXIC PITS: Toxic Pits Cleanup Act Sites

Toxic PITS Cleanup Act Sites. TOXIC PITS identifies sites suspected of containing hazardous substances where cleanup has not yet been completed.

Date of Government Version: 07/01/1995
Date Data Arrived at EDR: 08/30/1995
Date Made Active in Reports: 09/26/1995
Number of Days to Update: 27

Source: State Water Resources Control Board
Telephone: 916-227-4364
Last EDR Contact: 01/26/2009
Next Scheduled EDR Contact: 04/27/2009
Data Release Frequency: No Update Planned

CERS HAZ WASTE: California Environmental Reporting System Hazardous Waste

List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the Hazardous Chemical Management, Hazardous Waste Onsite Treatment, Household Hazardous Waste Collection, Hazardous Waste Generator, and RCRA LQ HW Generator programs.

Date of Government Version: 10/16/2023
Date Data Arrived at EDR: 10/17/2023
Date Made Active in Reports: 01/09/2024
Number of Days to Update: 84

Source: CalEPA
Telephone: 916-323-2514
Last EDR Contact: 01/16/2024
Next Scheduled EDR Contact: 04/29/2024
Data Release Frequency: Quarterly

US CDL: Clandestine Drug Labs

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 11/17/2023
Date Data Arrived at EDR: 11/17/2023
Date Made Active in Reports: 02/07/2024
Number of Days to Update: 82

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 11/17/2023
Next Scheduled EDR Contact: 03/04/2024
Data Release Frequency: Quarterly

Local Lists of Registered Storage Tanks

SWEEPS UST: SWEEPS UST Listing

Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1990's. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

Date of Government Version: 06/01/1994
Date Data Arrived at EDR: 07/07/2005
Date Made Active in Reports: 08/11/2005
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: N/A
Last EDR Contact: 06/03/2005
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

HIST UST: Hazardous Substance Storage Container Database

The Hazardous Substance Storage Container Database is a historical listing of UST sites. Refer to local/county source for current data.

Date of Government Version: 10/15/1990
Date Data Arrived at EDR: 01/25/1991
Date Made Active in Reports: 02/12/1991
Number of Days to Update: 18

Source: State Water Resources Control Board
Telephone: 916-341-5851
Last EDR Contact: 07/26/2001
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

SAN FRANCISCO AST: Aboveground Storage Tank Site Listing

Aboveground storage tank sites

Date of Government Version: 10/30/2023
Date Data Arrived at EDR: 11/01/2023
Date Made Active in Reports: 01/23/2024
Number of Days to Update: 83

Source: San Francisco County Department of Public Health
Telephone: 415-252-3896
Last EDR Contact: 01/29/2024
Next Scheduled EDR Contact: 05/13/2024
Data Release Frequency: Varies

CA FID UST: Facility Inventory Database

The Facility Inventory Database (FID) contains a historical listing of active and inactive underground storage tank locations from the State Water Resource Control Board. Refer to local/county source for current data.

Date of Government Version: 10/31/1994
Date Data Arrived at EDR: 09/05/1995
Date Made Active in Reports: 09/29/1995
Number of Days to Update: 24

Source: California Environmental Protection Agency
Telephone: 916-341-5851
Last EDR Contact: 12/28/1998
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

CERS TANKS: California Environmental Reporting System (CERS) Tanks

List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the Aboveground Petroleum Storage and Underground Storage Tank regulatory programs.

Date of Government Version: 10/16/2023
Date Data Arrived at EDR: 10/17/2023
Date Made Active in Reports: 01/09/2024
Number of Days to Update: 84

Source: California Environmental Protection Agency
Telephone: 916-323-2514
Last EDR Contact: 01/16/2024
Next Scheduled EDR Contact: 04/29/2024
Data Release Frequency: Quarterly

Local Land Records

LIENS: Environmental Liens Listing

A listing of property locations with environmental liens for California where DTSC is a lien holder.

Date of Government Version: 08/22/2023
Date Data Arrived at EDR: 08/24/2023
Date Made Active in Reports: 11/07/2023
Number of Days to Update: 75

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 11/21/2023
Next Scheduled EDR Contact: 03/11/2024
Data Release Frequency: Varies

LIENS 2: CERCLA Lien Information

A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 11/14/2023
Date Data Arrived at EDR: 12/22/2023
Date Made Active in Reports: 01/24/2024
Number of Days to Update: 33

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 02/01/2024
Next Scheduled EDR Contact: 04/08/2024
Data Release Frequency: Semi-Annually

DEED: Deed Restriction Listing

Site Mitigation and Brownfields Reuse Program Facility Sites with Deed Restrictions & Hazardous Waste Management Program Facility Sites with Deed / Land Use Restriction. The DTSC Site Mitigation and Brownfields Reuse Program (SMBRP) list includes sites cleaned up under the program's oversight and generally does not include current or former hazardous waste facilities that required a hazardous waste facility permit. The list represents deed restrictions that are active. Some sites have multiple deed restrictions. The DTSC Hazardous Waste Management Program (HWMP) has developed a list of current or former hazardous waste facilities that have a recorded land use restriction at the local county recorder's office. The land use restrictions on this list were required by the DTSC HWMP as a result of the presence of hazardous substances that remain on site after the facility (or part of the facility) has been closed or cleaned up. The types of land use restriction include deed notice, deed restriction, or a land use restriction that binds current and future owners.

Date of Government Version: 08/28/2023
Date Data Arrived at EDR: 08/29/2023
Date Made Active in Reports: 11/13/2023
Number of Days to Update: 76

Source: DTSC and SWRCB
Telephone: 916-323-3400
Last EDR Contact: 11/22/2023
Next Scheduled EDR Contact: 03/11/2024
Data Release Frequency: Semi-Annually

Records of Emergency Release Reports

HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 09/18/2023
Date Data Arrived at EDR: 09/20/2023
Date Made Active in Reports: 11/14/2023
Number of Days to Update: 55

Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 12/13/2023
Next Scheduled EDR Contact: 04/01/2024
Data Release Frequency: Quarterly

CHMIRS: California Hazardous Material Incident Report System

California Hazardous Material Incident Reporting System. CHMIRS contains information on reported hazardous material incidents (accidental releases or spills).

Date of Government Version: 06/01/2023
Date Data Arrived at EDR: 07/18/2023
Date Made Active in Reports: 10/05/2023
Number of Days to Update: 79

Source: Office of Emergency Services
Telephone: 916-845-8400
Last EDR Contact: 01/18/2024
Next Scheduled EDR Contact: 04/29/2024
Data Release Frequency: Semi-Annually

LDS: Land Disposal Sites Listing (GEOTRACKER)

Land Disposal sites (Landfills) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 09/05/2023
Date Data Arrived at EDR: 09/06/2023
Date Made Active in Reports: 11/22/2023
Number of Days to Update: 77

Source: State Water Qualilty Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/05/2023
Next Scheduled EDR Contact: 03/18/2024
Data Release Frequency: Quarterly

MCS: Military Cleanup Sites Listing (GEOTRACKER)

Military sites (consisting of: Military UST sites; Military Privatized sites; and Military Cleanup sites [formerly known as DoD non UST]) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 09/05/2023
Date Data Arrived at EDR: 09/06/2023
Date Made Active in Reports: 11/22/2023
Number of Days to Update: 77

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/05/2023
Next Scheduled EDR Contact: 03/18/2024
Data Release Frequency: Quarterly

SPILLS 90: SPILLS90 data from FirstSearch

Spills 90 includes those spill and release records available exclusively from FirstSearch databases. Typically, they may include chemical, oil and/or hazardous substance spills recorded after 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 90.

Date of Government Version: 06/06/2012
Date Data Arrived at EDR: 01/03/2013
Date Made Active in Reports: 02/22/2013
Number of Days to Update: 50

Source: FirstSearch
Telephone: N/A
Last EDR Contact: 01/03/2013
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

Other Ascertainable Records

RCRA NonGen / NLR: RCRA - Non Generators / No Longer Regulated

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 12/04/2023
Date Data Arrived at EDR: 12/06/2023
Date Made Active in Reports: 12/12/2023
Number of Days to Update: 6

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 12/06/2023
Next Scheduled EDR Contact: 04/01/2024
Data Release Frequency: Quarterly

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 09/28/2023
Date Data Arrived at EDR: 11/10/2023
Date Made Active in Reports: 02/07/2024
Number of Days to Update: 89

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 11/10/2023
Next Scheduled EDR Contact: 02/26/2024
Data Release Frequency: Varies

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 06/07/2021
Date Data Arrived at EDR: 07/13/2021
Date Made Active in Reports: 03/09/2022
Number of Days to Update: 239

Source: USGS
Telephone: 888-275-8747
Last EDR Contact: 01/10/2024
Next Scheduled EDR Contact: 04/22/2024
Data Release Frequency: Varies

FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 04/02/2018
Date Data Arrived at EDR: 04/11/2018
Date Made Active in Reports: 11/06/2019
Number of Days to Update: 574

Source: U.S. Geological Survey
Telephone: 888-275-8747
Last EDR Contact: 01/05/2024
Next Scheduled EDR Contact: 04/15/2024
Data Release Frequency: N/A

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 07/30/2021
Date Data Arrived at EDR: 02/03/2023
Date Made Active in Reports: 02/10/2023
Number of Days to Update: 7

Source: Environmental Protection Agency
Telephone: 615-532-8599
Last EDR Contact: 02/06/2024
Next Scheduled EDR Contact: 05/20/2024
Data Release Frequency: Varies

US FIN ASSUR: Financial Assurance Information

All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.

Date of Government Version: 09/18/2023
Date Data Arrived at EDR: 09/20/2023
Date Made Active in Reports: 12/12/2023
Number of Days to Update: 83

Source: Environmental Protection Agency
Telephone: 202-566-1917
Last EDR Contact: 12/13/2023
Next Scheduled EDR Contact: 04/01/2024
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

EPA WATCH LIST: EPA WATCH LIST

EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.

Date of Government Version: 08/30/2013
Date Data Arrived at EDR: 03/21/2014
Date Made Active in Reports: 06/17/2014
Number of Days to Update: 88

Source: Environmental Protection Agency
Telephone: 617-520-3000
Last EDR Contact: 01/29/2024
Next Scheduled EDR Contact: 05/13/2024
Data Release Frequency: Quarterly

2020 COR ACTION: 2020 Corrective Action Program List

The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 09/30/2017
Date Data Arrived at EDR: 05/08/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 73

Source: Environmental Protection Agency
Telephone: 703-308-4044
Last EDR Contact: 02/02/2024
Next Scheduled EDR Contact: 05/13/2024
Data Release Frequency: Varies

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2020
Date Data Arrived at EDR: 06/14/2022
Date Made Active in Reports: 03/24/2023
Number of Days to Update: 283

Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 12/14/2023
Next Scheduled EDR Contact: 03/25/2024
Data Release Frequency: Every 4 Years

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2022
Date Data Arrived at EDR: 11/13/2023
Date Made Active in Reports: 02/07/2024
Number of Days to Update: 86

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 11/13/2023
Next Scheduled EDR Contact: 02/26/2024
Data Release Frequency: Annually

SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 10/19/2023
Date Data Arrived at EDR: 10/20/2023
Date Made Active in Reports: 01/16/2024
Number of Days to Update: 88

Source: EPA
Telephone: 202-564-4203
Last EDR Contact: 01/17/2024
Next Scheduled EDR Contact: 04/29/2024
Data Release Frequency: Annually

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 12/26/2023
Date Data Arrived at EDR: 01/02/2024
Date Made Active in Reports: 01/24/2024
Number of Days to Update: 22

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 02/01/2024
Next Scheduled EDR Contact: 03/11/2024
Data Release Frequency: Annually

RMP: Risk Management Plans

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 09/01/2023
Date Data Arrived at EDR: 09/27/2023
Date Made Active in Reports: 12/21/2023
Number of Days to Update: 85

Source: Environmental Protection Agency
Telephone: 202-564-8600
Last EDR Contact: 01/12/2024
Next Scheduled EDR Contact: 04/19/2024
Data Release Frequency: Varies

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995
Date Data Arrived at EDR: 07/03/1995
Date Made Active in Reports: 08/07/1995
Number of Days to Update: 35

Source: EPA
Telephone: 202-564-4104
Last EDR Contact: 06/02/2008
Next Scheduled EDR Contact: 09/01/2008
Data Release Frequency: No Update Planned

PRP: Potentially Responsible Parties

A listing of verified Potentially Responsible Parties

Date of Government Version: 09/19/2023
Date Data Arrived at EDR: 10/03/2023
Date Made Active in Reports: 10/19/2023
Number of Days to Update: 16

Source: EPA
Telephone: 202-564-6023
Last EDR Contact: 02/01/2024
Next Scheduled EDR Contact: 05/13/2024
Data Release Frequency: Quarterly

PADS: PCB Activity Database System

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 03/20/2023
Date Data Arrived at EDR: 04/04/2023
Date Made Active in Reports: 06/09/2023
Number of Days to Update: 66

Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 01/05/2024
Next Scheduled EDR Contact: 04/15/2024
Data Release Frequency: Annually

ICIS: Integrated Compliance Information System

The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 11/18/2016
Date Data Arrived at EDR: 11/23/2016
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 79

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/26/2023
Next Scheduled EDR Contact: 04/15/2024
Data Release Frequency: Quarterly

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Telephone: 202-566-1667
Last EDR Contact: 08/18/2017
Next Scheduled EDR Contact: 12/04/2017
Data Release Frequency: No Update Planned

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA
Telephone: 202-566-1667
Last EDR Contact: 08/18/2017
Next Scheduled EDR Contact: 12/04/2017
Data Release Frequency: No Update Planned

MLTS: Material Licensing Tracking System

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 07/20/2023
Date Data Arrived at EDR: 09/01/2023
Date Made Active in Reports: 09/20/2023
Number of Days to Update: 19

Source: Nuclear Regulatory Commission
Telephone: 301-415-0717
Last EDR Contact: 01/11/2024
Next Scheduled EDR Contact: 04/29/2024
Data Release Frequency: Quarterly

COAL ASH DOE: Steam-Electric Plant Operation Data

A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2021
Date Data Arrived at EDR: 04/14/2023
Date Made Active in Reports: 07/10/2023
Number of Days to Update: 87

Source: Department of Energy
Telephone: 202-586-8719
Last EDR Contact: 11/27/2023
Next Scheduled EDR Contact: 03/11/2024
Data Release Frequency: Varies

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List

A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 01/12/2017
Date Data Arrived at EDR: 03/05/2019
Date Made Active in Reports: 11/11/2019
Number of Days to Update: 251

Source: Environmental Protection Agency
Telephone: N/A
Last EDR Contact: 11/27/2023
Next Scheduled EDR Contact: 03/11/2024
Data Release Frequency: Varies

PCB TRANSFORMER: PCB Transformer Registration Database
The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 09/13/2019
Date Data Arrived at EDR: 11/06/2019
Date Made Active in Reports: 02/10/2020
Number of Days to Update: 96
Source: Environmental Protection Agency
Telephone: 202-566-0517
Last EDR Contact: 02/02/2024
Next Scheduled EDR Contact: 05/13/2024
Data Release Frequency: Varies

RADINFO: Radiation Information Database
The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 07/01/2019
Date Data Arrived at EDR: 07/01/2019
Date Made Active in Reports: 09/23/2019
Number of Days to Update: 84
Source: Environmental Protection Agency
Telephone: 202-343-9775
Last EDR Contact: 12/19/2023
Next Scheduled EDR Contact: 04/08/2024
Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing
A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40
Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2007
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing
A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40
Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2008
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

DOT OPS: Incident and Accident Data
Department of Transporation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 01/02/2020
Date Data Arrived at EDR: 01/28/2020
Date Made Active in Reports: 04/17/2020
Number of Days to Update: 80
Source: Department of Transporation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 01/05/2024
Next Scheduled EDR Contact: 05/06/2024
Data Release Frequency: Quarterly

CONSENT: Superfund (CERCLA) Consent Decrees
Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 12/31/2023
Date Data Arrived at EDR: 01/11/2024
Date Made Active in Reports: 01/16/2024
Number of Days to Update: 5

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 01/03/2024
Next Scheduled EDR Contact: 04/15/2024
Data Release Frequency: Varies

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2021
Date Data Arrived at EDR: 03/09/2023
Date Made Active in Reports: 03/20/2023
Number of Days to Update: 11

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 12/06/2023
Next Scheduled EDR Contact: 04/01/2024
Data Release Frequency: Biennially

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 07/14/2015
Date Made Active in Reports: 01/10/2017
Number of Days to Update: 546

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 01/02/2024
Next Scheduled EDR Contact: 04/15/2024
Data Release Frequency: Semi-Annually

FUSRAP: Formerly Utilized Sites Remedial Action Program

DOE established the Formerly Utilized Sites Remedial Action Program (FUSRAP) in 1974 to remediate sites where radioactive contamination remained from Manhattan Project and early U.S. Atomic Energy Commission (AEC) operations.

Date of Government Version: 03/03/2023
Date Data Arrived at EDR: 03/03/2023
Date Made Active in Reports: 06/09/2023
Number of Days to Update: 98

Source: Department of Energy
Telephone: 202-586-3559
Last EDR Contact: 01/29/2024
Next Scheduled EDR Contact: 05/13/2024
Data Release Frequency: Varies

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 08/30/2019
Date Data Arrived at EDR: 11/15/2019
Date Made Active in Reports: 01/28/2020
Number of Days to Update: 74

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 11/09/2023
Next Scheduled EDR Contact: 02/26/2024
Data Release Frequency: Varies

LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 12/26/2024
Date Data Arrived at EDR: 01/02/2024
Date Made Active in Reports: 01/24/2024
Number of Days to Update: 22

Source: Environmental Protection Agency
Telephone: 703-603-8787
Last EDR Contact: 02/01/2024
Next Scheduled EDR Contact: 04/08/2024
Data Release Frequency: Varies

LEAD SMELTER 2: Lead Smelter Sites

A list of several hundred sites in the U.S. where secondary lead smelting was done from 1931and 1964. These sites may pose a threat to public health through ingestion or inhalation of contaminated soil or dust

Date of Government Version: 04/05/2001
Date Data Arrived at EDR: 10/27/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 36

Source: American Journal of Public Health
Telephone: 703-305-6451
Last EDR Contact: 12/02/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)

The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Annually

US AIRS MINOR: Air Facility System Data

A listing of minor source facilities.

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Annually

MINES VIOLATIONS: MSHA Violation Assessment Data

Mines violation and assessment information. Department of Labor, Mine Safety & Health Administration.

Date of Government Version: 01/02/2024
Date Data Arrived at EDR: 01/03/2024
Date Made Active in Reports: 01/04/2024
Number of Days to Update: 1

Source: DOL, Mine Safety & Health Admi
Telephone: 202-693-9424
Last EDR Contact: 01/03/2024
Next Scheduled EDR Contact: 05/20/2024
Data Release Frequency: Quarterly

US MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 08/01/2023
Date Data Arrived at EDR: 08/22/2023
Date Made Active in Reports: 11/07/2023
Number of Days to Update: 77

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 11/17/2023
Next Scheduled EDR Contact: 03/04/2024
Data Release Frequency: Semi-Annually

US MINES 2: Ferrous and Nonferrous Metal Mines Database Listing

This map layer includes ferrous (ferrous metal mines are facilities that extract ferrous metals, such as iron ore or molybdenum) and nonferrous (Nonferrous metal mines are facilities that extract nonferrous metals, such as gold, silver, copper, zinc, and lead) metal mines in the United States.

Date of Government Version: 01/07/2022
Date Data Arrived at EDR: 02/24/2023
Date Made Active in Reports: 05/17/2023
Number of Days to Update: 82

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 11/20/2023
Next Scheduled EDR Contact: 03/04/2024
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

US MINES 3: Active Mines & Mineral Plants Database Listing

Active Mines and Mineral Processing Plant operations for commodities monitored by the Minerals Information Team of the USGS.

Date of Government Version: 04/14/2011
Date Data Arrived at EDR: 06/08/2011
Date Made Active in Reports: 09/13/2011
Number of Days to Update: 97

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 11/20/2023
Next Scheduled EDR Contact: 03/04/2024
Data Release Frequency: Varies

ABANDONED MINES: Abandoned Mines

An inventory of land and water impacted by past mining (primarily coal mining) is maintained by OSMRE to provide information needed to implement the Surface Mining Control and Reclamation Act of 1977 (SMCRA). The inventory contains information on the location, type, and extent of AML impacts, as well as, information on the cost associated with the reclamation of those problems. The inventory is based upon field surveys by State, Tribal, and OSMRE program officials. It is dynamic to the extent that it is modified as new problems are identified and existing problems are reclaimed.

Date of Government Version: 11/28/2023
Date Data Arrived at EDR: 11/29/2023
Date Made Active in Reports: 12/11/2023
Number of Days to Update: 12

Source: Department of Interior
Telephone: 202-208-2609
Last EDR Contact: 11/28/2023
Next Scheduled EDR Contact: 03/18/2024
Data Release Frequency: Quarterly

MINES MRDS: Mineral Resources Data System

Mineral Resources Data System

Date of Government Version: 08/23/2022
Date Data Arrived at EDR: 11/22/2022
Date Made Active in Reports: 02/28/2023
Number of Days to Update: 98

Source: USGS
Telephone: 703-648-6533
Last EDR Contact: 11/20/2023
Next Scheduled EDR Contact: 03/04/2024
Data Release Frequency: Varies

FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 11/03/2023
Date Data Arrived at EDR: 11/08/2023
Date Made Active in Reports: 11/20/2023
Number of Days to Update: 12

Source: EPA
Telephone: (415) 947-8000
Last EDR Contact: 11/08/2023
Next Scheduled EDR Contact: 03/11/2024
Data Release Frequency: Quarterly

ECHO: Enforcement & Compliance History Information

ECHO provides integrated compliance and enforcement information for about 800,000 regulated facilities nationwide.

Date of Government Version: 09/23/2023
Date Data Arrived at EDR: 10/03/2023
Date Made Active in Reports: 01/04/2024
Number of Days to Update: 93

Source: Environmental Protection Agency
Telephone: 202-564-2280
Last EDR Contact: 12/28/2023
Next Scheduled EDR Contact: 04/15/2024
Data Release Frequency: Quarterly

UXO: Unexploded Ordnance Sites

A listing of unexploded ordnance site locations

Date of Government Version: 09/06/2023
Date Data Arrived at EDR: 09/13/2023
Date Made Active in Reports: 12/11/2023
Number of Days to Update: 89

Source: Department of Defense
Telephone: 703-704-1564
Last EDR Contact: 01/05/2024
Next Scheduled EDR Contact: 04/22/2024
Data Release Frequency: Varies

DOCKET HWC: Hazardous Waste Compliance Docket Listing

A complete list of the Federal Agency Hazardous Waste Compliance Docket Facilities.

Date of Government Version: 05/06/2021
Date Data Arrived at EDR: 05/21/2021
Date Made Active in Reports: 08/11/2021
Number of Days to Update: 82

Source: Environmental Protection Agency
Telephone: 202-564-0527
Last EDR Contact: 11/15/2023
Next Scheduled EDR Contact: 03/04/2024
Data Release Frequency: Varies

FUELS PROGRAM: EPA Fuels Program Registered Listing

This listing includes facilities that are registered under the Part 80 (Code of Federal Regulations) EPA Fuels Programs. All companies now are required to submit new and updated registrations.

Date of Government Version: 11/10/2023
Date Data Arrived at EDR: 11/10/2023
Date Made Active in Reports: 02/07/2024
Number of Days to Update: 89

Source: EPA
Telephone: 800-385-6164
Last EDR Contact: 11/10/2023
Next Scheduled EDR Contact: 02/26/2024
Data Release Frequency: Quarterly

PFAS NPL: Superfund Sites with PFAS Detections Information

EPA's Office of Land and Emergency Management and EPA Regional Offices maintain data describing what is known about site investigations, contamination, and remedial actions under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) where PFAS is present in the environment.

Date of Government Version: 09/23/2023
Date Data Arrived at EDR: 10/03/2023
Date Made Active in Reports: 12/21/2023
Number of Days to Update: 79

Source: Environmental Protection Agency
Telephone: 703-603-8895
Last EDR Contact: 12/28/2023
Next Scheduled EDR Contact: 04/15/2024
Data Release Frequency: Varies

PFAS FEDERAL SITES: Federal Sites PFAS Information

Several federal entities, such as the federal Superfund program, Department of Defense, National Aeronautics and Space Administration, Department of Transportation, and Department of Energy provided information for sites with known or suspected detections at federal facilities.

Date of Government Version: 09/23/2023
Date Data Arrived at EDR: 10/03/2023
Date Made Active in Reports: 12/21/2023
Number of Days to Update: 79

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 12/28/2023
Next Scheduled EDR Contact: 04/15/2024
Data Release Frequency: Varies

PFAS TSCA: PFAS Manufacture and Imports Information

EPA issued the Chemical Data Reporting (CDR) Rule under the Toxic Substances Control Act (TSCA) and requires chemical manufacturers and facilities that manufacture or import chemical substances to report data to EPA. EPA publishes non-confidential business information (non-CBI) and includes descriptive information about each site, corporate parent, production volume, other manufacturing information, and processing and use information.

Date of Government Version: 12/28/2023
Date Data Arrived at EDR: 12/28/2023
Date Made Active in Reports: 01/04/2024
Number of Days to Update: 7

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 12/28/2023
Next Scheduled EDR Contact: 04/15/2024
Data Release Frequency: Varies

PFAS TRIS: List of PFAS Added to the TRI

Section 7321 of the National Defense Authorization Act for Fiscal Year 2020 (NDAA) immediately added certain per- and polyfluoroalkyl substances (PFAS) to the list of chemicals covered by the Toxics Release Inventory (TRI) under Section 313 of the Emergency Planning and Community Right-to-Know Act (EPCRA) and provided a framework for additional PFAS to be added to TRI on an annual basis.

Date of Government Version: 12/28/2023
Date Data Arrived at EDR: 12/28/2023
Date Made Active in Reports: 01/04/2024
Number of Days to Update: 7

Source: Environmental Protection Agency
Telephone: 202-566-0250
Last EDR Contact: 12/28/2023
Next Scheduled EDR Contact: 04/15/2024
Data Release Frequency: Varies

PFAS RCRA MANIFEST: PFAS Transfers Identified In the RCRA Database Listing

To work around the lack of PFAS waste codes in the RCRA database, EPA developed the PFAS Transfers dataset by mining e-Manifest records containing at least one of these common PFAS keywords: PFAS, PFOA, PFOS, PERFL, AFFF, GENX, GEN-X (plus the VT waste codes). These keywords were searched for in the following text fields: Manifest handling instructions (MANIFEST_HANDLING_INSTR), Non-hazardous waste description (NON_HAZ_WASTE_DESCRIPTION), DOT printed information (DOT_PRINTED_INFORMATION), Waste line handling instructions (WASTE_LINE_HANDLING_INSTR), Waste residue comments (WASTE_RESIDUE_COMMENTS).

Date of Government Version: 12/28/2023
Date Data Arrived at EDR: 12/28/2023
Date Made Active in Reports: 01/04/2024
Number of Days to Update: 7

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 12/28/2023
Next Scheduled EDR Contact: 04/15/2024
Data Release Frequency: Varies

PFAS ATSDR: PFAS Contamination Site Location Listing

PFAS contamination site locations from the Department of Health & Human Services, Center for Disease Control & Prevention. ATSDR is involved at a number of PFAS-related sites, either directly or through assisting state and federal partners. As of now, most sites are related to drinking water contamination connected with PFAS production facilities or fire training areas where aqueous film-forming firefighting foam (AFFF) was regularly used.

Date of Government Version: 06/24/2020
Date Data Arrived at EDR: 03/17/2021
Date Made Active in Reports: 11/08/2022
Number of Days to Update: 601

Source: Department of Health & Human Services
Telephone: 202-741-5770
Last EDR Contact: 01/22/2024
Next Scheduled EDR Contact: 05/06/2024
Data Release Frequency: Varies

PFAS WQP: Ambient Environmental Sampling for PFAS

The Water Quality Portal (WQP) is a part of a modernized repository storing ambient sampling data for all environmental media and tissue samples. A wide range of federal, state, tribal and local governments, academic and non-governmental organizations and individuals submit project details and sampling results to this public repository. The information is commonly used for research and assessments of environmental quality.

Date of Government Version: 09/23/2023
Date Data Arrived at EDR: 10/03/2023
Date Made Active in Reports: 10/10/2023
Number of Days to Update: 7

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 12/28/2023
Next Scheduled EDR Contact: 04/15/2024
Data Release Frequency: Varies

PFAS NPDES: Clean Water Act Discharge Monitoring Information

Any discharger of pollutants to waters of the United States from a point source must have a National Pollutant Discharge Elimination System (NPDES) permit. The process for obtaining limits involves the regulated entity (permittee) disclosing releases in a NPDES permit application and the permitting authority (typically the state but sometimes EPA) deciding whether to require monitoring or monitoring with limits. Caveats and Limitations: Less than half of states have required PFAS monitoring for at least one of their permittees and fewer states have established PFAS effluent limits for permittees. New rulemakings have been initiated that may increase the number of facilities monitoring for PFAS in the future.

Date of Government Version: 09/23/2023
Date Data Arrived at EDR: 10/03/2023
Date Made Active in Reports: 01/04/2024
Number of Days to Update: 93

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 12/28/2023
Next Scheduled EDR Contact: 04/15/2024
Data Release Frequency: Varies

PFAS ECHO: Facilities in Industries that May Be Handling PFAS Listing

Regulators and the public have expressed interest in knowing which regulated entities may be using PFAS. EPA has developed a dataset from various sources that show which industries may be handling PFAS. Approximately 120,000 facilities subject to federal environmental programs have operated or currently operate in industry sectors with processes that may involve handling and/or release of PFAS.

Date of Government Version: 09/23/2023
Date Data Arrived at EDR: 10/03/2023
Date Made Active in Reports: 12/21/2023
Number of Days to Update: 79

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 12/28/2023
Next Scheduled EDR Contact: 04/15/2024
Data Release Frequency: Varies

PFAS ECHO FIRE TRAINING: Facilities in Industries that May Be Handling PFAS Listing

A list of fire training sites was added to the Industry Sectors dataset using a keyword search on the permitted facilitys name to identify sites where fire-fighting foam may have been used in training exercises. Additionally, you may view an example spreadsheet of the subset of fire training facility data, as well as the keywords used in selecting or deselecting a facility for the subset. as well as the keywords used in selecting or deselecting a facility for the subset. These keywords were tested to maximize accuracy in selecting facilities that may use fire-fighting foam in training exercises, however, due to the lack of a required reporting field in the data systems for designating fire training sites, this methodology may not identify all fire training sites or may potentially misidentify them.

Date of Government Version: 09/23/2023
Date Data Arrived at EDR: 10/03/2023
Date Made Active in Reports: 12/21/2023
Number of Days to Update: 79

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 12/28/2023
Next Scheduled EDR Contact: 04/15/2024
Data Release Frequency: Varies

PFAS PART 139 AIRPORT: All Certified Part 139 Airports PFAS Information Listing

Since July 1, 2006, all certified part 139 airports are required to have fire-fighting foam onsite that meet military specifications (MIL-F-24385) (14 CFR 139.317). To date, these military specification fire-fighting foams are fluorinated and have been historically used for training and extinguishing. The 2018 FAA Reauthorization Act has a provision stating that no later than October 2021, FAA shall not require the use of fluorinated AFFF. This provision does not prohibit the use of fluorinated AFFF at Part 139 civilian airports; it only prohibits FAA from mandating its use. The Federal Aviation Administration?s document AC 150/5210-6D - Aircraft Fire Extinguishing Agents provides guidance on Aircraft Fire Extinguishing Agents, which includes Aqueous Film Forming Foam (AFFF).

Date of Government Version: 09/23/2023
Date Data Arrived at EDR: 10/03/2023
Date Made Active in Reports: 12/21/2023
Number of Days to Update: 79

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 12/28/2023
Next Scheduled EDR Contact: 04/15/2024
Data Release Frequency: Varies

AQUEOUS FOAM NRC: Aqueous Foam Related Incidents Listing

The National Response Center (NRC) serves as an emergency call center that fields initial reports for pollution and railroad incidents and forwards that information to appropriate federal/state agencies for response. The spreadsheets posted to the NRC website contain initial incident data that has not been validated or investigated by a federal/state response agency. Response center calls from 1990 to the most recent complete calendar year where there was indication of Aqueous Film Forming Foam (AFFF) usage are included in this dataset. NRC calls may reference AFFF usage in the ?Material Involved? or ?Incident Description? fields.

Date of Government Version: 09/23/2023
Date Data Arrived at EDR: 10/03/2023
Date Made Active in Reports: 12/21/2023
Number of Days to Update: 79

Source: Environmental Protection Agency
Telephone: 202-267-2675
Last EDR Contact: 12/28/2023
Next Scheduled EDR Contact: 04/15/2024
Data Release Frequency: Varies

PCS: Permit Compliance System

PCS is a computerized management information system that contains data on National Pollutant Discharge Elimination System (NPDES) permit holding facilities. PCS tracks the permit, compliance, and enforcement status of NPDES facilities.

Date of Government Version: 12/16/2016
Date Data Arrived at EDR: 01/06/2017
Date Made Active in Reports: 02/07/2024
Number of Days to Update: 2588

Source: EPA, Office of Water
Telephone: 202-564-2496
Last EDR Contact: 12/27/2023
Next Scheduled EDR Contact: 04/15/2024
Data Release Frequency: No Update Planned

PCS ENF: Enforcement data

No description is available for this data

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 02/05/2015
Date Made Active in Reports: 03/06/2015
Number of Days to Update: 29

Source: EPA
Telephone: 202-564-2497
Last EDR Contact: 12/27/2023
Next Scheduled EDR Contact: 04/15/2024
Data Release Frequency: Varies

BIOSOLIDS: ICIS-NPDES Biosolids Facility Data

The data reflects compliance information about facilities in the biosolids program.

Date of Government Version: 12/31/2023
Date Data Arrived at EDR: 01/03/2024
Date Made Active in Reports: 01/16/2024
Number of Days to Update: 13

Source: Environmental Protection Agency
Telephone: 202-564-4700
Last EDR Contact: 01/03/2024
Next Scheduled EDR Contact: 04/29/2024
Data Release Frequency: Varies

PFAS: PFAS Contamination Site Location Listing

A listing of PFAS contaminated sites included in the GeoTracker database.

Date of Government Version: 09/05/2023
Date Data Arrived at EDR: 09/06/2023
Date Made Active in Reports: 11/27/2023
Number of Days to Update: 82

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 11/30/2023
Next Scheduled EDR Contact: 03/18/2024
Data Release Frequency: Varies

AQUEOUS FOAM: Former Fire Training Facility Assessments Listing

Airports shown on this list are those believed to use Aqueous Film Forming Foam (AFFF), and certified by the Federal Aviation Administration (FAA) under Title 14, Code of Federal Regulations (CFR), Part 139 (14 CFR Part 139). This list was created by SWRCB using information available from the FAA. Location points shown are from the latitude and longitude listed on the FAA airport master record.

Date of Government Version: 09/05/2023
Date Data Arrived at EDR: 09/06/2023
Date Made Active in Reports: 11/28/2023
Number of Days to Update: 83

Source: State Water Resources Control Board
Telephone: 916-341-5455
Last EDR Contact: 11/30/2023
Next Scheduled EDR Contact: 03/18/2024
Data Release Frequency: Varies

CA BOND EXP. PLAN: Bond Expenditure Plan

Department of Health Services developed a site-specific expenditure plan as the basis for an appropriation of Hazardous Substance Cleanup Bond Act funds. It is not updated.

Date of Government Version: 01/01/1989
Date Data Arrived at EDR: 07/27/1994
Date Made Active in Reports: 08/02/1994
Number of Days to Update: 6

Source: Department of Health Services
Telephone: 916-255-2118
Last EDR Contact: 05/31/1994
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

CHROME PLATING: Chrome Plating Facilities Listing

This listing represents chrome plating facilities the California State Water Resources Control Board staff identified as possibly being a source of Per- and polyfluoroalkyl substance (PFAS) contamination. Sites and locations were identified by staff with the Division of Water Quality in the California State Water Board. Data was collected from the CA Air Resources Board 2013 and 2018 - Cr VI emission survey, CA Emission Inventory, CA HAZ Waste discharge database and by reviewing storm water permits. Former chrome plating sites are also included that are open site investigation or remediation cases with the Regional Water Quality Control Boards and the Department of Toxic Substances Control.

Date of Government Version: 09/05/2023
Date Data Arrived at EDR: 09/06/2023
Date Made Active in Reports: 11/27/2023
Number of Days to Update: 82

Source: State Water Resources Control Board
Telephone: 916-341-5455
Last EDR Contact: 11/30/2023
Next Scheduled EDR Contact: 03/18/2024
Data Release Frequency: Varies

CORTESE: "Cortese" Hazardous Waste & Substances Sites List

The sites for the list are designated by the State Water Resource Control Board (LUST), the Integrated Waste Board (SWF/LS), and the Department of Toxic Substances Control (Cal-Sites).

Date of Government Version: 09/19/2023
Date Data Arrived at EDR: 09/20/2023
Date Made Active in Reports: 12/08/2023
Number of Days to Update: 79

Source: CAL EPA/Office of Emergency Information
Telephone: 916-323-3400
Last EDR Contact: 12/13/2023
Next Scheduled EDR Contact: 04/01/2024
Data Release Frequency: Quarterly

CUPA LIVERMORE-PLEASANTON: CUPA Facility Listing

list of facilities associated with the various CUPA programs in Livermore-Pleasanton

Date of Government Version: 03/31/2023
Date Data Arrived at EDR: 05/08/2023
Date Made Active in Reports: 07/31/2023
Number of Days to Update: 84

Source: Livermore-Pleasanton Fire Department
Telephone: 925-454-2361
Last EDR Contact: 11/09/2023
Next Scheduled EDR Contact: 02/19/2024
Data Release Frequency: Varies

DRYCLEAN YOLO-SOLANO DIST: Yolo-Solano Air Quality Management District Drycleaner Facility Listing

A listing of drycleaner facility locations, for the Yolo-Solano Air Quality Management District.

Date of Government Version: 04/25/2023
Date Data Arrived at EDR: 04/27/2023
Date Made Active in Reports: 07/14/2023
Number of Days to Update: 78

Source: Yolo-Solano Air Quality Management District
Telephone: 530-757-3650
Last EDR Contact: 01/03/2024
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN PLACER CO DIST: Placer County Air Quality Management District Drycleaner Facility Listing

A listing of drycleaner facility locations, for the Placer County Air Quality Management District.

Date of Government Version: 05/15/2023
Date Data Arrived at EDR: 05/17/2023
Date Made Active in Reports: 08/14/2023
Number of Days to Update: 89

Source: Placer County Air Quality Management District
Telephone: 530-745-2335
Last EDR Contact: 01/03/2024
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN SAN LUIS OB CO DIST: San Luis Obispo County Air Pollution Control District Drycleaner Facility Listing

A listing of drycleaner facility locations, for the San Luis Obispo County Air Pollution Control District.

Date of Government Version: 07/26/2023
Date Data Arrived at EDR: 07/27/2023
Date Made Active in Reports: 10/13/2023
Number of Days to Update: 78

Source: San Luis Obispo County Air Pollution Control District
Telephone: 805-781-5756
Last EDR Contact: 01/03/2024
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN BAY AREA DIST: Bay Area Air Quality Management District Drycleaner Facility Listing
Bay Area Air Quality Management District Drycleaner Facility Listing.

Date of Government Version: 02/20/2019
Date Data Arrived at EDR: 05/30/2019
Date Made Active in Reports: 05/01/2023
Number of Days to Update: 1432
Source: Bay Area Air Quality Management District
Telephone: 415-516-1916
Last EDR Contact: 01/03/2024
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN CALAVERAS CO DIST: Calaveras County Environmental Management Agency Drycleaner Facility Listing
A listing of drycleaner facility locations, for the Calaveras County Environmental Management Agency.

Date of Government Version: 06/17/2019
Date Data Arrived at EDR: 06/19/2019
Date Made Active in Reports: 05/01/2023
Number of Days to Update: 1412
Source: Calaveras County Environmental Management Agency
Telephone: 209-754-6399
Last EDR Contact: 01/03/2024
Next Scheduled EDR Contact: 09/16/2019
Data Release Frequency: Varies

DRYCLEAN GRANT: Grant Recipients List
Assembly Bill 998 (AB 998) established the Non-Toxic Dry Cleaning Incentive Program to provide financial assistance to the dry cleaning industry to switch from systems using perchloroethylene (Perc), an identified toxic air contaminant and potential human carcinogen, to non-toxic and non-smog forming alternatives.

Date of Government Version: 12/31/2020
Date Data Arrived at EDR: 02/04/2021
Date Made Active in Reports: 05/01/2023
Number of Days to Update: 816
Source: California Air Resources Board
Telephone: 916-323-0006
Last EDR Contact: 01/26/2024
Next Scheduled EDR Contact: 05/06/2024
Data Release Frequency: Varies

DRYCLEAN LAKE CO DIST: Lake County Air Quality Management District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the Lake County Air Quality Management District,

Date of Government Version: 04/29/2019
Date Data Arrived at EDR: 05/07/2019
Date Made Active in Reports: 05/01/2023
Number of Days to Update: 1455
Source: Lake County Air Quality Management District
Telephone: 707-263-7000
Last EDR Contact: 01/03/2024
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN NO COAST UNIFIED DIST: North Coast Unified Air Quality Management District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the North Coast Unified Air Quality Management District.

Date of Government Version: 11/30/2016
Date Data Arrived at EDR: 04/19/2019
Date Made Active in Reports: 05/01/2023
Number of Days to Update: 1473
Source: North Coast Unified Air Quality Management District
Telephone: 707-443-3093
Last EDR Contact: 01/03/2024
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN NO SIERRA DIST: Northern Sierra Air Quality Management District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the Northern Sierra Air Quality Management District,

Date of Government Version: 05/07/2019
Date Data Arrived at EDR: 05/07/2019
Date Made Active in Reports: 05/01/2023
Number of Days to Update: 1455
Source: Northern Sierra Air Quality Management District
Telephone: 530-274-9350
Last EDR Contact: 01/03/2024
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN NO SONOMA CO DIST: Norther Sonoma County County Air Pollution Control District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the Northern Sonoma County Air Pollution Control District.,

Date of Government Version: 04/17/2019
Date Data Arrived at EDR: 04/17/2019
Date Made Active in Reports: 05/01/2023
Number of Days to Update: 1475
Source: Santa Barbara County Air Pollution Control District
Telephone: 707-433-5911
Last EDR Contact: 01/03/2024
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN SANTA BARB CO DIST: Santa Barbara County Air Pollution Control District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the Santa Barbara County Air Pollution Control District.

Date of Government Version: 02/19/2019
Date Data Arrived at EDR: 04/17/2019
Date Made Active in Reports: 05/01/2023
Number of Days to Update: 1475
Source: Santa Barbara County Air Pollution Control District
Telephone: 805-961-8867
Last EDR Contact: 01/03/2024
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN TEHAMA CO DIST: Tehama County Air Pollution Control District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the Tehama County Air Pollution Control District.

Date of Government Version: 04/24/2019
Date Data Arrived at EDR: 04/24/2019
Date Made Active in Reports: 05/01/2023
Number of Days to Update: 1468
Source: Tehama County Air Pollution Control District
Telephone: 530-527-3717
Last EDR Contact: 01/03/2024
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN VENTURA CO DIST: Drycleaner Facility Listing
A listing of drycleaner facility locations, for the Ventura County Air Pollution Control District.

Date of Government Version: 04/16/2019
Date Data Arrived at EDR: 04/17/2019
Date Made Active in Reports: 05/01/2023
Number of Days to Update: 1475
Source: Ventura County Air Pollution Control District
Telephone: 805-645-1421
Last EDR Contact: 01/03/2024
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN SHASTA CO DIST: Shasta County Air Quality Management District District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the Shasta County Air Quality Management District.

Date of Government Version: 04/26/2023
Date Data Arrived at EDR: 04/27/2023
Date Made Active in Reports: 07/14/2023
Number of Days to Update: 78
Source: Shasta County Air Quality Management District
Telephone: 530-225-5674
Last EDR Contact: 01/03/2024
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN MONTEREY BAY DIST: Monterey Bay Air Quality Management District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the Monterey Bay Air Quality Management District.

Date of Government Version: 04/25/2023
Date Data Arrived at EDR: 04/26/2023
Date Made Active in Reports: 07/14/2023
Number of Days to Update: 79
Source: Monterey Bay Air Quality Management District
Telephone: 831-647-9411
Last EDR Contact: 01/03/2024
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN MOJAVE DESERT DIST: Mojave Desert Air Quality Management District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the Mojave Desert Air Quality Management District.

Date of Government Version: 04/26/2023
Date Data Arrived at EDR: 04/27/2023
Date Made Active in Reports: 07/14/2023
Number of Days to Update: 78
Source: Mojave Desert Air Quality Management District
Telephone: 760-245-1661
Last EDR Contact: 01/03/2024
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN MENDO CO DIST: Mendocino County Air Quality Management District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the Mendocino County Air Quality Management District.

Date of Government Version: 04/27/2023
Date Data Arrived at EDR: 04/28/2023
Date Made Active in Reports: 07/14/2023
Number of Days to Update: 77
Source: Mendocino County Air Quality Management District
Telephone: 707-463-4354
Last EDR Contact: 01/03/2024
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN IMPERIAL CO DIST: Imperial County Air Pollution Control District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the Imperial County Air Pollution Control District

Date of Government Version: 04/25/2023
Date Data Arrived at EDR: 04/26/2023
Date Made Active in Reports: 07/14/2023
Number of Days to Update: 79

Source: Imperial County Air Pollution Control District
Telephone: 442-265-1800
Last EDR Contact: 01/03/2024
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN EAST KERN DIST: Eastern Kern Air Pollution Control District District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the Eastern Kern Air Pollution Control District.

Date of Government Version: 01/12/2023
Date Data Arrived at EDR: 04/26/2023
Date Made Active in Reports: 07/14/2023
Number of Days to Update: 79

Source: Eastern Kern Air Pollution Control District
Telephone: 661-862-9684
Last EDR Contact: 01/03/2024
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN SACRAMENTO METO DIST: Sacramento Metropolitan Air Quality Management DistrictDrycleaner Facility Listing
A listing of drycleaner facility locations, for the Sacramento Metropolitan Air Quality Management District.

Date of Government Version: 08/15/2023
Date Data Arrived at EDR: 08/17/2023
Date Made Active in Reports: 10/31/2023
Number of Days to Update: 75

Source: Sacramento Metropolitan Air Quality Management District
Telephone: 916-874-3958
Last EDR Contact: 01/03/2024
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN SAN JOAQ VAL DIST: San Joaquin Valley Air Pollution Control District District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the San Joaquin Valley Air Pollution Control District.

Date of Government Version: 05/24/2023
Date Data Arrived at EDR: 05/30/2023
Date Made Active in Reports: 08/21/2023
Number of Days to Update: 83

Source: San Joaquin Valley Air Pollution Control District
Telephone: 559-230-6001
Last EDR Contact: 01/03/2024
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN AVAQMD: Antelope Valley Air Quality Management District Drycleaner Listing
A listing of dry cleaners in the Antelope Valley Air Quality Management District.

Date of Government Version: 08/22/2023
Date Data Arrived at EDR: 08/24/2023
Date Made Active in Reports: 11/07/2023
Number of Days to Update: 75

Source: Antelope Valley Air Quality Management District
Telephone: 661-723-8070
Last EDR Contact: 11/21/2023
Next Scheduled EDR Contact: 03/11/2024
Data Release Frequency: Varies

DRYCLEAN SOUTH COAST: South Coast Air Quality Management District Drycleaner Listing
A listing of dry cleaners in the South Coast Air Quality Management District

Date of Government Version: 08/18/2023
Date Data Arrived at EDR: 08/18/2023
Date Made Active in Reports: 11/01/2023
Number of Days to Update: 75

Source: South Coast Air Quality Management District
Telephone: 909-396-3211
Last EDR Contact: 11/13/2023
Next Scheduled EDR Contact: 03/04/2024
Data Release Frequency: Varies

DRYCLEAN FEATHER RIVER DIST: Feather River Air Quality Management District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the Feather River Air Quality Management District.

Date of Government Version: 03/08/2023
Date Data Arrived at EDR: 03/09/2023
Date Made Active in Reports: 06/05/2023
Number of Days to Update: 88

Source: Feather River Air Quality Management District
Telephone: 530-634-7659
Last EDR Contact: 01/03/2024
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN BUTTE CO DIST: Butte County Air Quality Management DistrictDrycleaner Facility Listing
Butte County Air Quality Management DistrictDrycleaner Facility Listing.

Date of Government Version: 04/25/2023
Date Data Arrived at EDR: 10/18/2023
Date Made Active in Reports: 01/16/2024
Number of Days to Update: 90

Source: Butte County Air Quality Management District
Telephone: 530-332-9400
Last EDR Contact: 01/03/2024
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN SAN DIEGO CO DIST: San Diego County Air Pollution Control District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the San Diego County Air Pollution Control District.

Date of Government Version: 08/08/2023
Date Data Arrived at EDR: 08/09/2023
Date Made Active in Reports: 10/26/2023
Number of Days to Update: 78

Source: San Diego County Air Pollution Control District
Telephone: 858-586-2616
Last EDR Contact: 08/08/2023
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN GLENN CO DIST: Glenn County Air Pollution Control District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the Glenn County Air Pollution Control District.

Date of Government Version: 05/02/2023
Date Data Arrived at EDR: 05/03/2023
Date Made Active in Reports: 07/25/2023
Number of Days to Update: 83

Source: Glenn County Air Pollution Control District
Telephone: 530-934-6500
Last EDR Contact: 01/03/2024
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEANERS: Cleaner Facilities
A list of drycleaner related facilities that have EPA ID numbers. These are facilities with certain SIC codes: power laundries, family and commercial; garment pressing and cleaner's agents; linen supply; coin-operated laundries and cleaning; drycleaning plants, except rugs; carpet and upholster cleaning; industrial launderers; laundry and garment services.

Date of Government Version: 08/31/2023
Date Data Arrived at EDR: 09/08/2023
Date Made Active in Reports: 11/27/2023
Number of Days to Update: 80

Source: Department of Toxic Substance Control
Telephone: 916-327-4498
Last EDR Contact: 12/18/2023
Next Scheduled EDR Contact: 03/11/2024
Data Release Frequency: Annually

DRYCLEAN AMADOR: Amador Air District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the Amador Air Quality Management District

Date of Government Version: 04/26/2023
Date Data Arrived at EDR: 04/27/2023
Date Made Active in Reports: 07/13/2023
Number of Days to Update: 77

Source: Amador Air Quality Management District
Telephone: 209-257-0112
Last EDR Contact: 01/03/2024
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

EMI: Emissions Inventory Data
Toxics and criteria pollutant emissions data collected by the ARB and local air pollution agencies.

Date of Government Version: 12/31/2021
Date Data Arrived at EDR: 06/09/2023
Date Made Active in Reports: 08/30/2023
Number of Days to Update: 82

Source: California Air Resources Board
Telephone: 916-322-2990
Last EDR Contact: 12/14/2023
Next Scheduled EDR Contact: 03/25/2024
Data Release Frequency: Varies

ENF: Enforcement Action Listing
A listing of Water Board Enforcement Actions. Formal is everything except Oral/Verbal Communication, Notice of Violation, Expedited Payment Letter, and Staff Enforcement Letter.

Date of Government Version: 10/16/2023
Date Data Arrived at EDR: 10/17/2023
Date Made Active in Reports: 01/09/2024
Number of Days to Update: 84

Source: State Water Resoruces Control Board
Telephone: 916-445-9379
Last EDR Contact: 01/16/2024
Next Scheduled EDR Contact: 04/29/2024
Data Release Frequency: Varies

Financial Assurance 1: Financial Assurance Information Listing

Financial Assurance information

Date of Government Version: 09/13/2023
Date Data Arrived at EDR: 09/14/2023
Date Made Active in Reports: 09/21/2023
Number of Days to Update: 7

Source: Department of Toxic Substances Control
Telephone: 916-255-3628
Last EDR Contact: 01/11/2024
Next Scheduled EDR Contact: 04/29/2024
Data Release Frequency: Varies

Financial Assurance 2: Financial Assurance Information Listing

A listing of financial assurance information for solid waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 08/03/2023
Date Data Arrived at EDR: 08/16/2023
Date Made Active in Reports: 11/01/2023
Number of Days to Update: 77

Source: California Integrated Waste Management Board
Telephone: 916-341-6066
Last EDR Contact: 02/05/2024
Next Scheduled EDR Contact: 05/20/2024
Data Release Frequency: Varies

ICE: Inspection, Compliance and Enforcement

Contains data pertaining to the Permitted Facilities with Inspections / Enforcements sites tracked in Envirostor.

Date of Government Version: 02/07/2024
Date Data Arrived at EDR: 02/07/2024
Date Made Active in Reports: 02/07/2024
Number of Days to Update: 0

Source: Department of Toxic Subsances Control
Telephone: 877-786-9427
Last EDR Contact: 02/07/2024
Next Scheduled EDR Contact: 02/26/2024
Data Release Frequency: Quarterly

HIST CORTESE: Hazardous Waste & Substance Site List

The sites for the list are designated by the State Water Resource Control Board [LUST], the Integrated Waste Board [SWF/LS], and the Department of Toxic Substances Control [CALSITES]. This listing is no longer updated by the state agency.

Date of Government Version: 04/01/2001
Date Data Arrived at EDR: 01/22/2009
Date Made Active in Reports: 04/08/2009
Number of Days to Update: 76

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 01/22/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

HWP: EnviroStor Permitted Facilities Listing

Detailed information on permitted hazardous waste facilities and corrective action ("cleanups") tracked in EnviroStor.

Date of Government Version: 02/07/2024
Date Data Arrived at EDR: 02/07/2024
Date Made Active in Reports: 02/07/2024
Number of Days to Update: 0

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 02/07/2024
Next Scheduled EDR Contact: 02/26/2024
Data Release Frequency: Quarterly

HWT: Registered Hazardous Waste Transporter Database

A listing of hazardous waste transporters. In California, unless specifically exempted, it is unlawful for any person to transport hazardous wastes unless the person holds a valid registration issued by DTSC. A hazardous waste transporter registration is valid for one year and is assigned a unique registration number.

Date of Government Version: 10/02/2023
Date Data Arrived at EDR: 10/04/2023
Date Made Active in Reports: 12/27/2023
Number of Days to Update: 84

Source: Department of Toxic Substances Control
Telephone: 916-440-7145
Last EDR Contact: 01/03/2024
Next Scheduled EDR Contact: 04/15/2024
Data Release Frequency: Quarterly

HWTS: Hazardous Waste Tracking System

DTSC maintains the Hazardous Waste Tracking System that stores ID number information since the early 1980s and manifest data since 1993. The system collects both manifest copies from the generator and destination facility.

Date of Government Version: 10/26/2023
Date Data Arrived at EDR: 10/27/2023
Date Made Active in Reports: 01/29/2024
Number of Days to Update: 94

Source: Department of Toxic Substances Control
Telephone: 916-324-2444
Last EDR Contact: 12/26/2023
Next Scheduled EDR Contact: 04/15/2024
Data Release Frequency: Varies

HAZNET: Facility and Manifest Data

Facility and Manifest Data. The data is extracted from the copies of hazardous waste manifests received each year by the DTSC. The annual volume of manifests is typically 700,000 - 1,000,000 annually, representing approximately 350,000 - 500,000 shipments. Data are from the manifests submitted without correction, and therefore many contain some invalid values for data elements such as generator ID, TSD ID, waste category, and disposal method. This database begins with calendar year 1993.

Date of Government Version: 12/31/2021
Date Data Arrived at EDR: 07/05/2022
Date Made Active in Reports: 09/19/2022
Number of Days to Update: 76

Source: California Environmental Protection Agency
Telephone: 916-255-1136
Last EDR Contact: 01/03/2024
Next Scheduled EDR Contact: 04/15/2024
Data Release Frequency: Annually

MINES: Mines Site Location Listing

A listing of mine site locations from the Office of Mine Reclamation.

Date of Government Version: 09/05/2023
Date Data Arrived at EDR: 09/06/2023
Date Made Active in Reports: 11/27/2023
Number of Days to Update: 82

Source: Department of Conservation
Telephone: 916-322-1080
Last EDR Contact: 11/29/2023
Next Scheduled EDR Contact: 03/18/2024
Data Release Frequency: Quarterly

MWMP: Medical Waste Management Program Listing

The Medical Waste Management Program (MWMP) ensures the proper handling and disposal of medical waste by permitting and inspecting medical waste Offsite Treatment Facilities (PDF) and Transfer Stations (PDF) throughout the state. MWMP also oversees all Medical Waste Transporters.

Date of Government Version: 08/08/2023
Date Data Arrived at EDR: 08/29/2023
Date Made Active in Reports: 11/13/2023
Number of Days to Update: 76

Source: Department of Public Health
Telephone: 916-558-1784
Last EDR Contact: 11/22/2023
Next Scheduled EDR Contact: 03/11/2024
Data Release Frequency: Varies

NPDES: NPDES Permits Listing

A listing of NPDES permits, including stormwater.

Date of Government Version: 11/06/2023
Date Data Arrived at EDR: 11/07/2023
Date Made Active in Reports: 02/05/2024
Number of Days to Update: 90

Source: State Water Resources Control Board
Telephone: 916-445-9379
Last EDR Contact: 02/06/2024
Next Scheduled EDR Contact: 05/20/2024
Data Release Frequency: Quarterly

PEST LIC: Pesticide Regulation Licenses Listing

A listing of licenses and certificates issued by the Department of Pesticide Regulation. The DPR issues licenses and/or certificates to: Persons and businesses that apply or sell pesticides; Pest control dealers and brokers; Persons who advise on agricultural pesticide applications.

Date of Government Version: 08/28/2023
Date Data Arrived at EDR: 08/29/2023
Date Made Active in Reports: 11/13/2023
Number of Days to Update: 76

Source: Department of Pesticide Regulation
Telephone: 916-445-4038
Last EDR Contact: 11/22/2023
Next Scheduled EDR Contact: 03/11/2024
Data Release Frequency: Quarterly

PROC: Certified Processors Database
A listing of certified processors.

Date of Government Version: 09/05/2023
Date Data Arrived at EDR: 09/06/2023
Date Made Active in Reports: 11/27/2023
Number of Days to Update: 82

Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 11/29/2023
Next Scheduled EDR Contact: 03/18/2024
Data Release Frequency: Quarterly

NOTIFY 65: Proposition 65 Records
Listings of all Proposition 65 incidents reported to counties by the State Water Resources Control Board and the Regional Water Quality Control Board. This database is no longer updated by the reporting agency.

Date of Government Version: 09/07/2023
Date Data Arrived at EDR: 09/08/2023
Date Made Active in Reports: 11/28/2023
Number of Days to Update: 81

Source: State Water Resources Control Board
Telephone: 916-445-3846
Last EDR Contact: 12/05/2023
Next Scheduled EDR Contact: 03/25/2024
Data Release Frequency: No Update Planned

SAN JOSE HAZMAT: Hazardous Material Facilities
Hazardous material facilities, including underground storage tank sites.

Date of Government Version: 11/03/2020
Date Data Arrived at EDR: 11/05/2020
Date Made Active in Reports: 01/26/2021
Number of Days to Update: 82

Source: City of San Jose Fire Department
Telephone: 408-535-7694
Last EDR Contact: 01/29/2024
Next Scheduled EDR Contact: 05/13/2024
Data Release Frequency: Annually

SANTA CRUZ CO SITE MITI: Site Mitigation Listing
Sites may become contaminated with toxic chemicals through illegal dumping or disposal, from leaking underground storage tanks, or through industrial or commercial activities.The goal of the site mitigation program is to protect the public health and the environment while facilitating completion of contaminated site clean-up projects in a timely manner.

Date of Government Version: 12/03/2018
Date Data Arrived at EDR: 06/23/2023
Date Made Active in Reports: 07/13/2023
Number of Days to Update: 20

Source: Santa Cruz Environmental Health Services
Telephone: 831-454-2761
Last EDR Contact: 11/16/2023
Next Scheduled EDR Contact: 02/26/2024
Data Release Frequency: Varies

UIC: UIC Listing
A listing of wells identified as underground injection wells, in the California Oil and Gas Wells database.

Date of Government Version: 09/05/2023
Date Data Arrived at EDR: 09/06/2023
Date Made Active in Reports: 11/28/2023
Number of Days to Update: 83

Source: Deaprtment of Conservation
Telephone: 916-445-2408
Last EDR Contact: 11/29/2023
Next Scheduled EDR Contact: 03/18/2024
Data Release Frequency: Varies

UIC GEO: Underground Injection Control Sites (GEOTRACKER)
Underground control injection sites

Date of Government Version: 09/05/2023
Date Data Arrived at EDR: 09/06/2023
Date Made Active in Reports: 11/27/2023
Number of Days to Update: 82

Source: State Water Resource Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/05/2023
Next Scheduled EDR Contact: 03/18/2024
Data Release Frequency: Varies

WASTEWATER PITS: Oil Wastewater Pits Listing

Water officials discovered that oil producers have been dumping chemical-laden wastewater into hundreds of unlined pits that are operating without proper permits. Inspections completed by the Central Valley Regional Water Quality Control Board revealed the existence of previously unidentified waste sites. The water boards review found that more than one-third of the region's active disposal pits are operating without permission.

Date of Government Version: 02/11/2021
Date Data Arrived at EDR: 07/01/2021
Date Made Active in Reports: 09/29/2021
Number of Days to Update: 90

Source: RWQCB, Central Valley Region
Telephone: 559-445-5577
Last EDR Contact: 01/05/2024
Next Scheduled EDR Contact: 04/15/2024
Data Release Frequency: Varies

WDS: Waste Discharge System

Sites which have been issued waste discharge requirements.

Date of Government Version: 06/19/2007
Date Data Arrived at EDR: 06/20/2007
Date Made Active in Reports: 06/29/2007
Number of Days to Update: 9

Source: State Water Resources Control Board
Telephone: 916-341-5227
Last EDR Contact: 11/10/2023
Next Scheduled EDR Contact: 02/26/2024
Data Release Frequency: No Update Planned

WIP: Well Investigation Program Case List

Well Investigation Program case in the San Gabriel and San Fernando Valley area.

Date of Government Version: 07/03/2009
Date Data Arrived at EDR: 07/21/2009
Date Made Active in Reports: 08/03/2009
Number of Days to Update: 13

Source: Los Angeles Water Quality Control Board
Telephone: 213-576-6726
Last EDR Contact: 12/12/2023
Next Scheduled EDR Contact: 04/01/2024
Data Release Frequency: No Update Planned

MILITARY PRIV SITES: Military Privatized Sites (GEOTRACKER)

Military privatized sites

Date of Government Version: 09/05/2023
Date Data Arrived at EDR: 09/06/2023
Date Made Active in Reports: 11/27/2023
Number of Days to Update: 82

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/05/2023
Next Scheduled EDR Contact: 03/18/2024
Data Release Frequency: Varies

PROJECT: Project Sites (GEOTRACKER)

Projects sites

Date of Government Version: 09/05/2023
Date Data Arrived at EDR: 09/06/2023
Date Made Active in Reports: 11/27/2023
Number of Days to Update: 82

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/05/2023
Next Scheduled EDR Contact: 03/18/2024
Data Release Frequency: Varies

WDR: Waste Discharge Requirements Listing

In general, the Waste Discharge Requirements (WDRs) Program (sometimes also referred to as the "Non Chapter 15 (Non 15) Program") regulates point discharges that are exempt pursuant to Subsection 20090 of Title 27 and not subject to the Federal Water Pollution Control Act. Exemptions from Title 27 may be granted for nine categories of discharges (e.g., sewage, wastewater, etc.) that meet, and continue to meet, the preconditions listed for each specific exemption. The scope of the WDRs Program also includes the discharge of wastes classified as inert, pursuant to section 20230 of Title 27.

Date of Government Version: 09/05/2023
Date Data Arrived at EDR: 09/06/2023
Date Made Active in Reports: 11/28/2023
Number of Days to Update: 83

Source: State Water Resources Control Board
Telephone: 916-341-5810
Last EDR Contact: 11/29/2023
Next Scheduled EDR Contact: 03/18/2024
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

CIWQS: California Integrated Water Quality System

The California Integrated Water Quality System (CIWQS) is a computer system used by the State and Regional Water Quality Control Boards to track information about places of environmental interest, manage permits and other orders, track inspections, and manage violations and enforcement activities.

Date of Government Version: 08/28/2023
Date Data Arrived at EDR: 08/29/2023
Date Made Active in Reports: 11/13/2023
Number of Days to Update: 76

Source: State Water Resources Control Board
Telephone: 866-794-4977
Last EDR Contact: 11/22/2023
Next Scheduled EDR Contact: 03/11/2024
Data Release Frequency: Varies

CERS: CalEPA Regulated Site Portal Data

The CalEPA Regulated Site Portal database combines data about environmentally regulated sites and facilities in California into a single database. It combines data from a variety of state and federal databases, and provides an overview of regulated activities across the spectrum of environmental programs for any given location in California. These activities include hazardous materials and waste, state and federal cleanups, impacted ground and surface waters, and toxic materials

Date of Government Version: 10/16/2023
Date Data Arrived at EDR: 10/17/2023
Date Made Active in Reports: 01/09/2024
Number of Days to Update: 84

Source: California Environmental Protection Agency
Telephone: 916-323-2514
Last EDR Contact: 01/16/2024
Next Scheduled EDR Contact: 04/29/2024
Data Release Frequency: Varies

NON-CASE INFO: Non-Case Information Sites (GEOTRACKER)

Non-Case Information sites

Date of Government Version: 09/05/2023
Date Data Arrived at EDR: 09/06/2023
Date Made Active in Reports: 11/27/2023
Number of Days to Update: 82

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/05/2023
Next Scheduled EDR Contact: 03/18/2024
Data Release Frequency: Varies

OTHER OIL GAS: Other Oil & Gas Projects Sites (GEOTRACKER)

Other Oil & Gas Projects sites

Date of Government Version: 09/05/2023
Date Data Arrived at EDR: 09/06/2023
Date Made Active in Reports: 11/27/2023
Number of Days to Update: 82

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/05/2023
Next Scheduled EDR Contact: 03/18/2024
Data Release Frequency: Varies

PROD WATER PONDS: Produced Water Ponds Sites (GEOTRACKER)

Produced water ponds sites

Date of Government Version: 09/05/2023
Date Data Arrived at EDR: 09/06/2023
Date Made Active in Reports: 11/27/2023
Number of Days to Update: 82

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/05/2023
Next Scheduled EDR Contact: 03/18/2024
Data Release Frequency: Varies

SAMPLING POINT: Sampling Point ? Public Sites (GEOTRACKER)

Sampling point - public sites

Date of Government Version: 09/05/2023
Date Data Arrived at EDR: 09/06/2023
Date Made Active in Reports: 11/27/2023
Number of Days to Update: 82

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/05/2023
Next Scheduled EDR Contact: 03/18/2024
Data Release Frequency: Varies

WELL STIM PROJ: Well Stimulation Project (GEOTRACKER)
Includes areas of groundwater monitoring plans, a depiction of the monitoring network, and the facilities, boundaries, and subsurface characteristics of the oilfield and the features (oil and gas wells, produced water ponds, UIC wells, water supply wells, etc?) being monitored

Date of Government Version: 09/05/2023
Date Data Arrived at EDR: 09/06/2023
Date Made Active in Reports: 11/27/2023
Number of Days to Update: 82
Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/05/2023
Next Scheduled EDR Contact: 03/18/2024
Data Release Frequency: Varies

UST FINDER RELEASE: UST Finder Releases Database
US EPA's UST Finder data is a national composite of leaking underground storage tanks. This data contains information about, and locations of, leaking underground storage tanks. Data was collected from state sources and standardized into a national profile by EPA's Office of Underground Storage Tanks, Office of Research and Development, and the Association of State and Territorial Solid Waste Management Officials.

Date of Government Version: 06/08/2023
Date Data Arrived at EDR: 10/31/2023
Date Made Active in Reports: 01/18/2024
Number of Days to Update: 79
Source: Environmental Protecton Agency
Telephone: 202-564-0394
Last EDR Contact: 10/31/2023
Next Scheduled EDR Contact: 02/19/2024
Data Release Frequency: Semi-Annually

UST FINDER: UST Finder Database
EPA developed UST Finder, a web map application containing a comprehensive, state-sourced national map of underground storage tank (UST) and leaking UST (LUST) data. It provides the attributes and locations of active and closed USTs, UST facilities, and LUST sites from states and from Tribal lands and US territories . UST Finder contains information about proximity of UST facilities and LUST sites to: surface and groundwater public drinking water protection areas; estimated number of private domestic wells and number of people living nearby; and flooding and wildfires.

Date of Government Version: 06/08/2023
Date Data Arrived at EDR: 10/04/2023
Date Made Active in Reports: 01/18/2024
Number of Days to Update: 106
Source: Environmental Protection Agency
Telephone: 202-564-0394
Last EDR Contact: 11/09/2023
Next Scheduled EDR Contact: 02/19/2024
Data Release Frequency: Varies

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP: EDR Proprietary Manufactured Gas Plants
The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A
Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

EDR Hist Auto: EDR Exclusive Historical Auto Stations
EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR Hist Cleaner: EDR Exclusive Historical Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA LF: Recovered Government Archive Solid Waste Facilities List

The EDR Recovered Government Archive Landfill database provides a list of landfills derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Resources Recycling and Recovery in California.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 01/13/2014
Number of Days to Update: 196

Source: Department of Resources Recycling and Recovery
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

RGA LUST: Recovered Government Archive Leaking Underground Storage Tank

The EDR Recovered Government Archive Leaking Underground Storage Tank database provides a list of LUST incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the State Water Resources Control Board in California.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 12/30/2013
Number of Days to Update: 182

Source: State Water Resources Control Board
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

COUNTY RECORDS

ALAMEDA COUNTY:

CS ALAMEDA: Contaminated Sites

A listing of contaminated sites overseen by the Toxic Release Program (oil and groundwater contamination from chemical releases and spills) and the Leaking Underground Storage Tank Program (soil and ground water contamination from leaking petroleum USTs).

Date of Government Version: 01/09/2019
Date Data Arrived at EDR: 01/11/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 53

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 12/26/2023
Next Scheduled EDR Contact: 04/15/2024
Data Release Frequency: Semi-Annually

UST ALAMEDA: Underground Tanks
Underground storage tank sites located in Alameda county.

Date of Government Version: 09/27/2023
Date Data Arrived at EDR: 09/28/2023
Date Made Active in Reports: 12/18/2023
Number of Days to Update: 81

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 12/26/2023
Next Scheduled EDR Contact: 04/15/2024
Data Release Frequency: Semi-Annually

AMADOR COUNTY:

CUPA AMADOR: CUPA Facility List
Cupa Facility List

Date of Government Version: 04/27/2023
Date Data Arrived at EDR: 04/27/2023
Date Made Active in Reports: 07/13/2023
Number of Days to Update: 77

Source: Amador County Environmental Health
Telephone: 209-223-6439
Last EDR Contact: 04/26/2023
Next Scheduled EDR Contact: 05/13/2024
Data Release Frequency: Varies

BUTTE COUNTY:

CUPA BUTTE: CUPA Facility Listing
Cupa facility list.

Date of Government Version: 04/21/2017
Date Data Arrived at EDR: 04/25/2017
Date Made Active in Reports: 08/09/2017
Number of Days to Update: 106

Source: Public Health Department
Telephone: 530-538-7149
Last EDR Contact: 12/26/2023
Next Scheduled EDR Contact: 04/15/2024
Data Release Frequency: No Update Planned

CALVERAS COUNTY:

CUPA CALVERAS: CUPA Facility Listing
Cupa Facility Listing

Date of Government Version: 09/12/2023
Date Data Arrived at EDR: 09/13/2023
Date Made Active in Reports: 12/04/2023
Number of Days to Update: 82

Source: Calveras County Environmental Health
Telephone: 209-754-6399
Last EDR Contact: 12/12/2023
Next Scheduled EDR Contact: 04/01/2024
Data Release Frequency: Quarterly

COLUSA COUNTY:

CUPA COLUSA: CUPA Facility List
Cupa facility list.

Date of Government Version: 04/06/2020
Date Data Arrived at EDR: 04/23/2020
Date Made Active in Reports: 07/10/2020
Number of Days to Update: 78

Source: Health & Human Services
Telephone: 530-458-0396
Last EDR Contact: 01/29/2024
Next Scheduled EDR Contact: 05/13/2024
Data Release Frequency: Semi-Annually

CONTRA COSTA COUNTY:

SL CONTRA COSTA: Site List
List includes sites from the underground tank, hazardous waste generator and business plan/2185 programs.

Date of Government Version: 10/20/2023
Date Data Arrived at EDR: 10/24/2023
Date Made Active in Reports: 01/16/2024
Number of Days to Update: 84

Source: Contra Costa Health Services Department
Telephone: 925-646-2286
Last EDR Contact: 01/22/2024
Next Scheduled EDR Contact: 05/06/2024
Data Release Frequency: Semi-Annually

DEL NORTE COUNTY:

CUPA DEL NORTE: CUPA Facility List
Cupa Facility list

Date of Government Version: 10/24/2023
Date Data Arrived at EDR: 10/25/2023
Date Made Active in Reports: 01/16/2024
Number of Days to Update: 83

Source: Del Norte County Environmental Health Division
Telephone: 707-465-0426
Last EDR Contact: 02/05/2024
Next Scheduled EDR Contact: 05/06/2024
Data Release Frequency: Varies

EL DORADO COUNTY:

CUPA EL DORADO: CUPA Facility List
CUPA facility list.

Date of Government Version: 08/08/2022
Date Data Arrived at EDR: 08/09/2022
Date Made Active in Reports: 09/01/2022
Number of Days to Update: 23

Source: El Dorado County Environmental Management Department
Telephone: 530-621-6623
Last EDR Contact: 01/22/2024
Next Scheduled EDR Contact: 05/06/2024
Data Release Frequency: Varies

FRESNO COUNTY:

CUPA FRESNO: CUPA Resources List
Certified Unified Program Agency. CUPA's are responsible for implementing a unified hazardous materials and hazardous waste management regulatory program. The agency provides oversight of businesses that deal with hazardous materials, operate underground storage tanks or aboveground storage tanks.

Date of Government Version: 06/28/2021
Date Data Arrived at EDR: 12/21/2021
Date Made Active in Reports: 03/03/2022
Number of Days to Update: 72

Source: Dept. of Community Health
Telephone: 559-445-3271
Last EDR Contact: 12/26/2023
Next Scheduled EDR Contact: 04/08/2024
Data Release Frequency: Semi-Annually

GLENN COUNTY:

CUPA GLENN: CUPA Facility List
Cupa facility list

Date of Government Version: 01/22/2018
Date Data Arrived at EDR: 01/24/2018
Date Made Active in Reports: 03/14/2018
Number of Days to Update: 49

Source: Glenn County Air Pollution Control District
Telephone: 830-934-6500
Last EDR Contact: 01/11/2024
Next Scheduled EDR Contact: 04/29/2024
Data Release Frequency: No Update Planned

HUMBOLDT COUNTY:

CUPA HUMBOLDT: CUPA Facility List
CUPA facility list.

Date of Government Version: 08/12/2021
Date Data Arrived at EDR: 08/12/2021
Date Made Active in Reports: 11/08/2021
Number of Days to Update: 88

Source: Humboldt County Environmental Health
Telephone: N/A
Last EDR Contact: 11/08/2023
Next Scheduled EDR Contact: 02/26/2024
Data Release Frequency: Semi-Annually

IMPERIAL COUNTY:

CUPA IMPERIAL: CUPA Facility List
Cupa facility list.

Date of Government Version: 10/10/2023
Date Data Arrived at EDR: 10/11/2023
Date Made Active in Reports: 01/04/2024
Number of Days to Update: 85

Source: San Diego Border Field Office
Telephone: 760-339-2777
Last EDR Contact: 01/11/2024
Next Scheduled EDR Contact: 04/29/2024
Data Release Frequency: Varies

INYO COUNTY:

CUPA INYO: CUPA Facility List
Cupa facility list.

Date of Government Version: 04/02/2018
Date Data Arrived at EDR: 04/03/2018
Date Made Active in Reports: 06/14/2018
Number of Days to Update: 72

Source: Inyo County Environmental Health Services
Telephone: 760-878-0238
Last EDR Contact: 11/08/2023
Next Scheduled EDR Contact: 02/26/2024
Data Release Frequency: Varies

KERN COUNTY:

CUPA KERN: CUPA Facility List
A listing of sites included in the Kern County Hazardous Material Business Plan.

Date of Government Version: 10/30/2023
Date Data Arrived at EDR: 11/01/2023
Date Made Active in Reports: 01/23/2024
Number of Days to Update: 83

Source: Kern County Public Health
Telephone: 661-321-3000
Last EDR Contact: 01/29/2024
Next Scheduled EDR Contact: 05/13/2024
Data Release Frequency: Varies

UST KERN: Underground Storage Tank Sites & Tank Listing
Kern County Sites and Tanks Listing.

Date of Government Version: 10/30/2023
Date Data Arrived at EDR: 11/01/2023
Date Made Active in Reports: 01/23/2024
Number of Days to Update: 83

Source: Kern County Environment Health Services Department
Telephone: 661-862-8700
Last EDR Contact: 01/29/2024
Next Scheduled EDR Contact: 05/13/2024
Data Release Frequency: Quarterly

KINGS COUNTY:

CUPA KINGS: CUPA Facility List
A listing of sites included in the county's Certified Unified Program Agency database. California's Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

Date of Government Version: 12/03/2020
Date Data Arrived at EDR: 01/26/2021
Date Made Active in Reports: 04/14/2021
Number of Days to Update: 78

Source: Kings County Department of Public Health
Telephone: 559-584-1411
Last EDR Contact: 11/08/2023
Next Scheduled EDR Contact: 02/26/2024
Data Release Frequency: Varies

LAKE COUNTY:

CUPA LAKE: CUPA Facility List
Cupa facility list

Date of Government Version: 10/27/2023
Date Data Arrived at EDR: 11/01/2023
Date Made Active in Reports: 11/21/2023
Number of Days to Update: 20

Source: Lake County Environmental Health
Telephone: 707-263-1164
Last EDR Contact: 01/09/2024
Next Scheduled EDR Contact: 04/22/2024
Data Release Frequency: Varies

LASSEN COUNTY:

CUPA LASSEN: CUPA Facility List
Cupa facility list

Date of Government Version: 07/31/2020
Date Data Arrived at EDR: 08/21/2020
Date Made Active in Reports: 11/09/2020
Number of Days to Update: 80

Source: Lassen County Environmental Health
Telephone: 530-251-8528
Last EDR Contact: 01/11/2024
Next Scheduled EDR Contact: 04/29/2024
Data Release Frequency: Varies

LOS ANGELES COUNTY:

AOCONCERN: Key Areas of Concerns in Los Angeles County
San Gabriel Valley areas where VOC contamination is at or above the MCL as designated by region 9 EPA office. Date of Government Version: 3/30/2009 Exide Site area is a cleanup plan of lead-impacted soil surrounding the former Exide Facility as designated by the DTSC. Date of Government Version: 7/17/2017

Date of Government Version: 03/30/2009
Date Data Arrived at EDR: 03/31/2009
Date Made Active in Reports: 10/23/2009
Number of Days to Update: 206

Source: N/A
Telephone: N/A
Last EDR Contact: 12/05/2023
Next Scheduled EDR Contact: 03/25/2024
Data Release Frequency: No Update Planned

HMS LOS ANGELES: HMS: Street Number List
Industrial Waste and Underground Storage Tank Sites.

Date of Government Version: 10/01/2023
Date Data Arrived at EDR: 10/06/2023
Date Made Active in Reports: 12/27/2023
Number of Days to Update: 82

Source: Department of Public Works
Telephone: 626-458-3517
Last EDR Contact: 01/11/2024
Next Scheduled EDR Contact: 04/15/2024
Data Release Frequency: Semi-Annually

LF LOS ANGELES: List of Solid Waste Facilities
Solid Waste Facilities in Los Angeles County.

Date of Government Version: 10/09/2023
Date Data Arrived at EDR: 10/09/2023
Date Made Active in Reports: 12/27/2023
Number of Days to Update: 79

Source: La County Department of Public Works
Telephone: 818-458-5185
Last EDR Contact: 01/10/2024
Next Scheduled EDR Contact: 04/22/2024
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

LF LOS ANGELES CITY: City of Los Angeles Landfills
Landfills owned and maintained by the City of Los Angeles.

Date of Government Version: 12/31/2022
Date Data Arrived at EDR: 01/12/2023
Date Made Active in Reports: 03/29/2023
Number of Days to Update: 76

Source: Engineering & Construction Division
Telephone: 213-473-7869
Last EDR Contact: 01/04/2024
Next Scheduled EDR Contact: 04/22/2024
Data Release Frequency: Varies

LOS ANGELES AST: Active & Inactive AST Inventory
A listing of active & inactive above ground petroleum storage tank site locations, located in the City of Los Angeles.

Date of Government Version: 06/01/2019
Date Data Arrived at EDR: 06/25/2019
Date Made Active in Reports: 08/22/2019
Number of Days to Update: 58

Source: Los Angeles Fire Department
Telephone: 213-978-3800
Last EDR Contact: 12/13/2023
Next Scheduled EDR Contact: 04/01/2024
Data Release Frequency: Varies

LOS ANGELES CO LF METHANE: Methane Producing Landfills
This data was created on April 30, 2012 to represent known disposal sites in Los Angeles County that may produce and emanate methane gas. The shapefile contains disposal sites within Los Angeles County that once accepted degradable refuse material. Information used to create this data was extracted from a landfill survey performed by County Engineers (Major Waste System Map, 1973) as well as historical records from CalRecycle, Regional Water Quality Control Board, and Los Angeles County Department of Public Health

Date of Government Version: 04/13/2023
Date Data Arrived at EDR: 07/13/2023
Date Made Active in Reports: 09/27/2023
Number of Days to Update: 76

Source: Los Angeles County Department of Public Works
Telephone: 626-458-6973
Last EDR Contact: 01/11/2024
Next Scheduled EDR Contact: 04/22/2024
Data Release Frequency: No Update Planned

LOS ANGELES HM: Active & Inactive Hazardous Materials Inventory
A listing of active & inactive hazardous materials facility locations, located in the City of Los Angeles.

Date of Government Version: 12/01/2023
Date Data Arrived at EDR: 12/13/2023
Date Made Active in Reports: 12/14/2023
Number of Days to Update: 1

Source: Los Angeles Fire Department
Telephone: 213-978-3800
Last EDR Contact: 12/13/2023
Next Scheduled EDR Contact: 04/01/2024
Data Release Frequency: Varies

LOS ANGELES UST: Active & Inactive UST Inventory
A listing of active & inactive underground storage tank site locations and underground storage tank historical sites, located in the City of Los Angeles.

Date of Government Version: 09/01/2023
Date Data Arrived at EDR: 09/20/2023
Date Made Active in Reports: 12/08/2023
Number of Days to Update: 79

Source: Los Angeles Fire Department
Telephone: 213-978-3800
Last EDR Contact: 12/13/2023
Next Scheduled EDR Contact: 04/01/2024
Data Release Frequency: Varies

SITE MIT LOS ANGELES: Site Mitigation List
Industrial sites that have had some sort of spill or complaint.

Date of Government Version: 07/11/2023
Date Data Arrived at EDR: 10/17/2023
Date Made Active in Reports: 01/09/2024
Number of Days to Update: 84

Source: Community Health Services
Telephone: 323-890-7806
Last EDR Contact: 01/19/2024
Next Scheduled EDR Contact: 04/29/2024
Data Release Frequency: Annually

UST EL SEGUNDO: City of El Segundo Underground Storage Tank
Underground storage tank sites located in El Segundo city.

Date of Government Version: 01/21/2017
Date Data Arrived at EDR: 04/19/2017
Date Made Active in Reports: 05/10/2017
Number of Days to Update: 21

Source: City of El Segundo Fire Department
Telephone: 310-524-2236
Last EDR Contact: 01/04/2024
Next Scheduled EDR Contact: 04/22/2024
Data Release Frequency: No Update Planned

UST LONG BEACH: City of Long Beach Underground Storage Tank
Underground storage tank sites located in the city of Long Beach.

Date of Government Version: 04/22/2019
Date Data Arrived at EDR: 04/23/2019
Date Made Active in Reports: 06/27/2019
Number of Days to Update: 65

Source: City of Long Beach Fire Department
Telephone: 562-570-2563
Last EDR Contact: 01/11/2024
Next Scheduled EDR Contact: 04/29/2024
Data Release Frequency: Varies

UST TORRANCE: City of Torrance Underground Storage Tank
Underground storage tank sites located in the city of Torrance.

Date of Government Version: 04/12/2023
Date Data Arrived at EDR: 05/02/2023
Date Made Active in Reports: 06/13/2023
Number of Days to Update: 42

Source: City of Torrance Fire Department
Telephone: 310-618-2973
Last EDR Contact: 01/11/2024
Next Scheduled EDR Contact: 04/29/2024
Data Release Frequency: Semi-Annually

MADERA COUNTY:

CUPA MADERA: CUPA Facility List
A listing of sites included in the county's Certified Unified Program Agency database. California's Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

Date of Government Version: 08/10/2020
Date Data Arrived at EDR: 08/12/2020
Date Made Active in Reports: 10/23/2020
Number of Days to Update: 72

Source: Madera County Environmental Health
Telephone: 559-675-7823
Last EDR Contact: 11/08/2023
Next Scheduled EDR Contact: 02/26/2024
Data Release Frequency: Varies

MARIN COUNTY:

UST MARIN: Underground Storage Tank Sites
Currently permitted USTs in Marin County.

Date of Government Version: 09/26/2018
Date Data Arrived at EDR: 10/04/2018
Date Made Active in Reports: 11/02/2018
Number of Days to Update: 29

Source: Public Works Department Waste Management
Telephone: 415-473-6647
Last EDR Contact: 12/18/2023
Next Scheduled EDR Contact: 04/08/2024
Data Release Frequency: Semi-Annually

MENDOCINO COUNTY:

UST MENDOCINO: Mendocino County UST Database
A listing of underground storage tank locations in Mendocino County.

Date of Government Version: 09/22/2021
Date Data Arrived at EDR: 11/18/2021
Date Made Active in Reports: 11/22/2021
Number of Days to Update: 4

Source: Department of Public Health
Telephone: 707-463-4466
Last EDR Contact: 11/13/2023
Next Scheduled EDR Contact: 03/04/2024
Data Release Frequency: Annually

MERCED COUNTY:

CUPA MERCED: CUPA Facility List
CUPA facility list.

Date of Government Version: 07/25/2023
Date Data Arrived at EDR: 08/03/2023
Date Made Active in Reports: 10/19/2023
Number of Days to Update: 77

Source: Merced County Environmental Health
Telephone: 209-381-1094
Last EDR Contact: 11/08/2023
Next Scheduled EDR Contact: 02/26/2024
Data Release Frequency: Varies

MONO COUNTY:

CUPA MONO: CUPA Facility List
CUPA Facility List

Date of Government Version: 02/22/2021
Date Data Arrived at EDR: 03/02/2021
Date Made Active in Reports: 05/19/2021
Number of Days to Update: 78

Source: Mono County Health Department
Telephone: 760-932-5580
Last EDR Contact: 11/13/2023
Next Scheduled EDR Contact: 03/04/2024
Data Release Frequency: Varies

MONTEREY COUNTY:

CUPA MONTEREY: CUPA Facility Listing
CUPA Program listing from the Environmental Health Division.

Date of Government Version: 10/04/2021
Date Data Arrived at EDR: 10/06/2021
Date Made Active in Reports: 12/29/2021
Number of Days to Update: 84

Source: Monterey County Health Department
Telephone: 831-796-1297
Last EDR Contact: 01/22/2024
Next Scheduled EDR Contact: 04/08/2024
Data Release Frequency: Varies

NAPA COUNTY:

LUST NAPA: Sites With Reported Contamination
A listing of leaking underground storage tank sites located in Napa county.

Date of Government Version: 01/09/2017
Date Data Arrived at EDR: 01/11/2017
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 50

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 11/13/2023
Next Scheduled EDR Contact: 03/04/2024
Data Release Frequency: No Update Planned

UST NAPA: Closed and Operating Underground Storage Tank Sites
Underground storage tank sites located in Napa county.

Date of Government Version: 09/05/2019
Date Data Arrived at EDR: 09/09/2019
Date Made Active in Reports: 10/31/2019
Number of Days to Update: 52

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 11/13/2023
Next Scheduled EDR Contact: 03/04/2024
Data Release Frequency: No Update Planned

NEVADA COUNTY:

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

CUPA NEVADA: CUPA Facility List
CUPA facility list.

Date of Government Version: 10/31/2023
Date Data Arrived at EDR: 11/03/2023
Date Made Active in Reports: 01/23/2024
Number of Days to Update: 81

Source: Community Development Agency
Telephone: 530-265-1467
Last EDR Contact: 01/22/2024
Next Scheduled EDR Contact: 05/06/2024
Data Release Frequency: Varies

ORANGE COUNTY:

IND_SITE ORANGE: List of Industrial Site Cleanups
Petroleum and non-petroleum spills.

Date of Government Version: 10/10/2023
Date Data Arrived at EDR: 11/01/2023
Date Made Active in Reports: 01/23/2024
Number of Days to Update: 83

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 02/02/2024
Next Scheduled EDR Contact: 05/13/2024
Data Release Frequency: Annually

LUST ORANGE: List of Underground Storage Tank Cleanups
Orange County Underground Storage Tank Cleanups (LUST).

Date of Government Version: 10/10/2023
Date Data Arrived at EDR: 11/01/2023
Date Made Active in Reports: 01/23/2024
Number of Days to Update: 83

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 02/02/2024
Next Scheduled EDR Contact: 05/13/2024
Data Release Frequency: Quarterly

UST ORANGE: List of Underground Storage Tank Facilities
Orange County Underground Storage Tank Facilities (UST).

Date of Government Version: 10/10/2023
Date Data Arrived at EDR: 11/01/2023
Date Made Active in Reports: 01/23/2024
Number of Days to Update: 83

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 02/02/2024
Next Scheduled EDR Contact: 05/13/2024
Data Release Frequency: Quarterly

PLACER COUNTY:

MS PLACER: Master List of Facilities
List includes aboveground tanks, underground tanks and cleanup sites.

Date of Government Version: 11/09/2023
Date Data Arrived at EDR: 11/09/2023
Date Made Active in Reports: 11/21/2023
Number of Days to Update: 12

Source: Placer County Health and Human Services
Telephone: 530-745-2363
Last EDR Contact: 11/01/2023
Next Scheduled EDR Contact: 03/11/2024
Data Release Frequency: Semi-Annually

PLUMAS COUNTY:

CUPA PLUMAS: CUPA Facility List
Plumas County CUPA Program facilities.

Date of Government Version: 03/31/2019
Date Data Arrived at EDR: 04/23/2019
Date Made Active in Reports: 06/26/2019
Number of Days to Update: 64

Source: Plumas County Environmental Health
Telephone: 530-283-6355
Last EDR Contact: 01/11/2024
Next Scheduled EDR Contact: 04/29/2024
Data Release Frequency: Varies

RIVERSIDE COUNTY:

LUST RIVERSIDE: Listing of Underground Tank Cleanup Sites
Riverside County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 09/29/2023
Date Data Arrived at EDR: 10/04/2023
Date Made Active in Reports: 12/27/2023
Number of Days to Update: 84
Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 12/05/2023
Next Scheduled EDR Contact: 03/25/2024
Data Release Frequency: Quarterly

UST RIVERSIDE: Underground Storage Tank Tank List
Underground storage tank sites located in Riverside county.

Date of Government Version: 09/29/2023
Date Data Arrived at EDR: 10/04/2023
Date Made Active in Reports: 12/27/2023
Number of Days to Update: 84
Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 12/05/2023
Next Scheduled EDR Contact: 03/25/2024
Data Release Frequency: Quarterly

SACRAMENTO COUNTY:

CS SACRAMENTO: Toxic Site Clean-Up List
List of sites where unauthorized releases of potentially hazardous materials have occurred.

Date of Government Version: 11/07/2022
Date Data Arrived at EDR: 12/21/2022
Date Made Active in Reports: 03/16/2023
Number of Days to Update: 85
Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 12/18/2023
Next Scheduled EDR Contact: 04/08/2024
Data Release Frequency: Quarterly

ML SACRAMENTO: Master Hazardous Materials Facility List
Any business that has hazardous materials on site - hazardous material storage sites, underground storage tanks, waste generators.

Date of Government Version: 11/07/2022
Date Data Arrived at EDR: 12/09/2022
Date Made Active in Reports: 03/01/2023
Number of Days to Update: 82
Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 12/18/2023
Next Scheduled EDR Contact: 04/08/2024
Data Release Frequency: Quarterly

SAN BENITO COUNTY:

CUPA SAN BENITO: CUPA Facility List
Cupa facility list

Date of Government Version: 01/17/2024
Date Data Arrived at EDR: 01/18/2024
Date Made Active in Reports: 01/26/2024
Number of Days to Update: 8
Source: San Benito County Environmental Health
Telephone: N/A
Last EDR Contact: 01/11/2024
Next Scheduled EDR Contact: 05/13/2024
Data Release Frequency: Varies

SAN BERNARDINO COUNTY:

PERMITS SAN BERNARDINO: Hazardous Material Permits
This listing includes underground storage tanks, medical waste handlers/generators, hazardous materials handlers, hazardous waste generators, and waste oil generators/handlers.

Date of Government Version: 11/08/2023
Date Data Arrived at EDR: 11/09/2023
Date Made Active in Reports: 02/07/2024
Number of Days to Update: 90

Source: San Bernardino County Fire Department Hazardous Materials Division
Telephone: 909-387-3041
Last EDR Contact: 01/29/2024
Next Scheduled EDR Contact: 05/12/2024
Data Release Frequency: Quarterly

SAN DIEGO COUNTY:

HMMD SAN DIEGO: Hazardous Materials Management Division Database

The database includes: HE58 - This report contains the business name, site address, business phone number, establishment 'H' permit number, type of permit, and the business status. HE17 - In addition to providing the same information provided in the HE58 listing, HE17 provides inspection dates, violations received by the establishment, hazardous waste generated, the quantity, method of storage, treatment/disposal of waste and the hauler, and information on underground storage tanks. Unauthorized Release List - Includes a summary of environmental contamination cases in San Diego County (underground tank cases, non-tank cases, groundwater contamination, and soil contamination are included.)

Date of Government Version: 08/28/2023
Date Data Arrived at EDR: 08/29/2023
Date Made Active in Reports: 11/13/2023
Number of Days to Update: 76

Source: Hazardous Materials Management Division
Telephone: 619-338-2268
Last EDR Contact: 11/27/2023
Next Scheduled EDR Contact: 03/11/2024
Data Release Frequency: Quarterly

LF SAN DIEGO: Solid Waste Facilities

San Diego County Solid Waste Facilities.

Date of Government Version: 04/04/2023
Date Data Arrived at EDR: 04/05/2023
Date Made Active in Reports: 06/27/2023
Number of Days to Update: 83

Source: Department of Health Services
Telephone: 619-338-2209
Last EDR Contact: 01/11/2024
Next Scheduled EDR Contact: 04/29/2024
Data Release Frequency: Varies

SAN DIEGO CO LOP: Local Oversight Program Listing

A listing of all LOP release sites that are or were under the County of San Diego's jurisdiction. Included are closed or transferred cases, open cases, and cases that did not have a case type indicated. The cases without a case type are mostly complaints; however, some of them could be LOP cases.

Date of Government Version: 07/22/2021
Date Data Arrived at EDR: 10/19/2021
Date Made Active in Reports: 01/13/2022
Number of Days to Update: 86

Source: Department of Environmental Health
Telephone: 858-505-6874
Last EDR Contact: 01/11/2024
Next Scheduled EDR Contact: 04/29/2024
Data Release Frequency: Varies

SAN DIEGO CO SAM: Environmental Case Listing

The listing contains all underground tank release cases and projects pertaining to properties contaminated with hazardous substances that are actively under review by the Site Assessment and Mitigation Program.

Date of Government Version: 03/23/2010
Date Data Arrived at EDR: 06/15/2010
Date Made Active in Reports: 07/09/2010
Number of Days to Update: 24

Source: San Diego County Department of Environmental Health
Telephone: 619-338-2371
Last EDR Contact: 11/21/2023
Next Scheduled EDR Contact: 03/11/2024
Data Release Frequency: No Update Planned

SAN FRANCISCO COUNTY:

CUPA SAN FRANCISCO CO: CUPA Facility Listing

Cupa facilities

Date of Government Version: 10/30/2023
Date Data Arrived at EDR: 11/01/2023
Date Made Active in Reports: 01/23/2024
Number of Days to Update: 83

Source: San Francisco County Department of Environmental Health
Telephone: 415-252-3896
Last EDR Contact: 01/29/2024
Next Scheduled EDR Contact: 05/13/2024
Data Release Frequency: Varies

LUST SAN FRANCISCO: Local Oversite Facilities
A listing of leaking underground storage tank sites located in San Francisco county.

Date of Government Version: 09/19/2008
Date Data Arrived at EDR: 09/19/2008
Date Made Active in Reports: 09/29/2008
Number of Days to Update: 10

Source: Department Of Public Health San Francisco County
Telephone: 415-252-3920
Last EDR Contact: 01/29/2024
Next Scheduled EDR Contact: 05/13/2024
Data Release Frequency: No Update Planned

UST SAN FRANCISCO: Underground Storage Tank Information
Underground storage tank sites located in San Francisco county.

Date of Government Version: 10/30/2023
Date Data Arrived at EDR: 11/01/2023
Date Made Active in Reports: 01/23/2024
Number of Days to Update: 83

Source: Department of Public Health
Telephone: 415-252-3920
Last EDR Contact: 01/29/2024
Next Scheduled EDR Contact: 05/13/2024
Data Release Frequency: Quarterly

SAN FRANCISO COUNTY:

SAN FRANCISCO MAHER: Maher Ordinance Property Listing
a listing of properties that fall within a Maher Ordinance, for all of San Francisco

Date of Government Version: 10/15/2023
Date Data Arrived at EDR: 10/17/2023
Date Made Active in Reports: 01/11/2024
Number of Days to Update: 86

Source: San Francisco Planning
Telephone: 628-652-7483
Last EDR Contact: 01/18/2024
Next Scheduled EDR Contact: 04/29/2024
Data Release Frequency: Varies

SAN JOAQUIN COUNTY:

UST SAN JOAQUIN: San Joaquin Co. UST
A listing of underground storage tank locations in San Joaquin county.

Date of Government Version: 06/22/2018
Date Data Arrived at EDR: 06/26/2018
Date Made Active in Reports: 07/11/2018
Number of Days to Update: 15

Source: Environmental Health Department
Telephone: N/A
Last EDR Contact: 12/05/2023
Next Scheduled EDR Contact: 03/25/2024
Data Release Frequency: Semi-Annually

SAN LUIS OBISPO COUNTY:

CUPA SAN LUIS OBISPO: CUPA Facility List
Cupa Facility List.

Date of Government Version: 11/08/2023
Date Data Arrived at EDR: 11/09/2023
Date Made Active in Reports: 02/07/2024
Number of Days to Update: 90

Source: San Luis Obispo County Public Health Department
Telephone: 805-781-5596
Last EDR Contact: 11/08/2023
Next Scheduled EDR Contact: 02/26/2024
Data Release Frequency: Varies

SAN MATEO COUNTY:

BI SAN MATEO: Business Inventory
List includes Hazardous Materials Business Plan, hazardous waste generators, and underground storage tanks.

Date of Government Version: 02/20/2020
Date Data Arrived at EDR: 02/20/2020
Date Made Active in Reports: 04/24/2020
Number of Days to Update: 64
Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 12/07/2023
Next Scheduled EDR Contact: 03/18/2024
Data Release Frequency: Annually

LUST SAN MATEO: Fuel Leak List
A listing of leaking underground storage tank sites located in San Mateo county.

Date of Government Version: 03/29/2019
Date Data Arrived at EDR: 03/29/2019
Date Made Active in Reports: 05/29/2019
Number of Days to Update: 61
Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 11/28/2023
Next Scheduled EDR Contact: 03/18/2024
Data Release Frequency: Semi-Annually

SANTA BARBARA COUNTY:

CUPA SANTA BARBARA: CUPA Facility Listing
CUPA Program Listing from the Environmental Health Services division.

Date of Government Version: 09/08/2011
Date Data Arrived at EDR: 09/09/2011
Date Made Active in Reports: 10/07/2011
Number of Days to Update: 28
Source: Santa Barbara County Public Health Department
Telephone: 805-686-8167
Last EDR Contact: 11/08/2023
Next Scheduled EDR Contact: 02/26/2024
Data Release Frequency: No Update Planned

SANTA CLARA COUNTY:

CUPA SANTA CLARA: Cupa Facility List
Cupa facility list

Date of Government Version: 11/07/2023
Date Data Arrived at EDR: 11/08/2023
Date Made Active in Reports: 11/16/2023
Number of Days to Update: 8
Source: Department of Environmental Health
Telephone: 408-918-1973
Last EDR Contact: 10/31/2023
Next Scheduled EDR Contact: 02/26/2024
Data Release Frequency: Varies

HIST LUST SANTA CLARA: HIST LUST - Fuel Leak Site Activity Report
A listing of open and closed leaking underground storage tanks. This listing is no longer updated by the county. Leaking underground storage tanks are now handled by the Department of Environmental Health.

Date of Government Version: 03/29/2005
Date Data Arrived at EDR: 03/30/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 22
Source: Santa Clara Valley Water District
Telephone: 408-265-2600
Last EDR Contact: 03/23/2009
Next Scheduled EDR Contact: 06/22/2009
Data Release Frequency: No Update Planned

LUST SANTA CLARA: LOP Listing
A listing of leaking underground storage tanks located in Santa Clara county.

Date of Government Version: 03/03/2014
Date Data Arrived at EDR: 03/05/2014
Date Made Active in Reports: 03/18/2014
Number of Days to Update: 13
Source: Department of Environmental Health
Telephone: 408-918-3417
Last EDR Contact: 11/13/2023
Next Scheduled EDR Contact: 03/04/2024
Data Release Frequency: No Update Planned

SANTA CRUZ COUNTY:

CUPA SANTA CRUZ: CUPA Facility List
CUPA facility listing.

Date of Government Version: 01/21/2017
Date Data Arrived at EDR: 02/22/2017
Date Made Active in Reports: 05/23/2017
Number of Days to Update: 90

Source: Santa Cruz County Environmental Health
Telephone: 831-464-2761
Last EDR Contact: 11/08/2023
Next Scheduled EDR Contact: 02/26/2024
Data Release Frequency: Varies

SHASTA COUNTY:

CUPA SHASTA: CUPA Facility List
Cupa Facility List.

Date of Government Version: 06/15/2017
Date Data Arrived at EDR: 06/19/2017
Date Made Active in Reports: 08/09/2017
Number of Days to Update: 51

Source: Shasta County Department of Resource Management
Telephone: 530-225-5789
Last EDR Contact: 11/08/2023
Next Scheduled EDR Contact: 02/26/2024
Data Release Frequency: Varies

SOLANO COUNTY:

LUST SOLANO: Leaking Underground Storage Tanks
A listing of leaking underground storage tank sites located in Solano county.

Date of Government Version: 06/04/2019
Date Data Arrived at EDR: 06/06/2019
Date Made Active in Reports: 08/13/2019
Number of Days to Update: 68

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 11/21/2023
Next Scheduled EDR Contact: 03/11/2024
Data Release Frequency: Quarterly

UST SOLANO: Underground Storage Tanks
Underground storage tank sites located in Solano county.

Date of Government Version: 09/15/2021
Date Data Arrived at EDR: 09/16/2021
Date Made Active in Reports: 12/09/2021
Number of Days to Update: 84

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 11/21/2023
Next Scheduled EDR Contact: 03/11/2024
Data Release Frequency: Quarterly

SONOMA COUNTY:

CUPA SONOMA: Cupa Facility List
Cupa Facility list

Date of Government Version: 07/02/2021
Date Data Arrived at EDR: 07/06/2021
Date Made Active in Reports: 07/14/2021
Number of Days to Update: 8

Source: County of Sonoma Fire & Emergency Services Department
Telephone: 707-565-1174
Last EDR Contact: 12/12/2023
Next Scheduled EDR Contact: 04/01/2024
Data Release Frequency: Varies

LUST SONOMA: Leaking Underground Storage Tank Sites
A listing of leaking underground storage tank sites located in Sonoma county.

Date of Government Version: 06/30/2021
Date Data Arrived at EDR: 06/30/2021
Date Made Active in Reports: 09/24/2021
Number of Days to Update: 86

Source: Department of Health Services
Telephone: 707-565-6565
Last EDR Contact: 12/12/2023
Next Scheduled EDR Contact: 04/01/2024
Data Release Frequency: Quarterly

STANISLAUS COUNTY:

CUPA STANISLAUS: CUPA Facility List
Cupa facility list

Date of Government Version: 02/08/2022
Date Data Arrived at EDR: 02/10/2022
Date Made Active in Reports: 05/04/2022
Number of Days to Update: 83

Source: Stanislaus County Department of Ennvironmental Protection
Telephone: 209-525-6751
Last EDR Contact: 01/04/2024
Next Scheduled EDR Contact: 04/22/2024
Data Release Frequency: Varies

SUTTER COUNTY:

UST SUTTER: Underground Storage Tanks
Underground storage tank sites located in Sutter county.

Date of Government Version: 08/03/2023
Date Data Arrived at EDR: 08/24/2023
Date Made Active in Reports: 09/12/2023
Number of Days to Update: 19

Source: Sutter County Environmental Health Services
Telephone: 530-822-7500
Last EDR Contact: 11/21/2023
Next Scheduled EDR Contact: 03/11/2024
Data Release Frequency: Semi-Annually

TEHAMA COUNTY:

CUPA TEHAMA: CUPA Facility List
Cupa facilities

Date of Government Version: 08/01/2023
Date Data Arrived at EDR: 08/02/2023
Date Made Active in Reports: 10/19/2023
Number of Days to Update: 78

Source: Tehama County Department of Environmental Health
Telephone: 530-527-8020
Last EDR Contact: 01/29/2024
Next Scheduled EDR Contact: 05/13/2024
Data Release Frequency: Varies

TRINITY COUNTY:

CUPA TRINITY: CUPA Facility List
Cupa facility list

Date of Government Version: 10/10/2023
Date Data Arrived at EDR: 10/11/2023
Date Made Active in Reports: 01/04/2024
Number of Days to Update: 85

Source: Department of Toxic Substances Control
Telephone: 760-352-0381
Last EDR Contact: 01/11/2024
Next Scheduled EDR Contact: 04/29/2024
Data Release Frequency: Varies

TULARE COUNTY:

CUPA TULARE: CUPA Facility List
Cupa program facilities

Date of Government Version: 10/07/2022
Date Data Arrived at EDR: 10/07/2022
Date Made Active in Reports: 12/21/2022
Number of Days to Update: 75

Source: Tulare County Environmental Health Services Division
Telephone: 559-624-7400
Last EDR Contact: 01/29/2024
Next Scheduled EDR Contact: 05/13/2024
Data Release Frequency: Varies

TUOLUMNE COUNTY:

CUPA TUOLUMNE: CUPA Facility List
Cupa facility list

Date of Government Version: 04/23/2018
Date Data Arrived at EDR: 04/25/2018
Date Made Active in Reports: 06/25/2018
Number of Days to Update: 61

Source: Divison of Environmental Health
Telephone: 209-533-5633
Last EDR Contact: 01/11/2024
Next Scheduled EDR Contact: 04/29/2024
Data Release Frequency: Varies

VENTURA COUNTY:

BWT VENTURA: Business Plan, Hazardous Waste Producers, and Operating Underground Tanks
The BWT list indicates by site address whether the Environmental Health Division has Business Plan (B), Waste Producer (W), and/or Underground Tank (T) information.

Date of Government Version: 09/26/2023
Date Data Arrived at EDR: 10/20/2023
Date Made Active in Reports: 01/11/2024
Number of Days to Update: 83

Source: Ventura County Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 01/16/2024
Next Scheduled EDR Contact: 04/29/2024
Data Release Frequency: Quarterly

LF VENTURA: Inventory of Illegal Abandoned and Inactive Sites
Ventura County Inventory of Closed, Illegal Abandoned, and Inactive Sites.

Date of Government Version: 12/01/2011
Date Data Arrived at EDR: 12/01/2011
Date Made Active in Reports: 01/19/2012
Number of Days to Update: 49

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 12/18/2023
Next Scheduled EDR Contact: 04/08/2024
Data Release Frequency: No Update Planned

LUST VENTURA: Listing of Underground Tank Cleanup Sites
Ventura County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 05/29/2008
Date Data Arrived at EDR: 06/24/2008
Date Made Active in Reports: 07/31/2008
Number of Days to Update: 37

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 02/02/2024
Next Scheduled EDR Contact: 05/20/2024
Data Release Frequency: No Update Planned

MED WASTE VENTURA: Medical Waste Program List
To protect public health and safety and the environment from potential exposure to disease causing agents, the Environmental Health Division Medical Waste Program regulates the generation, handling, storage, treatment and disposal of medical waste throughout the County.

Date of Government Version: 09/26/2023
Date Data Arrived at EDR: 10/24/2023
Date Made Active in Reports: 01/11/2024
Number of Days to Update: 79

Source: Ventura County Resource Management Agency
Telephone: 805-654-2813
Last EDR Contact: 01/16/2024
Next Scheduled EDR Contact: 04/29/2024
Data Release Frequency: Quarterly

UST VENTURA: Underground Tank Closed Sites List
Ventura County Operating Underground Storage Tank Sites (UST)/Underground Tank Closed Sites List.

Date of Government Version: 08/28/2023
Date Data Arrived at EDR: 09/06/2023
Date Made Active in Reports: 11/28/2023
Number of Days to Update: 83

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 11/29/2023
Next Scheduled EDR Contact: 03/18/2024
Data Release Frequency: Quarterly

YOLO COUNTY:

UST YOLO: Underground Storage Tank Comprehensive Facility Report
Underground storage tank sites located in Yolo county.

Date of Government Version: 09/21/2023
Date Data Arrived at EDR: 10/04/2023
Date Made Active in Reports: 12/27/2023
Number of Days to Update: 84

Source: Yolo County Department of Health
Telephone: 530-666-8646
Last EDR Contact: 12/18/2023
Next Scheduled EDR Contact: 04/08/2024
Data Release Frequency: Annually

YUBA COUNTY:

CUPA YUBA: CUPA Facility List
CUPA facility listing for Yuba County.

Date of Government Version: 10/30/2023
Date Data Arrived at EDR: 11/03/2023
Date Made Active in Reports: 01/23/2024
Number of Days to Update: 81

Source: Yuba County Environmental Health Department
Telephone: 530-749-7523
Last EDR Contact: 01/22/2024
Next Scheduled EDR Contact: 05/06/2024
Data Release Frequency: Varies

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

CT MANIFEST: Hazardous Waste Manifest Data
Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 11/06/2023
Date Data Arrived at EDR: 11/07/2023
Date Made Active in Reports: 01/31/2024
Number of Days to Update: 85

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 02/06/2024
Next Scheduled EDR Contact: 05/20/2024
Data Release Frequency: No Update Planned

NJ MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2018
Date Data Arrived at EDR: 04/10/2019
Date Made Active in Reports: 05/16/2019
Number of Days to Update: 36

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 12/27/2023
Next Scheduled EDR Contact: 04/15/2024
Data Release Frequency: Annually

NY MANIFEST: Facility and Manifest Data
Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 12/31/2019
Date Data Arrived at EDR: 11/30/2023
Date Made Active in Reports: 12/01/2023
Number of Days to Update: 1

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 01/26/2024
Next Scheduled EDR Contact: 05/06/2024
Data Release Frequency: Quarterly

PA MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 06/30/2018
Date Data Arrived at EDR: 07/19/2019
Date Made Active in Reports: 09/10/2019
Number of Days to Update: 53

Source: Department of Environmental Protection
Telephone: 717-783-8990
Last EDR Contact: 01/05/2024
Next Scheduled EDR Contact: 04/22/2024
Data Release Frequency: Annually

RI MANIFEST: Manifest information
Hazardous waste manifest information

Date of Government Version: 12/31/2020
Date Data Arrived at EDR: 11/30/2021
Date Made Active in Reports: 02/18/2022
Number of Days to Update: 80

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 11/09/2022
Next Scheduled EDR Contact: 02/26/2024
Data Release Frequency: Annually

WI MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 05/31/2018
Date Data Arrived at EDR: 06/19/2019
Date Made Active in Reports: 09/03/2019
Number of Days to Update: 76

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 11/29/2023
Next Scheduled EDR Contact: 03/18/2024
Data Release Frequency: Annually

Oil/Gas Pipelines
Source: Endeavor Business Media
Petroleum Bundle (Crude Oil, Refined Products, Petrochemicals, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)) N = Natural Gas Bundle (Natural Gas, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)). This map includes information copyrighted by Endeavor Business Media. This information is provided on a best effort basis and Endeavor Business Media does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of Endeavor Business Media.

Electric Power Transmission Line Data
Source: Endeavor Business Media
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Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:
Source: American Hospital Association, Inc.
Telephone: 312-280-5991
The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing
Source: Centers for Medicare & Medicaid Services
Telephone: 410-786-3000
A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes
Source: National Institutes of Health
Telephone: 301-594-6248
Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Private Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on private school locations in the United States.
Daycare Centers: Licensed Facilities
Source: Department of Social Services
Telephone: 916-657-4041

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.
Source: FEMA
Telephone: 877-336-2627
Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005, 2010 and 2015 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory
Source: Department of Fish and Wildlife
Telephone: 916-445-0411

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

STREET AND ADDRESS INFORMATION

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GEOCHECK ®- PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

LANCASTER PARCEL 3378-004-008
NOT REPORTED
LANCASTER, CA 93535

TARGET PROPERTY COORDINATES

Latitude (North):	34.662609 - 34° 39' 45.39''
Longitude (West):	117.965323 - 117° 57' 55.16''
Universal Tranverse Mercator:	Zone 11
UTM X (Meters):	411549.1
UTM Y (Meters):	3835856.0
Elevation:	2505 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	50005266 ALPINE BUTTE, CA
Version Date:	2021

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principle investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

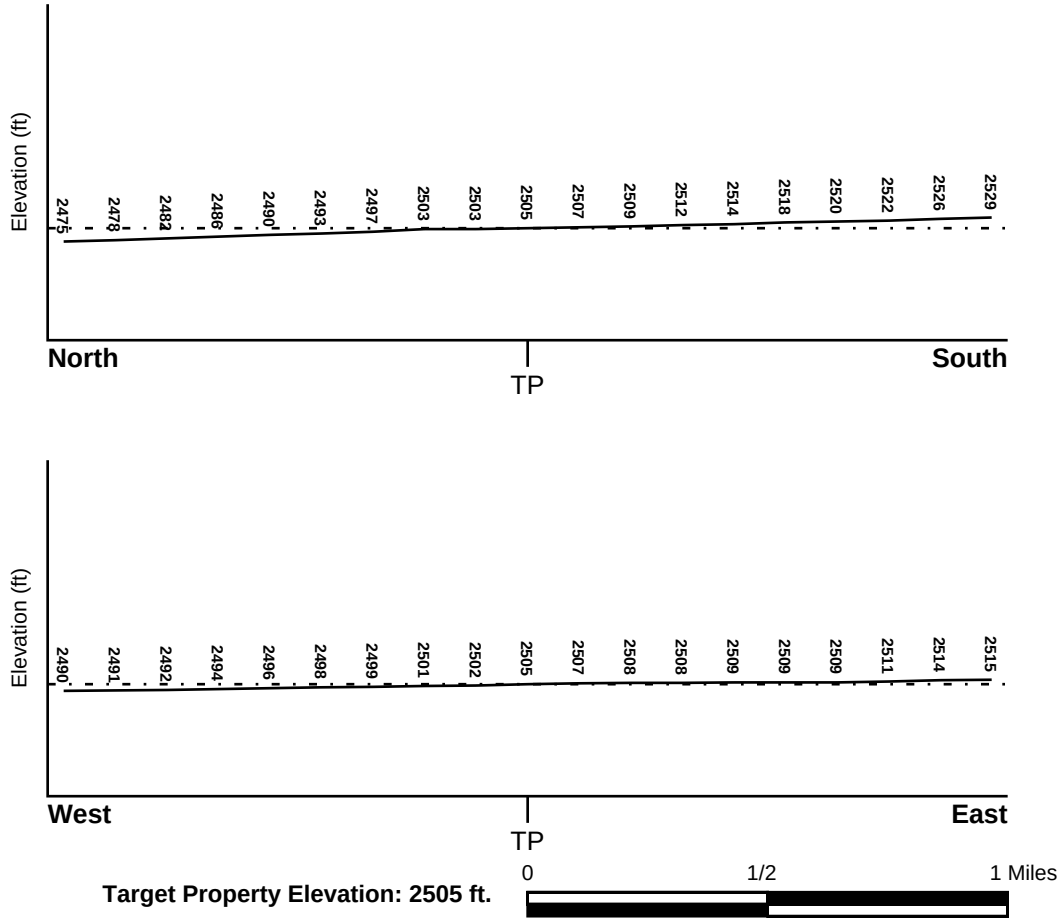
TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General NW

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

Flood Plain Panel at Target Property	FEMA Source Type
06037C0462F	FEMA FIRM Flood data

Additional Panels in search area:	FEMA Source Type
06037C0465F	FEMA FIRM Flood data
06037C0464F	FEMA FIRM Flood data

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property	NWI Electronic Data Coverage
NOT AVAILABLE	YES - refer to the Overview Map and Detail Map

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Site-Specific Hydrogeological Data*:

Search Radius:	1.25 miles
Status:	Not found

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

MAP ID	LOCATION FROM TP	GENERAL DIRECTION GROUNDWATER FLOW
Not Reported		

* ©1996 Site−specific hydrogeological data gathered by CERCLIS Alerts, Inc., Bainbridge Island, WA. All rights reserved. All of the information and opinions presented are those of the cited EPA report(s), which were completed under a Comprehensive Environmental Response Compensation and Liability Information System (CERCLIS) investigation.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

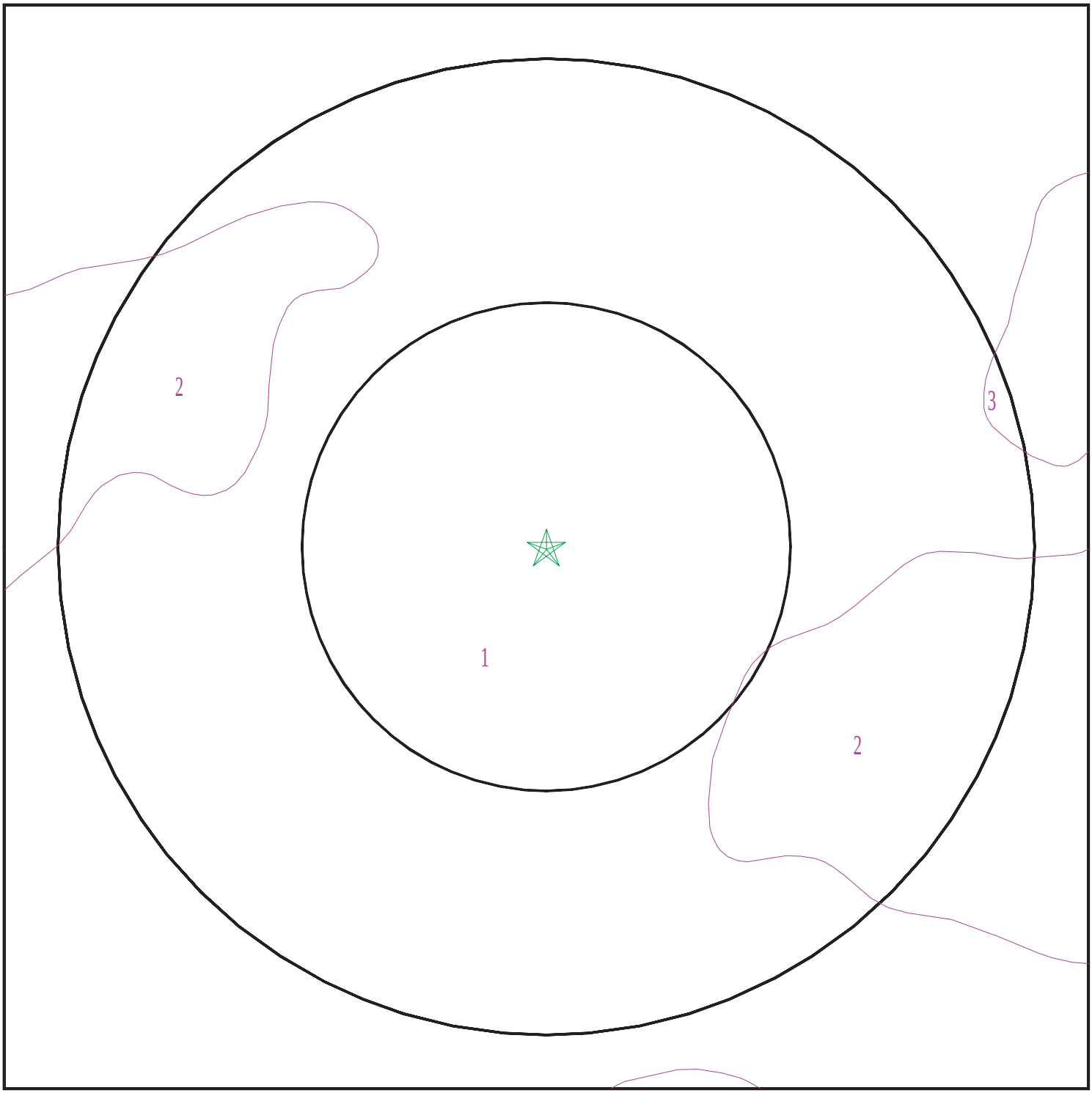
Era:	Cenozoic
System:	Quaternary
Series:	Quaternary
Code:	Q *(decoded above as Era, System & Series)*

GEOLOGIC AGE IDENTIFICATION

Category: Stratifed Sequence

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

SSURGO SOIL MAP - 7563392.14s



Target Property
SSURGO Soil
Water

0 1/16 1/8 1/4 Miles

N

SITE NAME:	Lancaster Parcel 3378-004-008	CLIENT:	NV5
ADDRESS:	Not Reported	CONTACT:	Eric Fraske
	LANCASTER CA 93535	INQUIRY #:	7563392.14s
LAT/LONG:	34.662609 / 117.965323	DATE:	February 08, 2024 2:48 pm

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GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. The following information is based on Soil Conservation Service SSURGO data.

Soil Map ID: 1

Soil Component Name: Hesperia

Soil Surface Texture: loamy fine sand

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	7 inches	loamy fine sand	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 8.4 Min: 7.4
2	7 inches	53 inches	fine sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 8.4 Min: 7.4
3	53 inches	77 inches	sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 8.4 Min: 7.4

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Map ID: 2

Soil Component Name: Hesperia

Soil Surface Texture: fine sandy loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information

	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	3 inches	fine sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 8.4 Min: 7.4
2	3 inches	53 inches	fine sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 8.4 Min: 7.4
3	53 inches	77 inches	sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 8.4 Min: 7.4

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Map ID: 3

Soil Component Name: Cajon

Soil Surface Texture: loamy sand

Hydrologic Group: Class A - High infiltration rates. Soils are deep, well drained to excessively drained sands and gravels.

Soil Drainage Class: Excessively drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	9 inches	loamy sand	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 8.4 Min: 7.4
2	9 inches	59 inches	sand	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 8.4 Min: 7.4

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

WELL SEARCH DISTANCE INFORMATION

DATABASE	SEARCH DISTANCE (miles)
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
A2	USGS40000150489	0 - 1/8 Mile East
B3	USGS40000150360	1/4 - 1/2 Mile ESE
5	USGS40000150803	1/4 - 1/2 Mile North
C8	USGS40000150189	1/4 - 1/2 Mile SSE
D9	USGS40000150322	1/4 - 1/2 Mile WSW
D10	USGS40000150394	1/4 - 1/2 Mile WSW
E12	USGS40000150053	1/2 - 1 Mile SSW
F14	USGS40000150774	1/2 - 1 Mile WNW
17	USGS40000150773	1/2 - 1 Mile ENE
G20	USGS40000151055	1/2 - 1 Mile NNE
21	USGS40000151113	1/2 - 1 Mile North
22	USGS40000151133	1/2 - 1 Mile NNW
23	USGS40000150052	1/2 - 1 Mile SE
24	USGS40000150054	1/2 - 1 Mile SW

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

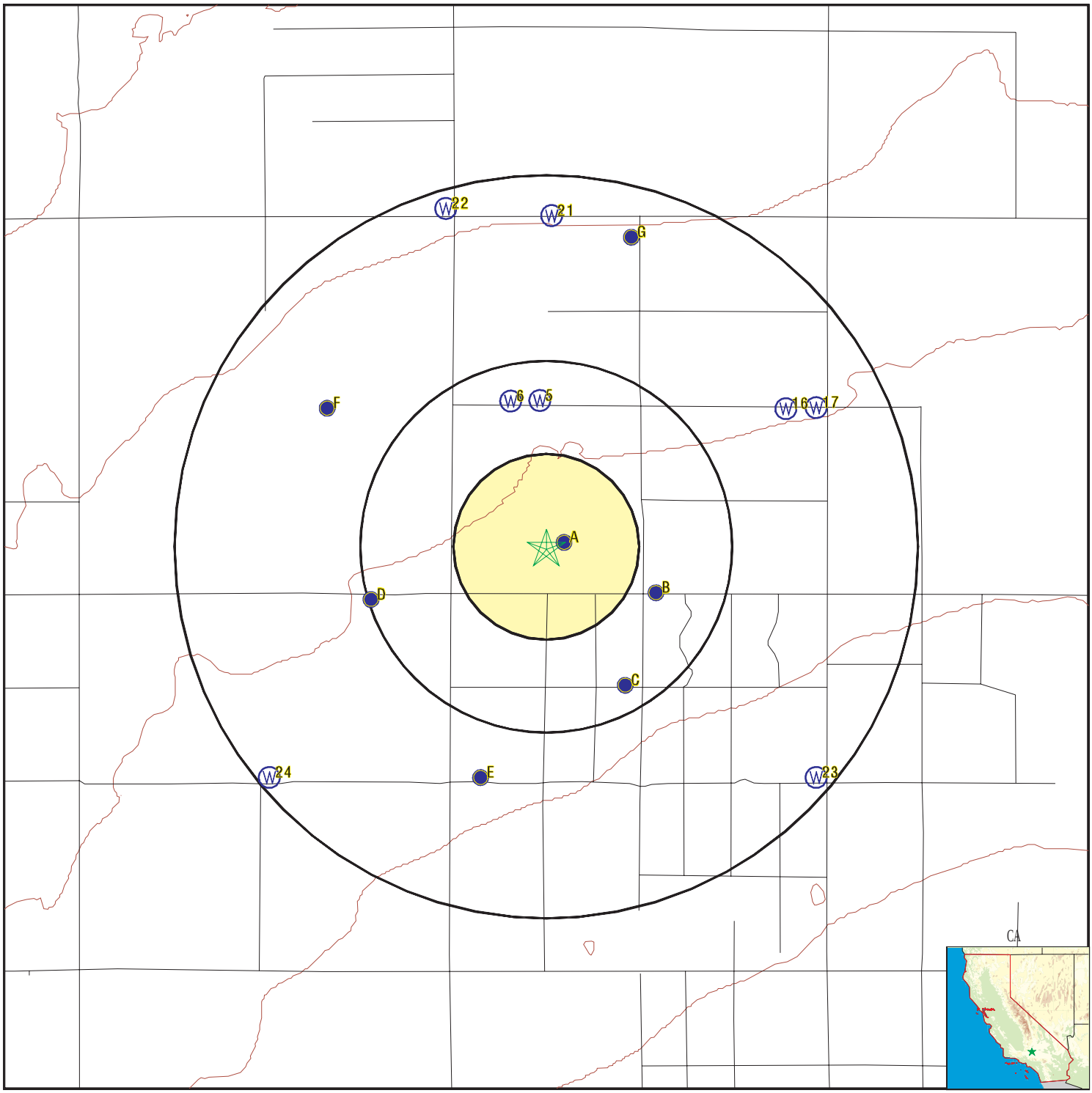
MAP ID	WELL ID	LOCATION FROM TP
No PWS System Found		

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
A1	CADWR9000011512	0 - 1/8 Mile NE
B4	CADWR9000011473	1/4 - 1/2 Mile ESE
6	CADWR9000011605	1/4 - 1/2 Mile NNW
C7	CADWR9000011427	1/4 - 1/2 Mile SSE
D11	CADWR9000011456	1/2 - 1 Mile WSW
E13	CADWR9000011399	1/2 - 1 Mile SSW
F15	CADWR9000011587	1/2 - 1 Mile WNW
16	CADWR9000011586	1/2 - 1 Mile ENE
G18	CADWR9000011668	1/2 - 1 Mile NNE
G19	CADWR0000017255	1/2 - 1 Mile NNE

PHYSICAL SETTING SOURCE MAP - 7563392.14s



County Boundary
Major Roads
Contour Lines
Earthquake Fault Lines
Earthquake epicenter, Richter 5 or greater
Water Wells
Public Water Supply Wells
Cluster of Multiple Icons

Groundwater Flow Direction
GI Indeterminate Groundwater Flow at Location
GV Groundwater Flow Varies at Location
HD Closest Hydrogeological Data
Oil, gas or related wells

SITE NAME:	Lancaster Parcel 3378-004-008	CLIENT:	NV5
ADDRESS:	Not Reported	CONTACT:	Eric Fraske
	LANCASTER CA 93535	INQUIRY #:	7563392.14s
LAT/LONG:	34.662609 / 117.965323	DATE:	February 08, 2024 2:48 pm

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GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

A1
NE
0 - 1/8 Mile
Higher

CA WELLS **CADWR9000011512**

State Well #:	07N10W29P001S	Station ID:	9227
Well Name:	Not Reported	Basin Name:	Antelope Valley
Well Use:	Unknown	Well Type:	Unknown
Well Depth:	0	Well Completion Rpt #:	Not Reported

A2
East
0 - 1/8 Mile
Higher

FED USGS **USGS40000150489**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	007N010W29P001S	Type:	Well
Description:	Not Reported	HUC:	18090206
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Basin and Range basin-fill aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19460901	Well Depth:	378.7
Well Depth Units:	ft	Well Hole Depth:	410
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	20	Level reading date:	2000-03-22
Feet below surface:	306.81	Feet to sea level:	Not Reported
Note:	Not Reported		

Level reading date:	1999-03-31	Feet below surface:	303.88
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1998-03-18	Feet below surface:	303.81
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1997-03-03	Feet below surface:	304.02
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1996-04-17	Feet below surface:	305.08
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1995-04-19	Feet below surface:	306.12
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1994-04-12	Feet below surface:	308.17
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1993-04-22	Feet below surface:	310.59
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1992-04-15	Feet below surface:	314.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1991-03-21	Feet below surface:	319.04
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1990-03-14	Feet below surface:	322.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1989-03-21	Feet below surface:	327.07
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1988-03-30	Feet below surface:	330.18
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1987-02-23	Feet below surface:	334.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1986-03-20	Feet below surface:	339.48
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1985-03-28	Feet below surface:	342.78
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1984-03-08	Feet below surface:	346.64
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1983-04-15	Feet below surface:	349.96
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1982-02-08	Feet below surface:	352.93
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-09-02	Feet below surface:	355.02
Feet to sea level:	Not Reported	Note:	Not Reported

B3
ESE
1/4 - 1/2 Mile
Higher

FED USGS **USGS40000150360**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	007N010W29Q001S	Type:	Well
Description:	Not Reported	HUC:	18090206
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Basin and Range basin-fill aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19431201	Well Depth:	370.5
Well Depth Units:	ft	Well Hole Depth:	376
Well Hole Depth Units:	ft		

B4
ESE
1/4 - 1/2 Mile
Higher

CA WELLS **CADWR9000011473**

State Well #:	07N10W29Q001S	Station ID:	25605
Well Name:	Not Reported	Basin Name:	Antelope Valley
Well Use:	Unknown	Well Type:	Unknown
Well Depth:	0	Well Completion Rpt #:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

5
North
1/4 - 1/2 Mile
Lower

FED USGS **USGS40000150803**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	007N010W29E001S	Type:	Well
Description:	Not Reported	HUC:	18090206
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Basin and Range basin-fill aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19460101	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	600
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	1	Level reading date:	1950-12-19
Feet below surface:	208.08	Feet to sea level:	Not Reported
Note:	Not Reported		

6
NNW
1/4 - 1/2 Mile
Lower

CA WELLS **CADWR9000011605**

State Well #:	07N10W29E001S	Station ID:	9225
Well Name:	Not Reported	Basin Name:	Antelope Valley
Well Use:	Unknown	Well Type:	Unknown
Well Depth:	0	Well Completion Rpt #:	Not Reported

C7
SSE
1/4 - 1/2 Mile
Higher

CA WELLS **CADWR9000011427**

State Well #:	07N10W32B001S	Station ID:	9234
Well Name:	Not Reported	Basin Name:	Antelope Valley
Well Use:	Unknown	Well Type:	Unknown
Well Depth:	0	Well Completion Rpt #:	Not Reported

C8
SSE
1/4 - 1/2 Mile
Higher

FED USGS **USGS40000150189**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	007N010W32B001S	Type:	Well
Description:	Not Reported	HUC:	18090206
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Basin and Range basin-fill aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported

Construction Date:	19480901	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	504
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	12	Level reading date:	1992-04-16
Feet below surface:	Not Reported	Feet to sea level:	Not Reported
Note:	The measurement was discontinued.		

Level reading date:	1992-04-15	Feet below surface:	Not Reported
Feet to sea level:	Not Reported		
Note:	An obstruction was encountered in the well above the water surface (no water level recorded).		

Level reading date:	1990-03-14	Feet below surface:	320.45
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1989-03-21	Feet below surface:	335.22
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1988-03-30	Feet below surface:	325.80
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1987-02-24	Feet below surface:	328.89
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1986-03-20	Feet below surface:	332.60
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1985-03-28	Feet below surface:	335.02
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1984-03-08	Feet below surface:	338.18
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1983-04-15	Feet below surface:	340.67
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1982-02-08	Feet below surface:	342.99
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1981-09-02	Feet below surface:	343.50
Feet to sea level:	Not Reported	Note:	Not Reported

D9
WSW **FED USGS** **USGS40000150322**
1/4 - 1/2 Mile
Lower

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	007N010W31A001S	Type:	Well
Description:	Not Reported	HUC:	18090206
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Basin and Range basin-fill aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19210101	Well Depth:	300
Well Depth Units:	ft	Well Hole Depth:	550
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	40	Level reading date:	1943-12-15
Feet below surface:	166.20	Feet to sea level:	Not Reported
Note:	Not Reported		
Level reading date:	1943-04-21	Feet below surface:	165.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1942-12-04	Feet below surface:	161.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1942-04-22	Feet below surface:	160.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1941-12-03	Feet below surface:	156.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1941-04-11	Feet below surface:	149.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1940-11-29	Feet below surface:	153.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1940-03-13	Feet below surface:	146.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1939-11-18	Feet below surface:	148.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1937-11-10	Feet below surface:	141.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1927-10-27	Feet below surface:	93.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1927-05-09	Feet below surface:	92.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1927-01-17	Feet below surface:	88.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1926-10-15	Feet below surface:	91.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1926-09-16	Feet below surface:	92.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1926-05-13	Feet below surface:	87.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1926-03-16	Feet below surface:	84.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1926-01-04	Feet below surface:	86.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1925-10-30	Feet below surface:	86.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1925-10-06	Feet below surface:	86.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1925-07-17	Feet below surface:	86.70

Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1925-06-09	Feet below surface:	85.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1925-05-06	Feet below surface:	84.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1925-02-10	Feet below surface:	82.30
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1924-11-14	Feet below surface:	83.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1924-10-23	Feet below surface:	84.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1924-07-10	Feet below surface:	84.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1924-04-12	Feet below surface:	81.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1923-12-12	Feet below surface:	82.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1923-10-08	Feet below surface:	82.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1923-07-14	Feet below surface:	82.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1923-07-12	Feet below surface:	83.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1923-05-08	Feet below surface:	81.60
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1922-10-21	Feet below surface:	72.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1922-08-30	Feet below surface:	82.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1922-05-01	Feet below surface:	80.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1922-01-23	Feet below surface:	78.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1921-10-02	Feet below surface:	79.50
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1921-08-02	Feet below surface:	80.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1921-05-09	Feet below surface:	78.70
Feet to sea level:	Not Reported	Note:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

D10
WSW
1/4 - 1/2 Mile
Lower

FED USGS **USGS40000150394**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	007N010W30R001S	Type:	Well
Description:	Not Reported	HUC:	18090206
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Basin and Range basin-fill aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19200101	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	600
Well Hole Depth Units:	ft		

D11
WSW
1/2 - 1 Mile
Lower

CA WELLS **CADWR9000011456**

State Well #:	07N10W31A001S	Station ID:	40116
Well Name:	Not Reported	Basin Name:	Antelope Valley
Well Use:	Unknown	Well Type:	Unknown
Well Depth:	0	Well Completion Rpt #:	Not Reported

E12
SSW
1/2 - 1 Mile
Higher

FED USGS **USGS40000150053**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	007N010W32E001S	Type:	Well
Description:	Not Reported	HUC:	18090206
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Basin and Range basin-fill aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19431002	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	343
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	3	Level reading date:	1947-02-25
Feet below surface:	215.00	Feet to sea level:	Not Reported
Note:	Not Reported		
Level reading date:	1946	Feet below surface:	195.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1943-10-02	Feet below surface:	175.00
Feet to sea level:	Not Reported	Note:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

E13
SSW
1/2 - 1 Mile
Higher

CA WELLS **CADWR9000011399**

State Well #:	07N10W32E001S	Station ID:	39428
Well Name:	Not Reported	Basin Name:	Antelope Valley
Well Use:	Unknown	Well Type:	Unknown
Well Depth:	0	Well Completion Rpt #:	Not Reported

F14
WNW
1/2 - 1 Mile
Lower

FED USGS **USGS40000150774**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	007N010W30G001S	Type:	Well
Description:	Not Reported	HUC:	18090206
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Basin and Range basin-fill aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	450
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	10	Level reading date:	1952-11-25
Feet below surface:	221.70	Feet to sea level:	Not Reported
Note:	Not Reported		

Level reading date:	1951-11-06	Feet below surface:	217.57
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1950-11-15	Feet below surface:	206.44
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1949-11-29	Feet below surface:	198.10
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1947-11-06	Feet below surface:	187.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1946-11-26	Feet below surface:	170.40
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1943-12-15	Feet below surface:	155.20
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1942-12-04	Feet below surface:	152.00
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1941-12-02	Feet below surface:	144.90
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1940-11-29	Feet below surface:	143.10
Feet to sea level:	Not Reported	Note:	Not Reported

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

F15
WNW
1/2 - 1 Mile
Lower

CA WELLS **CADWR9000011587**

State Well #:	07N10W30G001S	Station ID:	9230
Well Name:	Not Reported	Basin Name:	Antelope Valley
Well Use:	Unknown	Well Type:	Unknown
Well Depth:	0	Well Completion Rpt #:	Not Reported

16
ENE
1/2 - 1 Mile
Lower

CA WELLS **CADWR9000011586**

State Well #:	07N10W29H001S	Station ID:	9226
Well Name:	Not Reported	Basin Name:	Antelope Valley
Well Use:	Unknown	Well Type:	Unknown
Well Depth:	0	Well Completion Rpt #:	Not Reported

17
ENE
1/2 - 1 Mile
Lower

FED USGS **USGS40000150773**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	007N010W29H001S	Type:	Well
Description:	Not Reported	HUC:	18090206
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Basin and Range basin-fill aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19290101	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	404
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	1	Level reading date:	1950-12-21
Feet below surface:	208.93	Feet to sea level:	Not Reported
Note:	Not Reported		

G18
NNE
1/2 - 1 Mile
Lower

CA WELLS **CADWR9000011668**

State Well #:	07N10W29B001S	Station ID:	9224
Well Name:	Not Reported	Basin Name:	Antelope Valley
Well Use:	Unknown	Well Type:	Unknown
Well Depth:	0	Well Completion Rpt #:	Not Reported

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

G19
NNE
1/2 - 1 Mile
Lower

CA WELLS **CADWR0000017255**

Well ID:	07N10W29B001S	Well Type:	UNK
Source:	Department of Water Resources		
Other Name:	07N10W29B001S	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DWR&samp_date=&global_id=&assigned_name=07N10W29B001S&store_num=		
GeoTracker Data:	Not Reported		

G20
NNE
1/2 - 1 Mile
Lower

FED USGS **USGS40000151055**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	007N010W29B001S	Type:	Well
Description:	Not Reported	HUC:	18090206
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Basin and Range basin-fill aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19440101	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	585
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	25	Level reading date:	2004-03-29
Feet below surface:	333.50	Feet to sea level:	Not Reported
Note:	A nearby site that taps the same aquifer was being pumped.		
Level reading date:	2003-03-24	Feet below surface:	327.10
Feet to sea level:	Not Reported		
Note:	A nearby site that taps the same aquifer was being pumped.		
Level reading date:	2002-03-27	Feet below surface:	309.94
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2001-03-13	Feet below surface:	302.11
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	2000-03-22	Feet below surface:	299.09
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1999-03-31	Feet below surface:	Not Reported
Feet to sea level:	Not Reported	Note:	The site was being pumped.
Level reading date:	1998-03-18	Feet below surface:	295.54
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1997-03-03	Feet below surface:	292.80
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1996-04-17	Feet below surface:	295.87
Feet to sea level:	Not Reported	Note:	Not Reported

Level reading date:	1995-04-19	Feet below surface:	295.92
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1994-04-12	Feet below surface:	297.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1993-04-21	Feet below surface:	299.94
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1992-04-14	Feet below surface:	303.08
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1991-03-20	Feet below surface:	307.92
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1990-03-15	Feet below surface:	312.32
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1989-03-20	Feet below surface:	317.35
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1988-03-30	Feet below surface:	321.34
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1987-02-23	Feet below surface:	325.49
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1986-03-20	Feet below surface:	330.46
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1985-03-28	Feet below surface:	334.32
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1984-03-08	Feet below surface:	337.48
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1983-04-15	Feet below surface:	340.96
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1982-02-08	Feet below surface:	343.25
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1981-09-03	Feet below surface:	348.70
Feet to sea level:	Not Reported	Note:	Not Reported
Level reading date:	1950-12-19	Feet below surface:	201.52
Feet to sea level:	Not Reported	Note:	Not Reported

21
North
1/2 - 1 Mile
Lower

FED USGS **USGS40000151113**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	007N010W20N001S	Type:	Well
Description:	Not Reported	HUC:	18090206
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Basin and Range basin-fill aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported

Construction Date:	19390101	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	405
Well Hole Depth Units:	ft		

22
NNW
1/2 - 1 Mile
Lower

FED USGS **USGS40000151133**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	007N010W19R001S	Type:	Well
Description:	Not Reported	HUC:	18090206
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Basin and Range basin-fill aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

23
SE
1/2 - 1 Mile
Higher

FED USGS **USGS40000150052**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	007N010W32H001S	Type:	Well
Description:	Not Reported	HUC:	18090206
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Basin and Range basin-fill aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19450303	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	418
Well Hole Depth Units:	ft		

24
SW
1/2 - 1 Mile
Higher

FED USGS **USGS40000150054**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	007N010W31G001S	Type:	Well
Description:	Not Reported	HUC:	18090206
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Basin and Range basin-fill aquifers		
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
RADON

AREA RADON INFORMATION

State Database: CA Radon

Radon Test Results

Zipcode	Num Tests	> 4 pCi/L
93535	21	0

Federal EPA Radon Zone for LOS ANGELES County: 2

Note: Zone 1 indoor average level > 4 pCi/L.
: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
: Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for LOS ANGELES COUNTY, CA

Number of sites tested: 63

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	0.711 pCi/L	98%	2%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	0.933 pCi/L	100%	0%	0%

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)
Source: United States Geologic Survey
EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

HYDROLOGIC INFORMATION

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.
Source: FEMA
Telephone: 877-336-2627
Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005, 2010 and 2015 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory
Source: Department of Fish and Wildlife
Telephone: 916-445-0411

HYDROGEOLOGIC INFORMATION

AQUIFLOW^{R} Information System
Source: EDR proprietary database of groundwater flow information
EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit
Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
Telephone: 800-672-5559
SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Service, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)
This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

OTHER STATE DATABASE INFORMATION

Groundwater Ambient Monitoring & Assessment Program
State Water Resources Control Board
Telephone: 916-341-5577
The GAMA Program is Californias comprehensive groundwater quality monitoring program. GAMA collects data by testing the untreated, raw water in different types of wells for naturally-occurring and man-made chemicals. The GAMA data includes Domestic, Monitoring and Municipal well types from the following sources, Department of Water Resources, Department of Heath Services, EDF, Agricultural Lands, Lawrence Livermore National Laboratory, Department of Pesticide Regulation, United States Geological Survey, Groundwater Ambient Monitoring and Assessment Program and Local Groundwater Projects.

Water Well Database
Source: Department of Water Resources
Telephone: 916-651-9648

California Drinking Water Quality Database
Source: Department of Public Health
Telephone: 916-324-2319
The database includes all drinking water compliance and special studies monitoring for the state of California since 1984. It consists of over 3,200,000 individual analyses along with well and water system information.

California Oil and Gas Well Locations
Source: Dept of Conservation, Geologic Energy Management Division
Telephone: 916-323-1779
Oil and Gas well locations in the state.

California Earthquake Fault Lines
Source: California Division of Mines and Geology
The fault lines displayed on EDR's Topographic map are digitized quaternary fault lines prepared in 1975 by the United State Geological Survey. Additional information (also from 1975) regarding activity at specific fault lines comes from California's Preliminary Fault Activity Map prepared by the California Division of Mines and Geology.

RADON

State Database: CA Radon
Source: Department of Public Health
Telephone: 916-210-8558
Radon Database for California

PHYSICAL SETTING SOURCE RECORDS SEARCHED

Area Radon Information
Source: USGS
Telephone: 703-356-4020
The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones
Source: EPA
Telephone: 703-356-4020
Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

OTHER

Airport Landing Facilities: Private and public use landing facilities
Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater
Source: Department of Commerce, National Oceanic and Atmospheric Administration

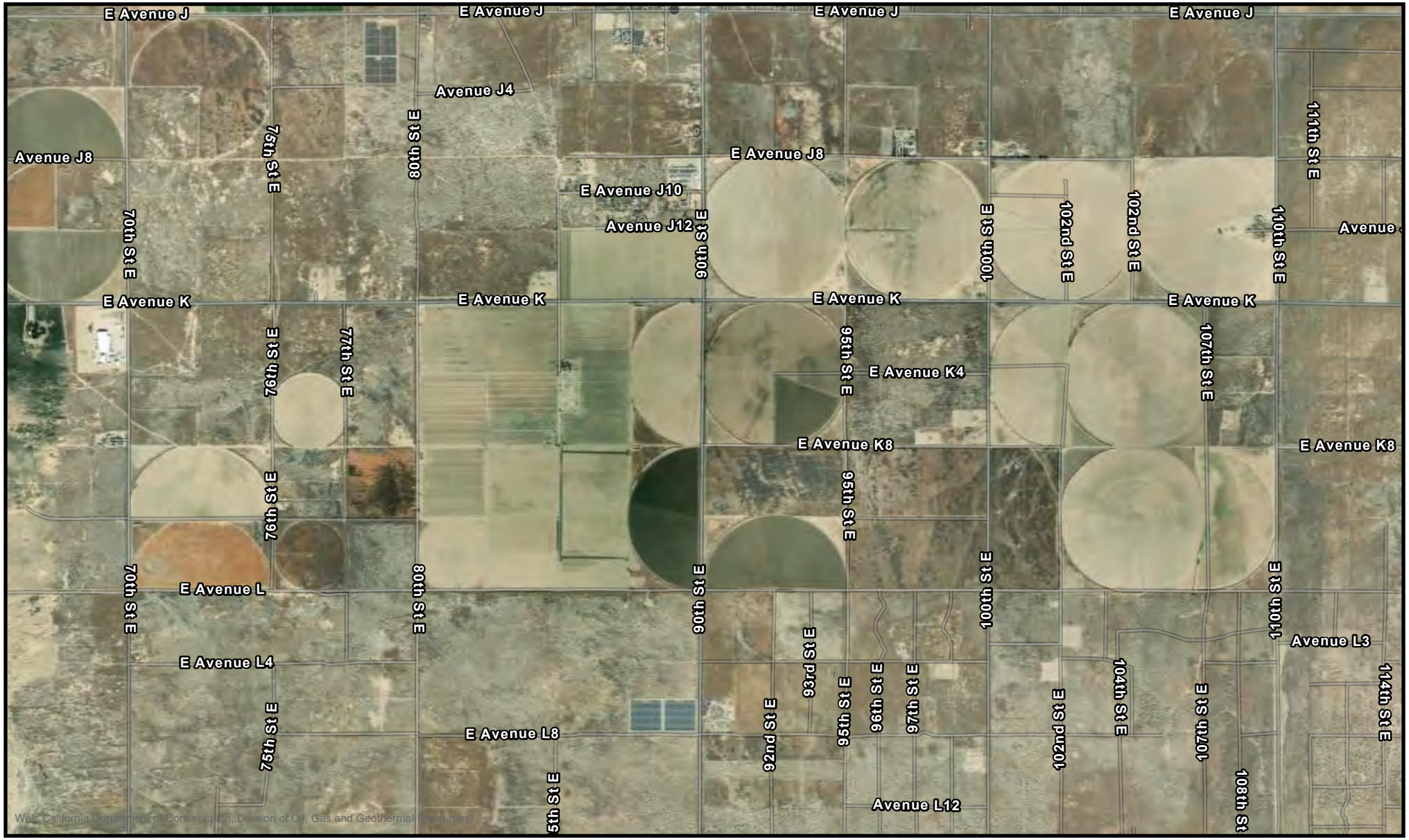
California Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary fault lines, prepared in 1975 by the United State Geological Survey. Additional information (also from 1975) regarding activity at specific fault lines comes from California's Preliminary Fault Activity Map prepared by the California Division of Mines and Geology.

STREET AND ADDRESS INFORMATION

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Appendix C

Regulatory Agency Records



0 0.85 1.7 mi

0 1 2 km

Powered by

3/20/2024

Well Status & Type

Geologic Energy Management Division
715 P Street, MS 1803
Sacramento, CA 95814
Phone: (916) 445-9686
Email: calgem_webmaster@conservation.ca.gov
www.conservation.ca.gov/calgem

California Natural Resources Agency
Department of Conservation

To apply for an expedited residential solar or energy storage permit, click here.

Search for Permits

Enter information below to search for permits:

- **Permit Number**
- **Permit Type**
- **Permit Address**
- **APN**

Note: Any permits older than the year 2000 may be available by submitting a Public Records Request.

Please visit: https://www.cityoflancasterca.org/our-city/departments-services/city-clerk/request-for-public-records to submit a request.

General Search

Enter your search criteria below.

Permit Number:

Permit Type: --Select--

Street No.: From - To

Direction: --Select--

Street Name:

Street Type: --Select--

Unit Type: --Select--

Unit No.:

City:

State:

Zip:

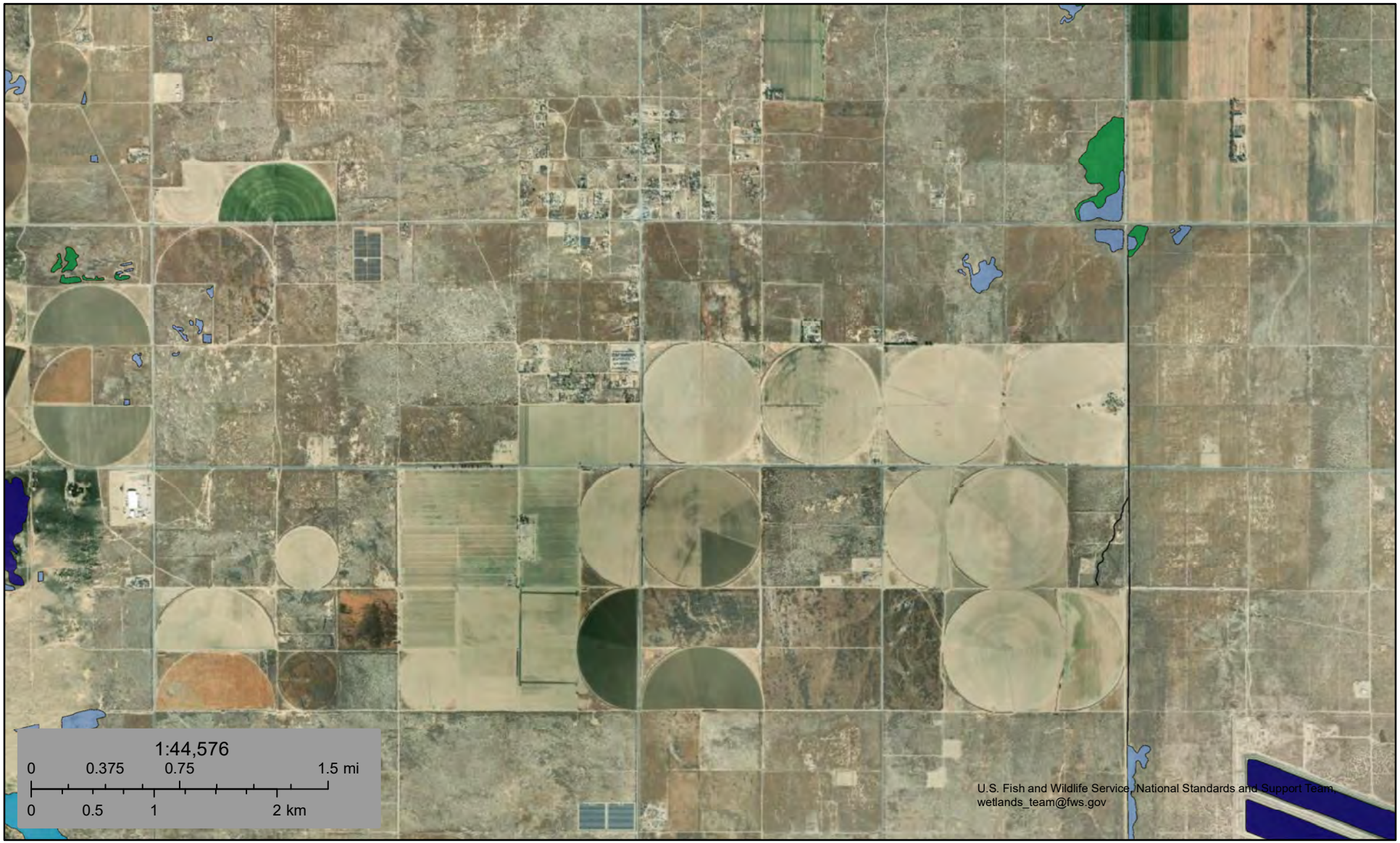
APN: 3378004008

Search

Notice:
Your search returned no results. Please modify your search and try again. In order to view information related to your permits, you need to be logged into your account. C1LEC

U.S. Fish and Wildlife Service
National Wetlands Inventory

Wetland Map



March 20, 2024

Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

Appendix D

Environmental Lien and AUL Search Report

Lancaster Parcel 3378-004-008
Not Reported
Lancaster, CA 93535

Inquiry Number: 7563392.20S
February 12, 2024

EDR Environmental Lien and AUL Search 1980

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Environmental Lien and AUL Search 1980

The EDR Environmental Lien and AUL Search 1980 report provides results from a search of available land title records for environmental cleanup liens and other activity and use limitations (AULs), such as engineering controls and institutional controls.

A network of professional, trained researchers, following established procedures, uses client supplied address and/or parcel information to:

- search for parcel number and/or legal description
- search for ownership information filed between 1980 and the most current publicly available date
- research official land title documents recorded at jurisdictional agencies such as recorders' offices, registries of deeds, county clerks' offices, etc.
- search for environmental encumbering instrument(s) filed between 1980 and the most current publicly available date
- provide a copy of any environmental encumbrance(s)
- provide a copy of the current deed when available

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

Property Archives, LLC researched and compiled the land title information contained in this EDR Environmental Lien and AUL Search 1980 report on behalf of EDR.



Property Archives

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EDR Environmental Lien and AUL Search 1980

TARGET PROPERTY INFORMATION

ADDRESS

Lancaster Parcel 3378-004-008
Not Reported
Lancaster, CA, 93535

PROPERTY DESCRIPTION

Parcel ID: 3378-004-008

Current Owner: BOLTHOUSE LAND COMPANY LLC

Legal Description: 79.09 ACS BEING EX OF ST S 80 ACS OF SW 1/4 OF LOT/SEC 29 BLK/DIV/TWN 7N REG/RNG10

FINDINGS SUMMARY

The following is a summary of information contained in the report. Additional details may be found in the Findings Detail section.

Parcel: 3378-004-008

Environmental Lien: Found ☐ Not Found ☒

Other Activity and Use Limitations (AULs): Found ☐ Not Found ☒

HISTORICAL CHAIN of TITLE FROM 1980			
RECORDED	**INSTRUMENT**	**GRANTEE**	**GRANTOR**
January 25, 2018	0080000	Bolthouse Land Company, LLC	Bolthouse Properties, LLC
September 09, 2005	2175606	Bolthouse Properties, LLC	Bolthouse Properties, Inc.
September 09, 2005	2175576	Bolthouse Properties, Inc.	WM Bolthouse Farms, Inc.
November 1, 2000	17111719	WM Bolthouse Farms, Inc.	DACK TRUST
April 12, 1990	0694375	DACK TRUST	Harvey & Jeanne Dack

RESEARCH SOURCE(S)

The following research sources were reviewed from January 01, 1980, to February 02, 2024. Based on available information evaluated by the title search professional, the jurisdiction does not require a search of judicial records to identify environmental liens.

EDR Environmental Lien and AUL Search 1980

FINDINGS DETAIL

Parcel: 3378-004-008

ENVIRONMENTAL LIEN

Environmental Lien: Found ☐ Not Found ☒

OTHER ACTIVITY AND USE LIMITATIONS (AULs)

Other AULs: Found ☐ Not Found ☒

MISCELLANEOUS DOCUMENTS

None

HISTORICAL CHAIN OF TITLE FROM 1980

Parcel ID: 3378-004-008

DEED TYPE:	Grant Deed
GRANTEE:	Bolthouse Land Company, LLC
GRANTOR:	Bolthouse Properties, LLC
DATE EXECUTED:	December 31, 2017
DATE RECORDED:	January 25, 2018
INST. NO.:	2018-0080000

DEED TYPE:	Grant Deed
GRANTEE:	Bolthouse Properties, LLC
GRANTOR:	Bolthouse Properties, Inc.
DATE EXECUTED:	June 03, 2005
DATE RECORDED:	September 09, 2005
INST. NO.:	2005-2175606

DEED TYPE:	Grant Deed
GRANTEE:	Bolthouse Properties, Inc.
GRANTOR:	WM Bolthouse Farms, Inc.
DATE EXECUTED:	June 06, 2005
DATE RECORDED:	September 09, 2005
BOOK / PAGE:	2005-2175576

EDR Environmental Lien and AUL Search 1980

DEED TYPE:	Grant Deed
GRANTEE:	WM Bolthouse Farms, Inc.
GRANTOR:	DACK TRUST
DATE EXECUTED:	September 14, 2000
DATE RECORDED:	November 1, 2000
INST. NO.:	2000-1711719

DEED TYPE:	Grant Deed
GRANTEE:	DACK TRUST
GRANTOR:	Harvey & Jeanne Dack
DATE EXECUTED:	April 12, 1990
DATE RECORDED:	April 12, 1990
INST. NO.:	1990-0694375

*Public records of Los Angeles County, California were searched from January 1, 1980 through February 2, 2024 and no other deeds vesting title in the subject property were located during the period searched.

EDR Environmental Lien and AUL Search 1980

CURRENT DEED EXHIBIT(S)

This page is part of your document - DO NOT DISCARD

20180080000

Recorded/Filed in Official Records
Recorder's Office, Los Angeles County,
California

01/25/18 AT 08:14AM

Pages:
0004

FEES:	37.00
TAXES:	0.00
OTHER:	0.00
SB2:	75.00
PAID:	112.00

LEADSHEET

201801252830039

00014769703

008841747

SEQ:
12

DAR - Mail (Intake)

THIS FORM IS NOT TO BE DUPLICATED

E621013

RECORDING REQUESTED BY:
Ticor Title Company of California

When Recorded Mail Document and Tax Statement To:

BOLTHOUSE LAND COMPANY, LLC
11601 BOLTHOUSE DRIVE,
SUITE 200
BAKERSFIELD, CA 93311

Document Number:14769703

Batch Number:8841747

APN: 3378-004-008

GRANT DEED

The undersigned grantor(s) declare(s)
Documentary transfer tax is $__**
[ ] computed on full value of property conveyed, or
[ ] computed on full value less value of liens or encumbrances remaining at time of sale,
[XX] Unincorporated Area County of **Los Angeles**
[ ] City of _____,

FOR A VALUABLE CONSIDERATION, receipt of which is hereby acknowledged,

Bolthouse Properties, LLC, a California limited liability company

hereby GRANT(S) to **Bolthouse Land Company, LLC, a California limited liability company**

the following described real property in the **unincorporated area**, County of **Los Angeles,** State of **California:**

SEE EXHIBIT "A" ATTACHED HERETO AND MADE A PART HEREOF

**Exempt under R&T 11925(d). The Grantors and the Grantees in this conveyance are comprised of the same parties who continue to hold the same proportionate interest in the property.

Dated: December 31, 2017

Bolthouse Properties, LLC,
a California limited liability company

By: Anthony L. Leggio, President

MAIL TAX STATEMENTS AS DIRECTED ABOVE

ACKNOWLEDGEMENT

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

STATE OF CALIFORNIA)
)ss.
COUNTY OF KERN)

On January 2, 2018 before me, Nancy E. Vogel, Notary Public, personally appeared ANTHONY L. LEGGIO, who proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

NANCY E. VOGEL
COMM. #2163483
NOTARY PUBLIC • CALIFORNIA
KERN COUNTY
My Comm. Exp. Sep 21, 2020

Nancy E Vogel
Notary Public

MAIL TAX STATEMENTS AS DIRECTED ABOVE

EXHIBIT "A"
LEGAL DESCRIPTION

The South Half of the Southwest Quarter of Section 29, Township 7 North, Range 10 West, San Bernardino Base and Meridian, in the Unincorporated Area of the County of Los Angeles, State of California, according to the Official Plat of said land.

Appendix E

Historical Research Documentation

Lancaster Parcel 3378-004-008

Not Reported

LANCASTER, CA 93535

Inquiry Number: 7563392.24

February 08, 2024

The EDR Aerial Photo Decade Package

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Aerial Photo Decade Package

02/08/24

Site Name:	Client Name:
Lancaster Parcel 3378-004-008	NV5
Not Reported	3777 Long Beach Blvd
LANCASTER, CA 93535	Long Beach, CA 90807-0000
EDR Inquiry # 7563392.24	Contact: Eric Fraske

Environmental Data Resources, Inc. (EDR) Aerial Photo Decade Package is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's professional researchers provide digitally reproduced historical aerial photographs, and when available, provide one photo per decade.

Search Results:

Year	Scale	Details	Source
2020	1"=500'	Flight Year: 2020	USDA/NAIP
2016	1"=500'	Flight Year: 2016	USDA/NAIP
2012	1"=500'	Flight Year: 2012	USDA/NAIP
2009	1"=500'	Flight Year: 2009	USDA/NAIP
2005	1"=500'	Flight Year: 2005	USDA/NAIP
2003	1"=500'	Flight Date: May 26, 2003	USDA
1994	1"=500'	Acquisition Date: May 28, 1994	USGS/DOQQ
1983	1"=500'	Flight Date: November 03, 1983	EDR Proprietary Brewster Pacific
1981	1"=500'	Flight Date: February 18, 1981	EDR Proprietary Brewster Pacific
1977	1"=500'	Flight Date: February 14, 1977	EDR Proprietary Brewster Pacific
1970	1"=500'	Flight Date: March 19, 1970	EDR Proprietary Brewster Pacific
1968	1"=500'	Flight Date: March 25, 1968	Teledyne
1953	1"=500'	Flight Date: April 15, 1953	USDA
1948	1"=500'	Flight Date: November 20, 1948	USDA
1940	1"=500'	Flight Date: May 02, 1940	USDA
1928	1"=500'	Flight Date: January 01, 1928	FAIR

When delivered electronically by EDR, the aerial photo images included with this report are for ONE TIME USE ONLY. Further reproduction of these aerial photo images is prohibited without permission from EDR. For more information contact your EDR Account Executive.

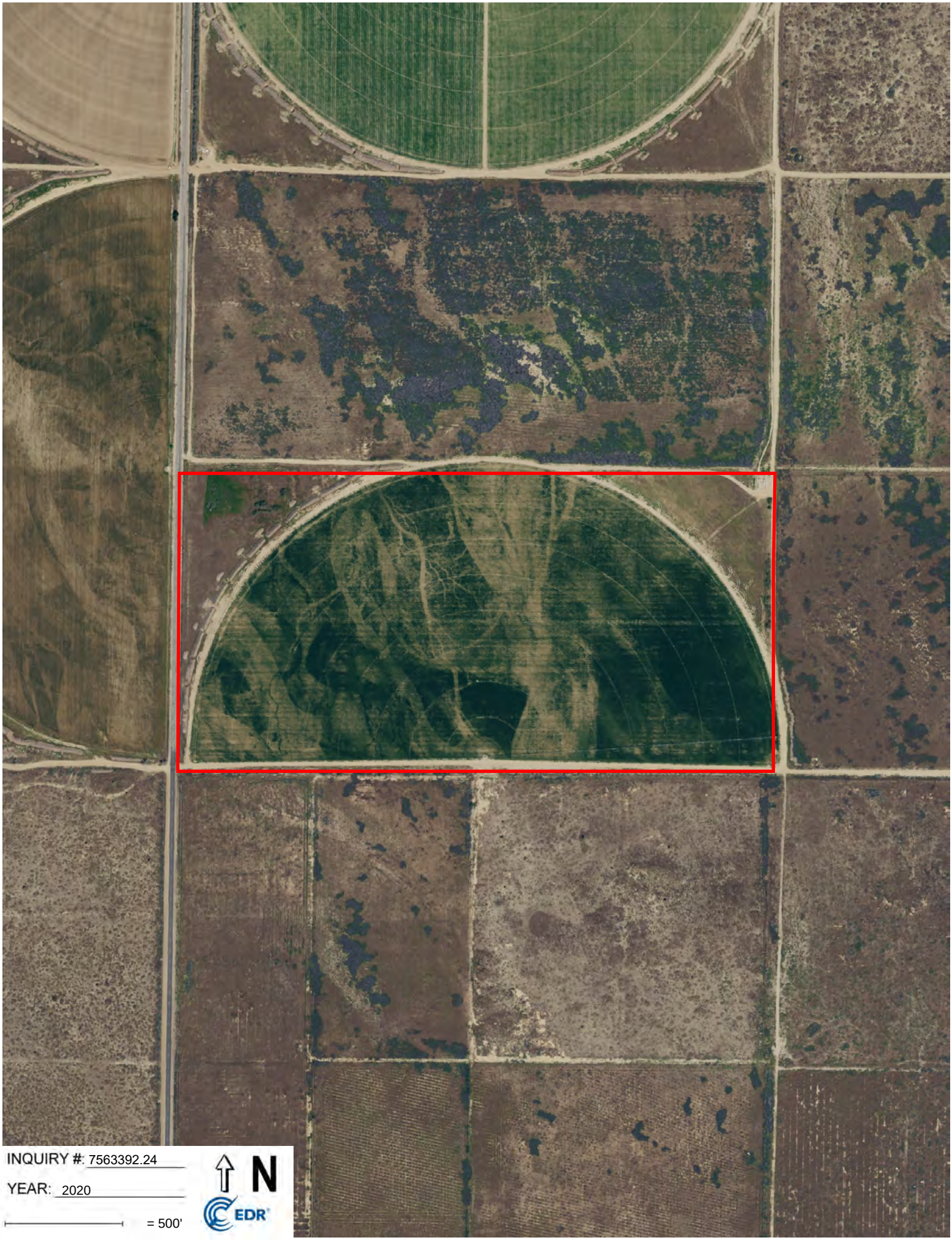
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INQUIRY #: 7563392.24
YEAR: 2020
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N
EDR



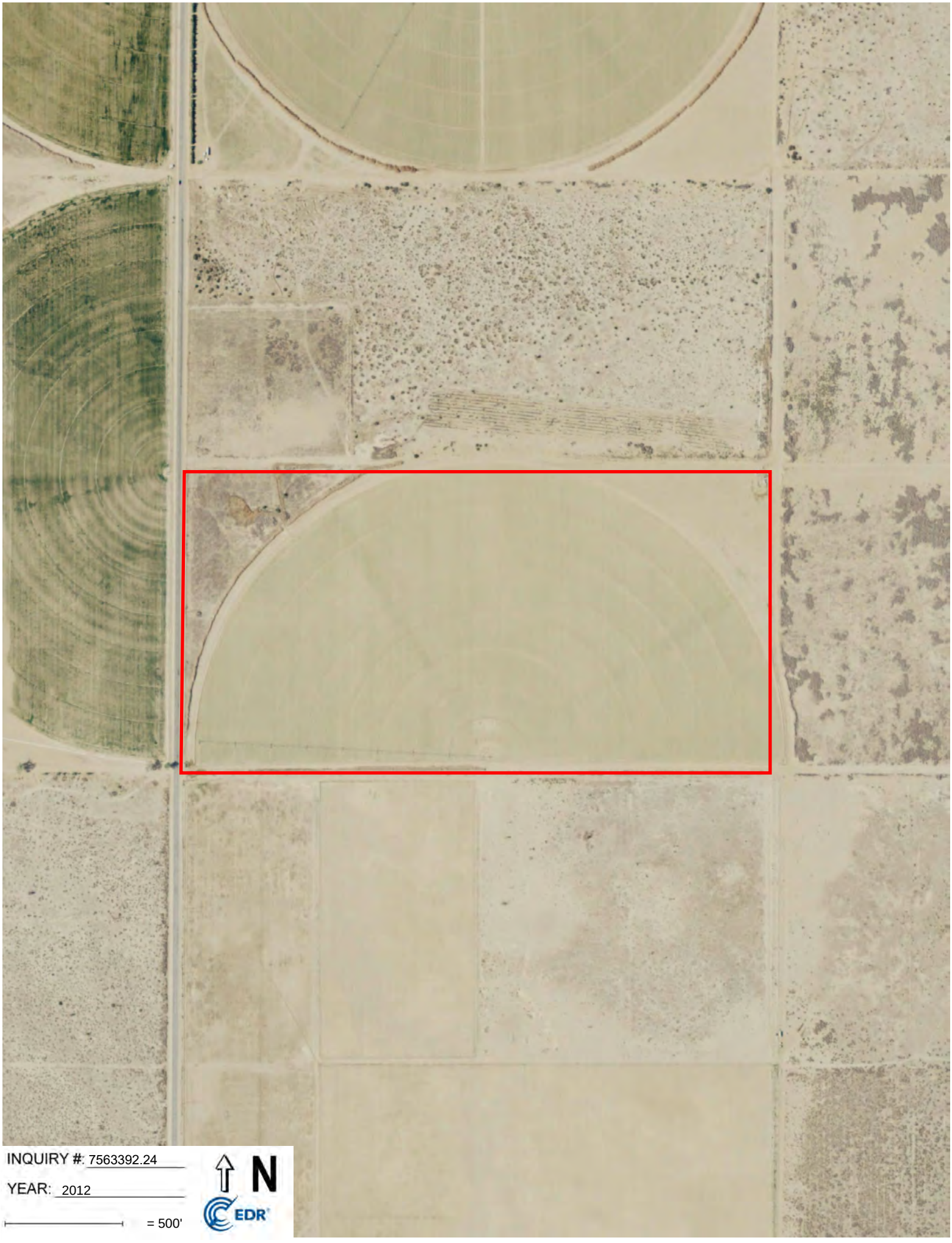
INQUIRY #: 7563392.24

YEAR: 2016

= 500'

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EDR



INQUIRY #: 7563392.24

YEAR: 2012

= 500'

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EDR



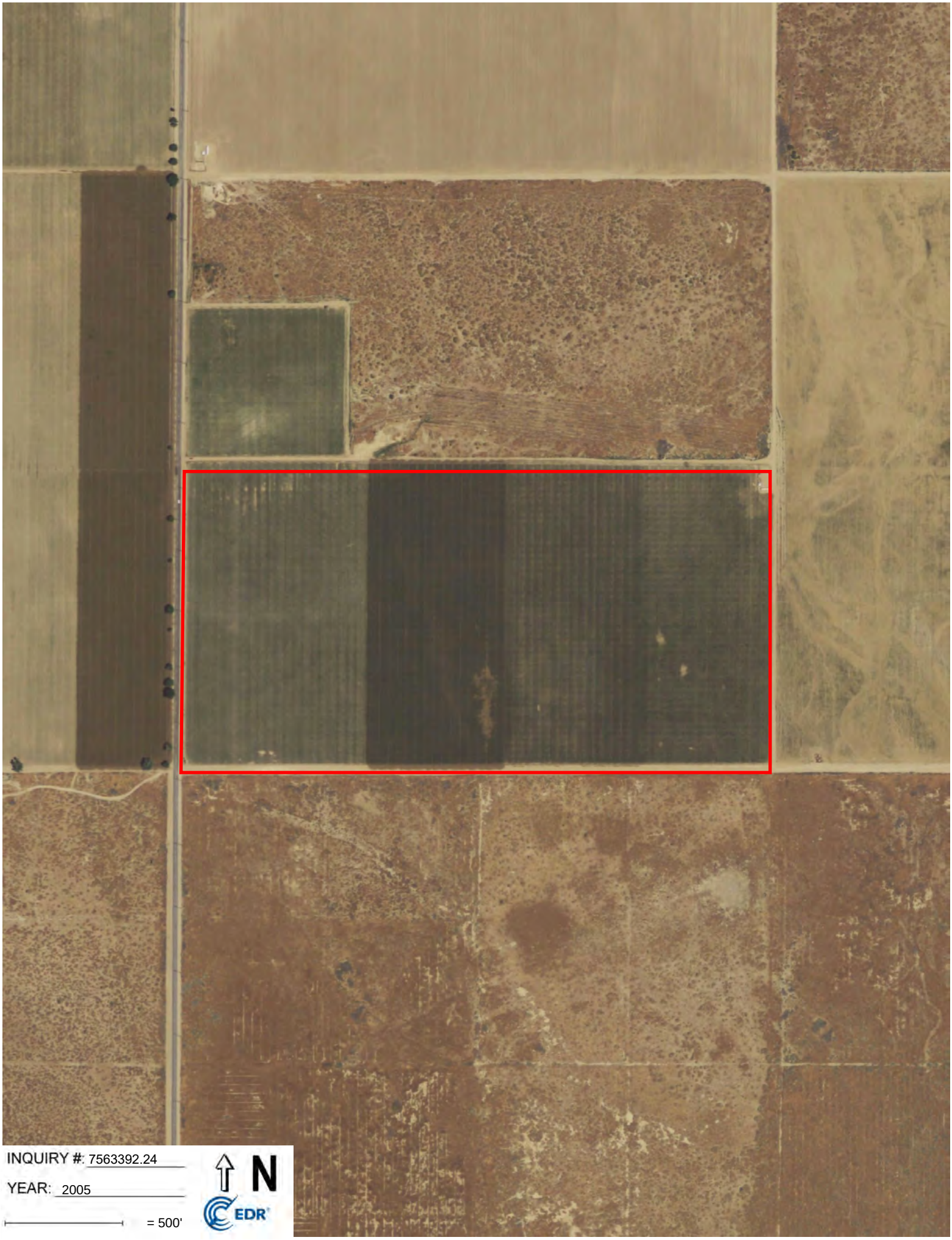
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YEAR: 2009

= 500'

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EDR


INQUIRY #: 7563392.24
YEAR: 2005
= 500'
N
EDR


INQUIRY #: 7563392.24
YEAR: 2003
= 500'
N
EDR


INQUIRY #: 7563392.24
YEAR: 1994
= 500'
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EDR



INQUIRY #: 7563392.24

YEAR: 1983

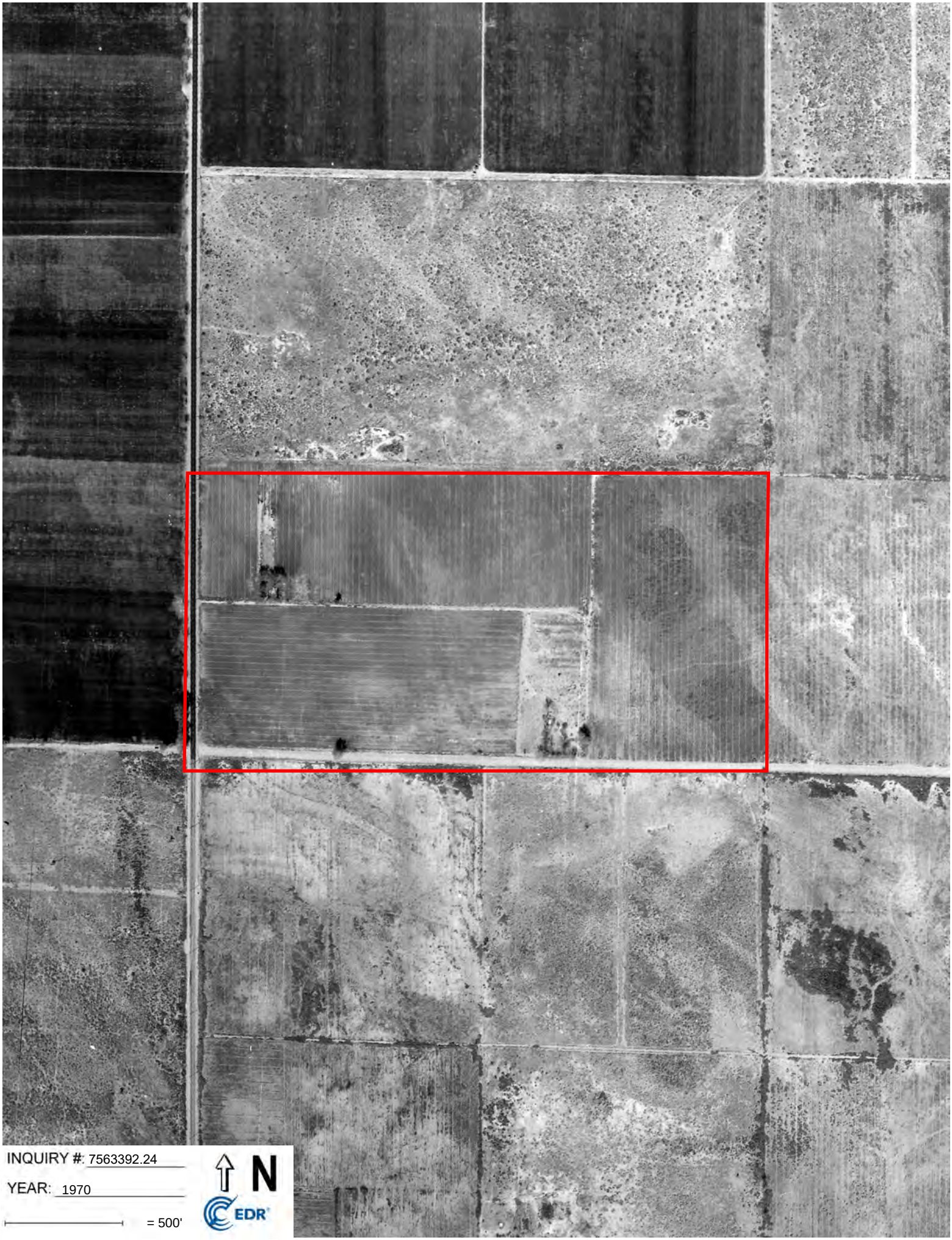
= 500'

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EDR


INQUIRY #: 7563392.24
YEAR: 1981
= 500'
N
EDR


INQUIRY #: 7563392.24
YEAR: 1977
= 500'
N
EDR


INQUIRY #: 7563392.24
YEAR: 1970
= 500'
N
EDR


INQUIRY #: 7563392.24
YEAR: 1968
= 500'
N
EDR



INQUIRY #: 7563392.24

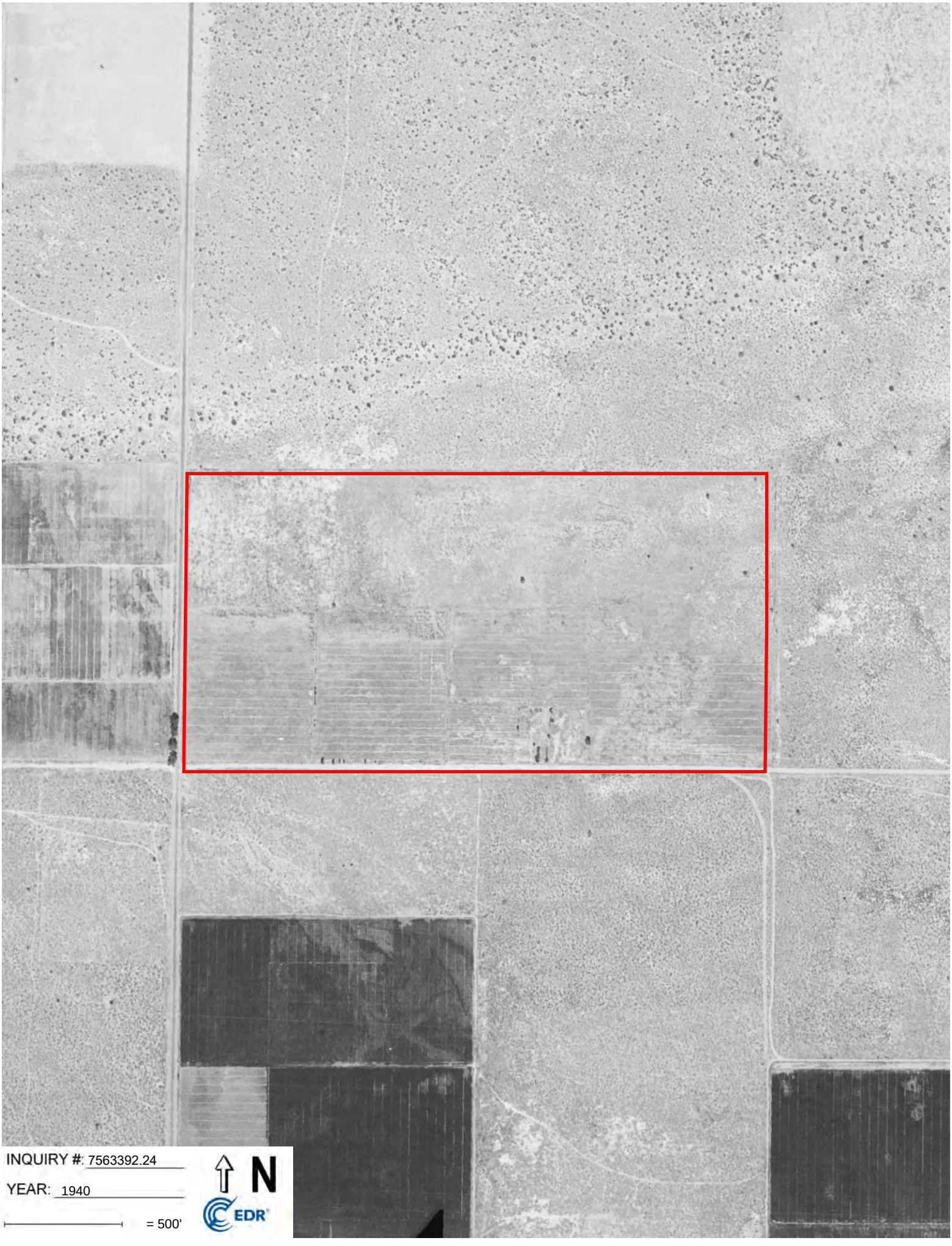
YEAR: 1953

= 500'

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EDR


INQUIRY #: 7563392.24
YEAR: 1948
= 500'
N
EDR



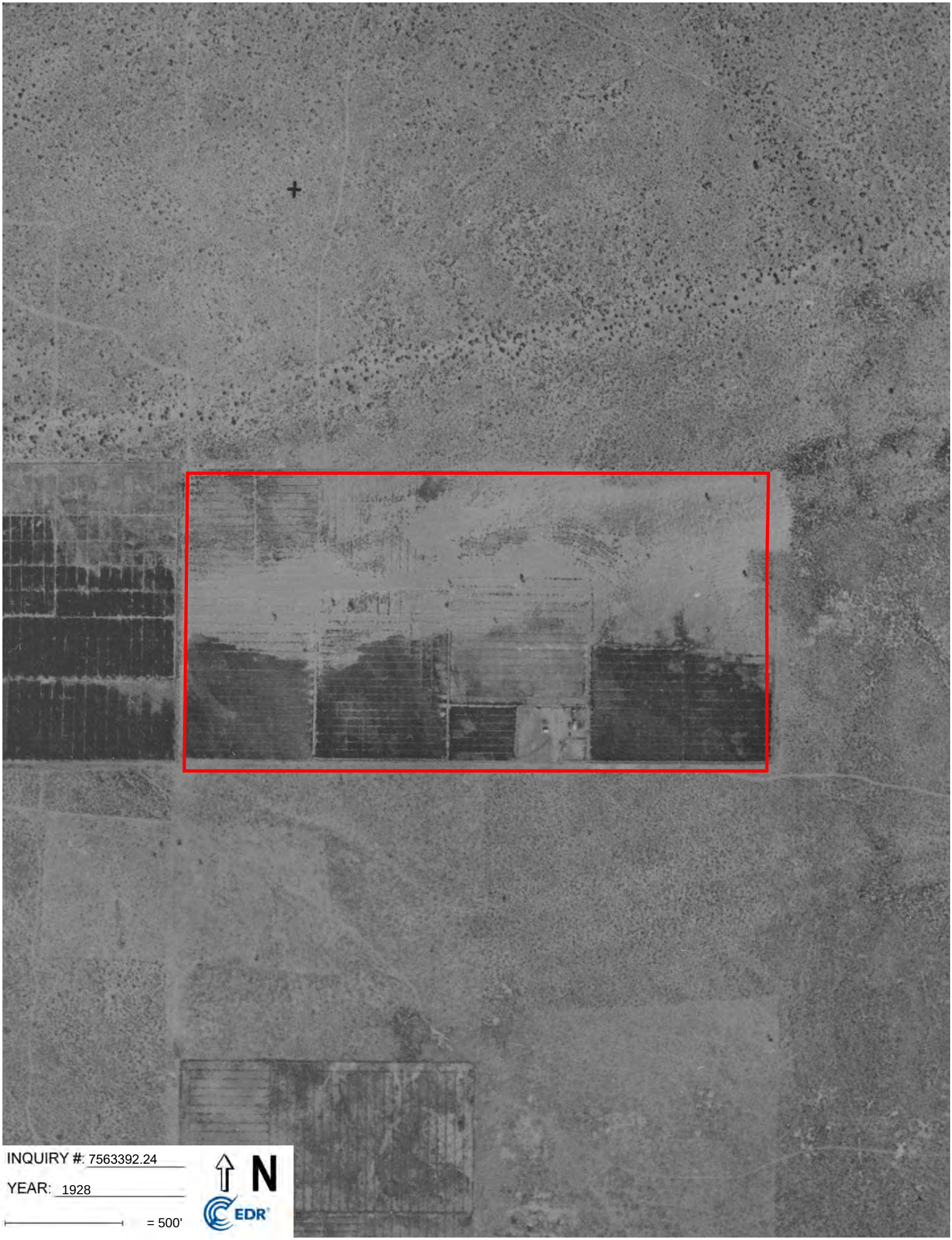
INQUIRY #: 7563392.24

YEAR: 1940

= 500'

N

EDR



INQUIRY #: 7563392.24

YEAR: 1928

= 500'

N

EDR

Lancaster Parcel 3378-004-008
Not Reported
LANCASTER, CA 93535

Inquiry Number: 7563392.17
February 09, 2024

The EDR-City Directory Image Report

EDR® Environmental Data Resources Inc

6 Armstrong Road
Shelton, CT 06484
800.352.0050
www.edrnet.com

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Executive Summary

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City Directory Images

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EXECUTIVE SUMMARY

DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Report is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Report includes a search of available business directory data at approximately five year intervals.

RECORD SOURCES

The EDR City Directory Report accesses a variety of business directory sources, including Haines, InfoUSA, Polk, Cole, Bresser, and Stewart. Listings marked as EDR Digital Archive access Cole and InfoUSA records. The various directory sources enhance and complement each other to provide a more thorough and accurate report.

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RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. A check mark indicates where information was identified in the source and provided in this report.

Year	*Target Street*	*Cross Street*	*Source*
2020	☑	☐	EDR Digital Archive
2017	☐	☐	Cole Information
2014	☑	☐	Cole Information
2010	☑	☐	Cole Information
2005	☑	☐	Cole Information
2000	☑	☐	Cole Information
1995	☑	☐	Cole Information
1992	☑	☐	Cole Information
1987	☑	☐	Haines Criss-Cross Directory
1982	☑	☐	Haines Criss-Cross Directory
1976	☑	☐	Haines Criss-Cross Directory
1971	☑	☐	B & G City Directory

FINDINGS

TARGET PROPERTY STREET

Not Reported
LANCASTER, CA 93535

Year	*CD Image*	*Source*	
E AVENUE L			
2020	pg A1	EDR Digital Archive	
2017	-	Cole Information	Target and Adjoining not listed in Source
2014	pg A2	Cole Information	
2010	pg A3	Cole Information	
2005	pg A4	Cole Information	
2000	pg A5	Cole Information	
1995	pg A6	Cole Information	
1992	pg A8	Cole Information	
1987	pg A9	Haines Criss-Cross Directory	
1982	pg A10	Haines Criss-Cross Directory	
1976	pg A11	Haines Criss-Cross Directory	
1976	pg A12	Haines Criss-Cross Directory	
1971	pg A13	B & G City Directory	
E L AVE			
1995	pg A7	Cole Information	

FINDINGS

CROSS STREETS

No Cross Streets Identified

City Directory Images

Target Street	Cross Street	Source
✓	-	EDR Digital Archive

E AVENUE L 2020

421	MARISSA ECHEVERRIA
711	ARTUR NAZARIAN
	DEWEY LUSTER
721	ANITA VILLA
	MOSES VILLA
	PAULA VILLA
790	BROWNLOW PEAR
	PAULA BROWNLOW
4023	PAUL FALASSI
4039	MARK HANLON
4209	HAROLD MOSS
4237	RICHARD MOSS
	RUSSELL FRISBIE
5119	BENJAMIN DAYAN
	FLORA DAYAN
17135	BURSALYAN VICK

Target Street	Cross Street	Source
✓	-	Cole Information

E AVENUE L 2014

200	GONZALEZ, CARLOS M
210	CHAPLYAGIN, ALEXANDER
	WESTERN EQUIPMENT SERVICE
421	BUSINESS CENTER CHEVRON
	CHEVRON STATION LANCASTER
	M & G BURGERS
711	LUSTER, DEWEY E
721	M V FENCE CO
	VILLA, MOSES U
	VILLAS, MOISES
790	BROWNLOW, ERICH J
4023	OCCUPANT UNKNOWN,
4039	SHAVER, CHRISTOPHER D
4209	OCCUPANT UNKNOWN,
4237	FRISBIE, RUSSELL
5125	OCCUPANT UNKNOWN,
5517	PARRISH, MARY E
17135	VICK, BURSALYAN

Target Street	Cross Street	Source
✓	-	Cole Information

E AVENUE L 2010

210	WESTERN EQUIPMENT SVC CO
421	BUSINESS CENTER CHEVRON
	TASTEE SUBS INC
711	OCCUPANT UNKNOWN,
715	REAL STONE SOURCE
721	M V FENCE
	SANCHEZ, SALVADOR V
790	BROWNLOW, JIM D
4023	FALASSI, PAUL L
4039	SHAVER, CHRISTOPHER D
4209	LAYMAN, JANET
4237	FRISBIE, RUSSELL
5125	OCCUPANT UNKNOWN,
5517	PARRISH, MARY E
17105	LUIS, ARMANDO
17135	OCCUPANT UNKNOWN,

Target Street	Cross Street	Source
✓	-	Cole Information

E AVENUE L 2005

210	ADVANCED SIGNS BY NICK
	CONCEPTS IN CABINETRY
	PRECISION WELDING
	SHORT RUN PRINTED PACKAGING
421	BUSINESS CENTER CHEVRON
	QUIZNOS SUBS
	QUIZNOS, SUBS
711	LUSTER, JAMES E
	YOGIS WOOD BY DESIGN
721	SANCHEZ, SALVADOR V
790	OCCUPANT UNKNOWN,
4023	FALASSI, PAUL L
4039	OCCUPANT UNKNOWN,
4209	OCCUPANT UNKNOWN,
4237	OCCUPANT UNKNOWN,
5125	MYERS, ARNOLD
5517	PARRISH, MARY E
17105	LUIS, ARMANDO

Target Street	Cross Street	Source
✓	-	Cole Information

E AVENUE L 2000

711	LUSTER, DEWEY
721	SANCHEZ, S V
741	OCCUPANT UNKNOWN,
790	OCCUPANT UNKNOWN,

Target Street	Cross Street	Source
✓	-	Cole Information

E AVENUE L 1995

210 CONCEPTS IN CABINETRY
CONTRACTORS SAFETY & EQUIPMENT
SERRIFILE INC
5024 A R LESHIN

Target Street	Cross Street	Source
✓	-	Cole Information

E L AVE 1995

241	KNIGHT, A
624	OCCUPANT UNKNOWNN
711	STRENG, HARRY
749	THOMPSON, CEOLA
790	BROWNLOW, ERICH
4023	FALASSI, PAUL
4039	MAULDIN, DALE
4209	MOSS, HAROLD
4237	OCCUPANT UNKNOWNN
5125	OCCUPANT UNKNOWNN
5517	MARTIN, ELORA

Target Street	Cross Street	Source
✓	-	Cole Information

E AVENUE L 1992

120	WRIGHTS
125	ALPHA LANDSCAPE
210	CONTRCTRS SFTY&EQP
	GEHRCO MFG
	SERRIFILE INC
212	BUIDERS CABINETS
323	ALEX PIVOVAROFF
	PIVOVAROFF ALEX JR
507	ARROW CONSTRUCTION
520	MOBILE AUTO REPAIR
747	FRAZIER DEVELOPMENT
4023	FALASSI, PAUL
4209	MOSS, MARION
5024	GUARDADO, RAMIRO
5125	PESINA, DEMECIO
5517	MARTIN, ELORA

Target Street	Cross Street	Source
✓	-	Haines Criss-Cross Directory

E AVENUE L 1987

AVENUE L EAST 93535
LANCASTER

125	DOHERTY John	949-3389 +7
	MERTZ Deni	942-1539 6
145	★RADAR HALL MFG CO	945-5870 +7
210	★BOLT FASTENER STUD	945-1798 +7
	★DESIGN ENTERPRISES	949-6695 +7
	★ROYAL SUITE WATERBD	942-16B7 6
	★SERRIFILE INC	945-0713 3
259	XXXX	00
273	XXXX	00
624	★APOLLO REFRIG CO	94B-7078 +7
	HANBONG John	948-9929 +7
721	HALLEN Robt J	945-4023 2
1254	XXXX	00
4023	FALASSI Carol	946-1543
	FALASSI Paul	946-1543
4039	MAULDIN Dale	946-3031 +7
4209	MOSS Marion	946-1817
5024	LESHIN Sol A	946-1231
5125	CHUC Carlos F	946-2655 3
5517	HARRIS Margaret	946-2618 6
8717	BYRNES Don	946-1461 0
17135	GONZALEZ P J	946-2410 9
★	6 BUS 16 RES	7 NEW

Target Street	Cross Street	Source
✓	-	Haines Criss-Cross Directory

E AVENUE L 1982

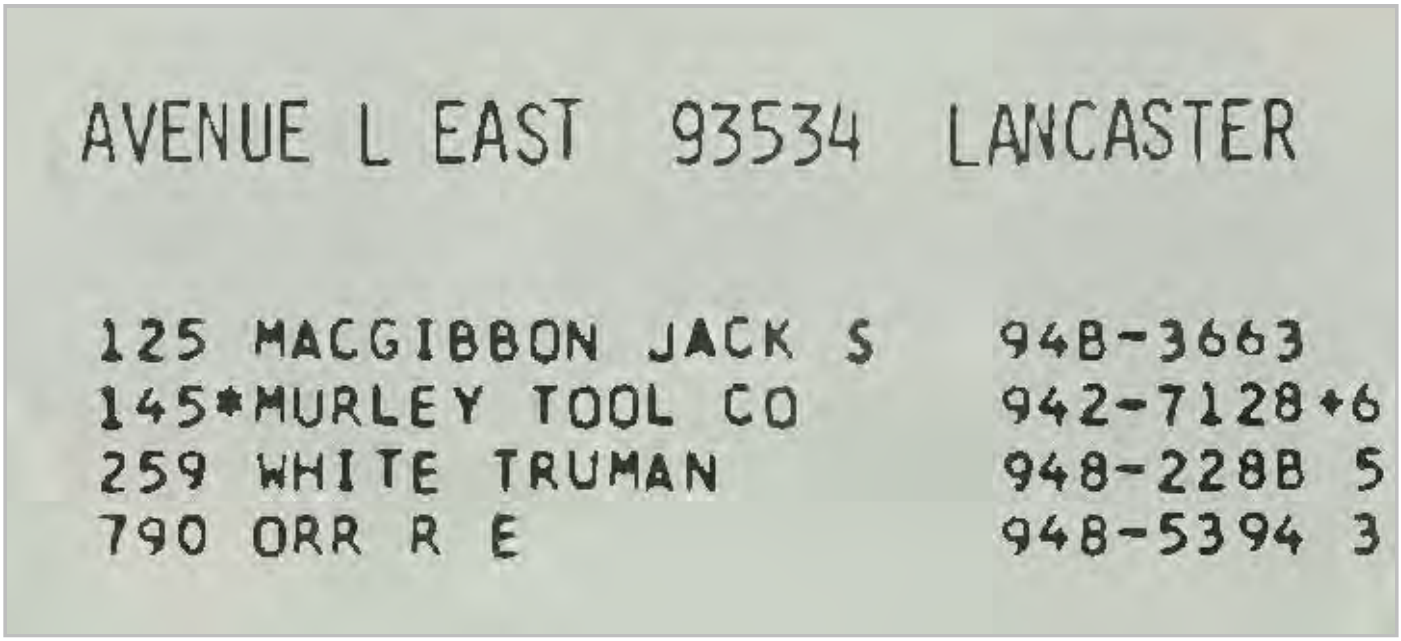
AVENUE L EAST 93535
LANCASTER

145	A V MARBLE&TILE INC	945-5668 +2
210	DEE DEE CRAFTS INC	945-1847 +2
259	WHITE TRUMAN	948-2288 5
273	XXXX	00
721	HALLEN ROBT J	945-4023 +2
747	XXXX	00
790	XXXX	00
1254	ALLIED VAN LINES	948-4541 7
1301	HOAGLAND DARWIN	942-3129 7
1443	ALEXANDER B L	942-9835 9
	HOLMBERG MAXINE M	942-1854 7
2027	A V TRAILER TRNSPRT	942-5237
2059	RAY BRYAN	942-2859 0
4023	FALASSI PAUL	945-1543 6
4039	CLARK HUCH R	946-1165
4209	MOSS MARION	946-1817
4237	REDDICK ROBT	946-1470 +2
5024	LESHIN SOL A	946-1231
5125	XXXX	00
5517	HARRIS MARGARET	946-1406 9
8717	BYRNES DON	946-1461 0
17135	GONZALEZ P J	946-2410 9

★ 4 BUS 18 RES 4 NEW

Target Street	Cross Street	Source
✓	-	Haines Criss-Cross Directory

E AVENUE L 1976



AVENUE L EAST 93534 LANCASTER

125 MACGIBBON JACK S 948-3663
145*MURLEY TOOL CO 942-7128 +6
259 WHITE TRUMAN 948-228B 5
790 ORR R E 948-5394 3

Target Street	Cross Street	Source
✓	-	Haines Criss-Cross Directory

E AVENUE L 1976

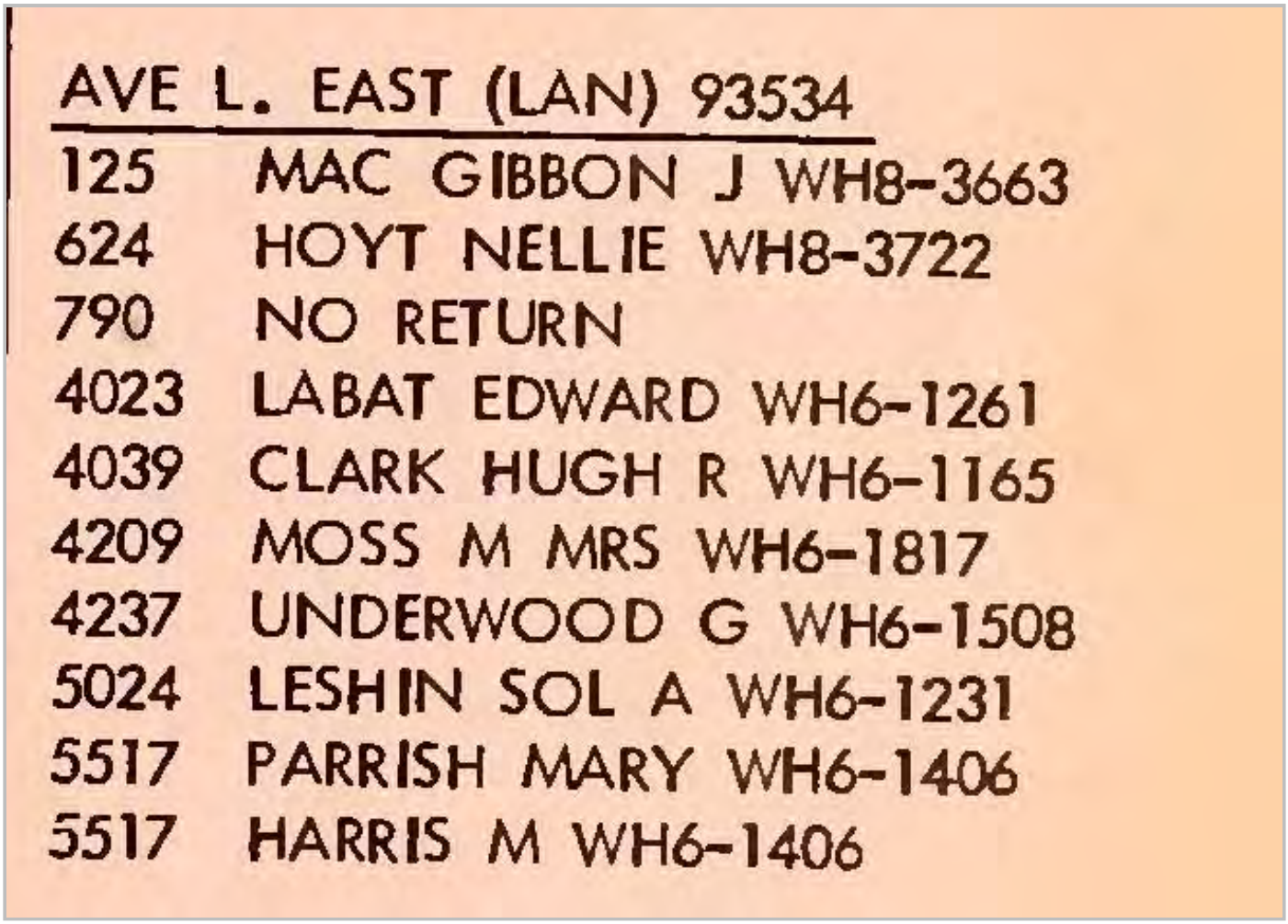
..AVENUE L E 93534 CONT..

1617	ERWIN NOVA N	942-8794+6
2059	WINTEROWO RALPH T	948-9232+6
4023	FALASSI PAUL	946-1543+6
4039	CLARK HUGH R	946-1165
4209	MOSS HAROLO	946-2163+6
	MOSS MILTON MRS	946-1817
4237	UNOERWOOO GLENN	946-1508
5024	LESHIN SOL A	946-1231
5517	HARRIS MARGARET	946-2154+6
	MORGAN MARTIN	946-2154 5
8717	CURLIN TOMMY E	946-1232+6
	GUZMAN JOSE	946-2392 5

* 1 BUS 15 RES 7 NEW

Target Street	Cross Street	Source
✓	-	B & G City Directory

E AVENUE L 1971



AVE L. EAST (LAN) 93534

125 MAC GIBBON J WH8-3663
624 HOYT NELLIE WH8-3722
790 NO RETURN
4023 LABAT EDWARD WH6-1261
4039 CLARK HUGH R WH6-1165
4209 MOSS M MRS WH6-1817
4237 UNDERWOOD G WH6-1508
5024 LESHIN SOL A WH6-1231
5517 PARRISH MARY WH6-1406
5517 HARRIS M WH6-1406

Lancaster Parcel 3378-004-008

Not Reported

LANCASTER, CA 93535

Inquiry Number: 7563392.16

February 08, 2024

EDR Historical Topo Map Report

with QuadMatch™

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Historical Topo Map Report

02/08/24

Site Name:	Client Name:
Lancaster Parcel 3378-004-008	NV5
Not Reported	3777 Long Beach Blvd
LANCASTER, CA 93535	Long Beach, CA 90807-0000
EDR Inquiry # 7563392.16	Contact: Eric Fraske

EDR Topographic Map Library has been searched by EDR and maps covering the target property location as provided by NV5 were identified for the years listed below. EDR's Historical Topo Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDRs Historical Topo Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the late 1800s.

Search Results:		*Coordinates:*	
P.O.#	UPRD-23-12039	**Latitude:**	34.662609 34° 39' 45" North
Project:	Lancaster Parcel 3378-004-008	**Longitude:**	-117.965323 -117° 57' 55" West
		UTM Zone:	Zone 11 North
		UTM X Meters:	411551.15
		UTM Y Meters:	3836052.52
		Elevation:	2504.60' above sea level

Maps Provided:

2021	1945
2018	1933
2015	1930
2012	
1992	
1989	
1974	
1957	

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Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

2021 Source Sheets



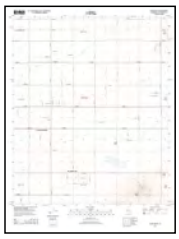
Alpine Butte
2021
7.5-minute, 24000

2018 Source Sheets



Alpine Butte
2018
7.5-minute, 24000

2015 Source Sheets



Alpine Butte
2015
7.5-minute, 24000

2012 Source Sheets



Alpine Butte
2012
7.5-minute, 24000

Topo Sheet Key

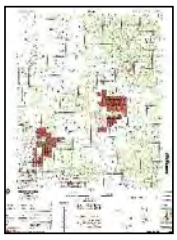
This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1992 Source Sheets



Alpine Butte
1992
7.5-minute, 24000
Aerial Photo Revised 1989

1989 Source Sheets



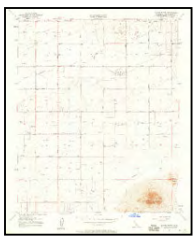
HI VISTA
1989
15-minute, 50000

1974 Source Sheets



Alpine Butte
1974
7.5-minute, 24000
Aerial Photo Revised 1974

1957 Source Sheets



Alpine Butte
1957
7.5-minute, 24000
Aerial Photo Revised 1955

Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1945 Source Sheets



Alpine Butte
1945
15-minute, 62500
Aerial Photo Revised 1943

1933 Source Sheets



West Alpine Butte
1933
7.5-minute, 24000

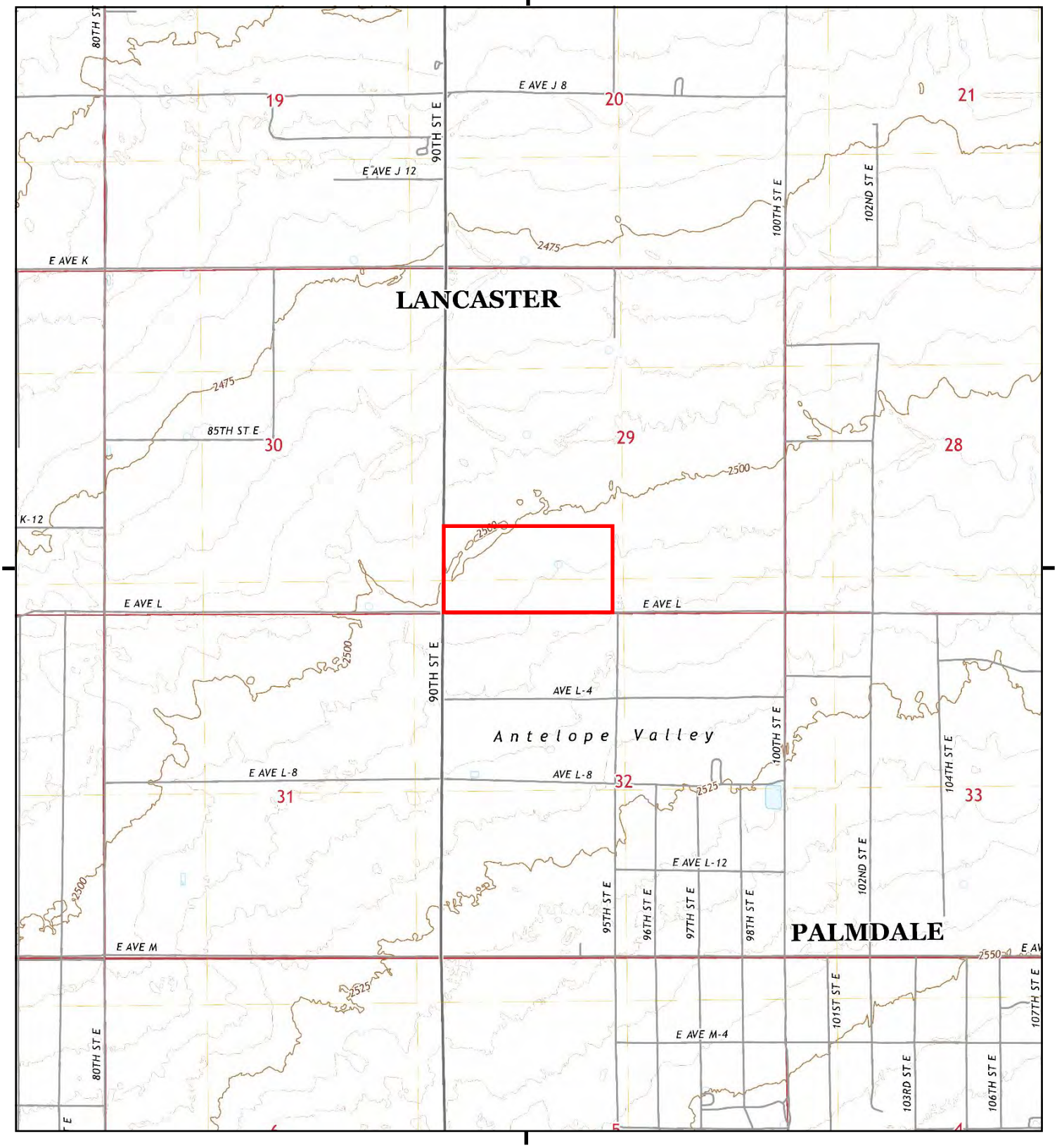
1930 Source Sheets



West Alpine Butte
1930
7.5-minute, 24000

Historical Topo Map

2021



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

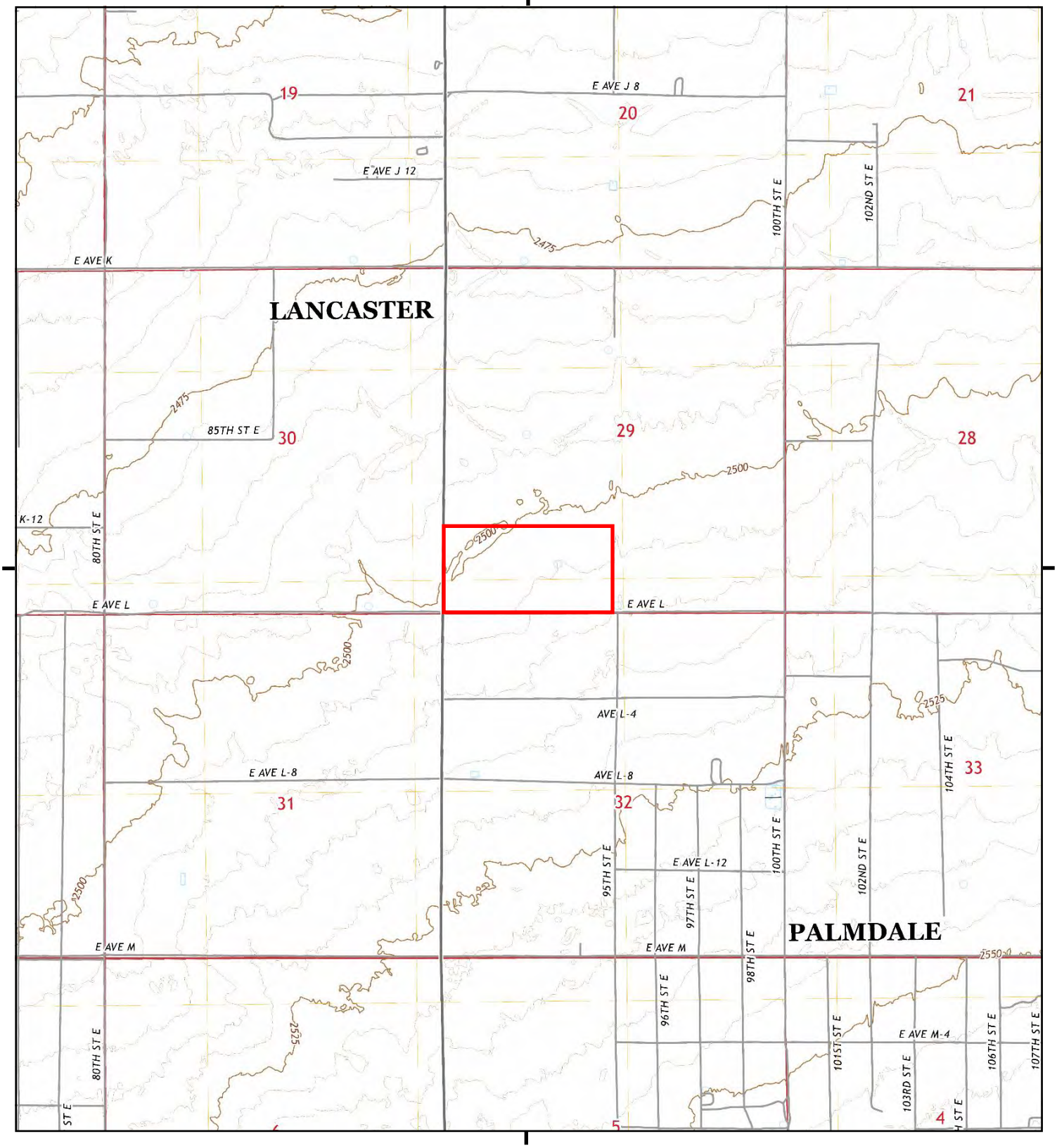
TP, Alpine Butte, 2021, 7.5-minute

SITE NAME: Lancaster Parcel 3378-004-008
ADDRESS: Not Reported
LANCASTER, CA 93535
CLIENT: NV5

N

Historical Topo Map

2018



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

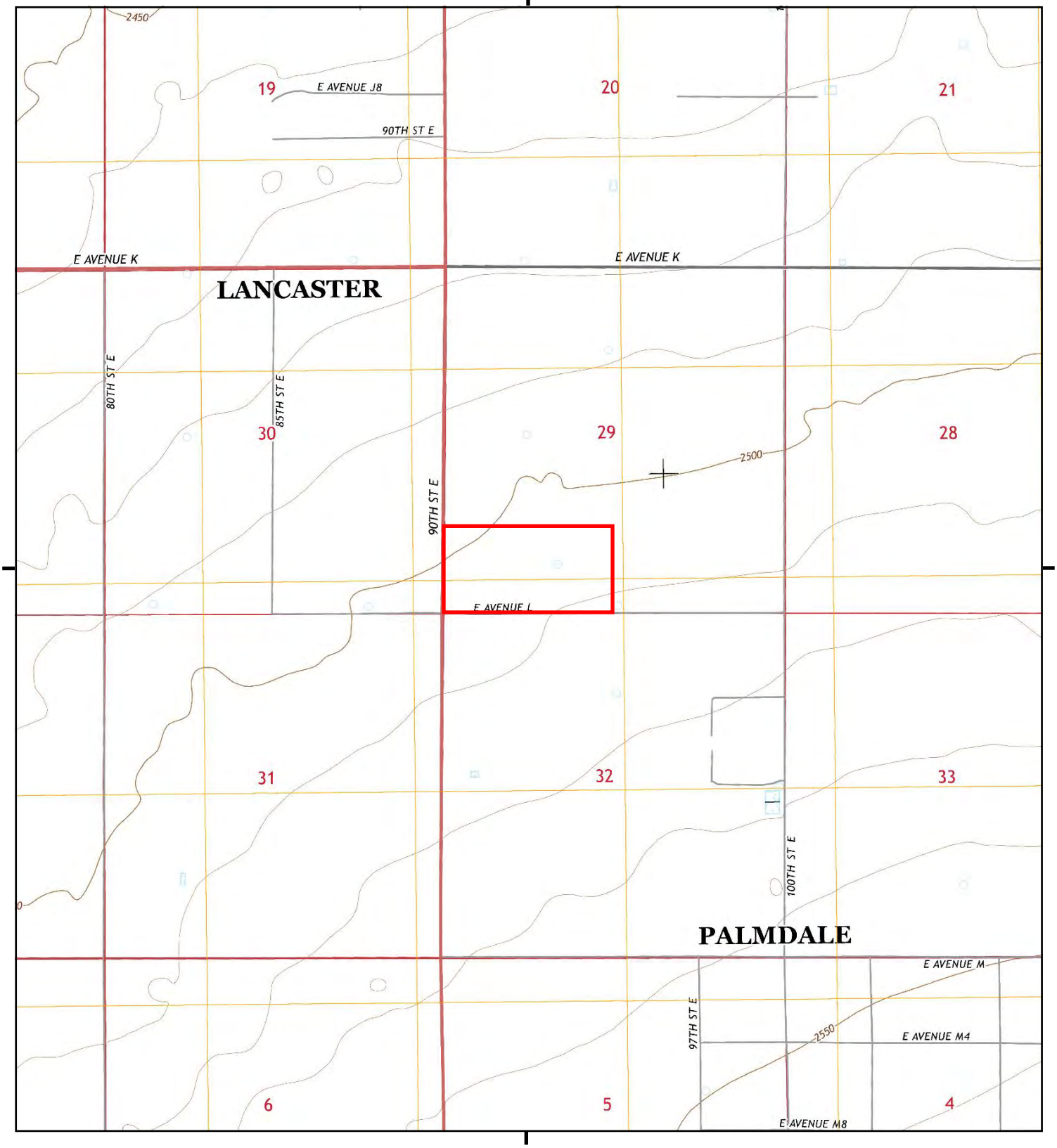
TP, Alpine Butte, 2018, 7.5-minute

SITE NAME: Lancaster Parcel 3378-004-008
ADDRESS: Not Reported
LANCASTER, CA 93535
CLIENT: NV5

N

Historical Topo Map

2015



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

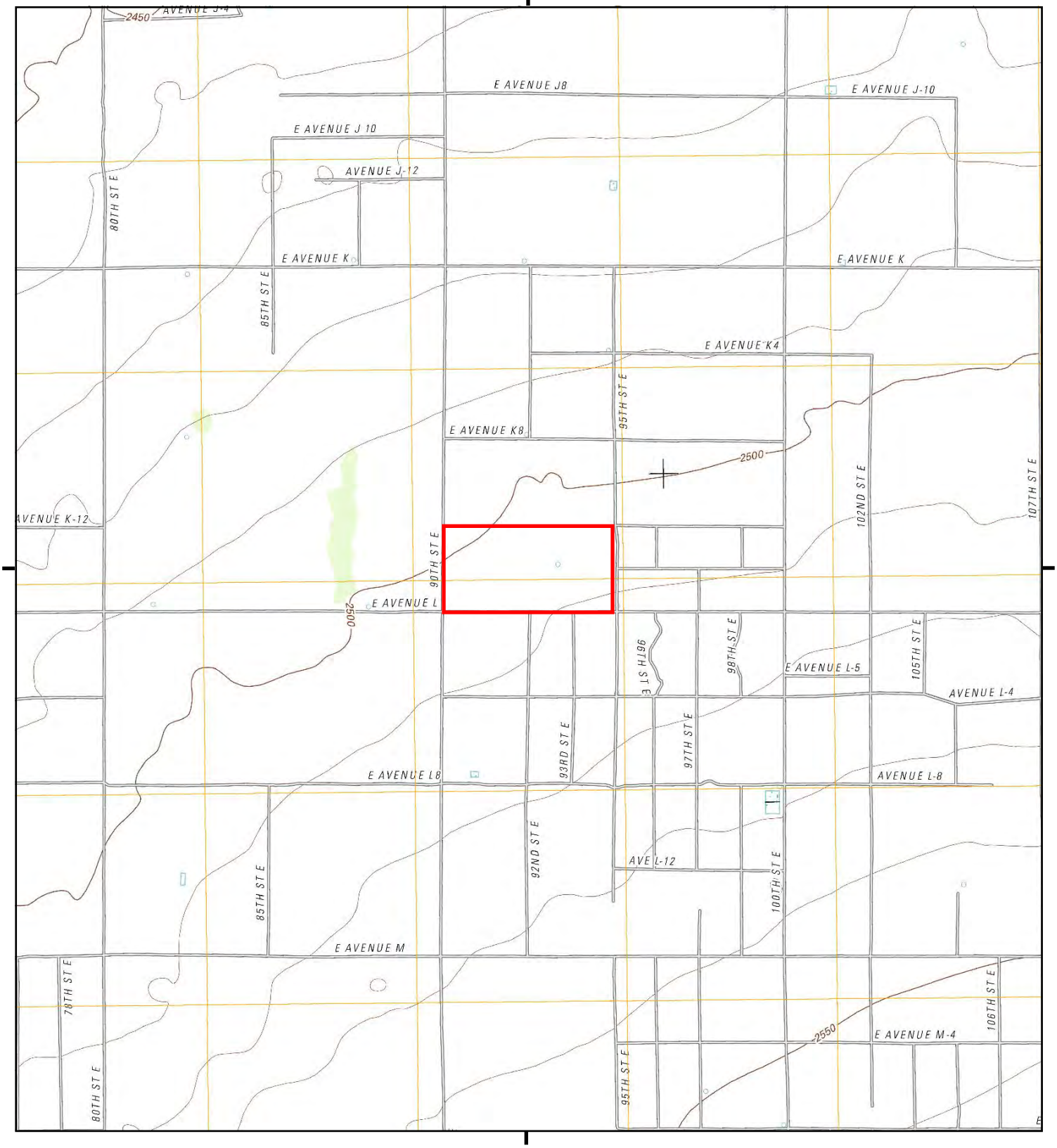
TP, Alpine Butte, 2015, 7.5-minute

SITE NAME: Lancaster Parcel 3378-004-008
ADDRESS: Not Reported
LANCASTER, CA 93535
CLIENT: NV5

N

Historical Topo Map

2012



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

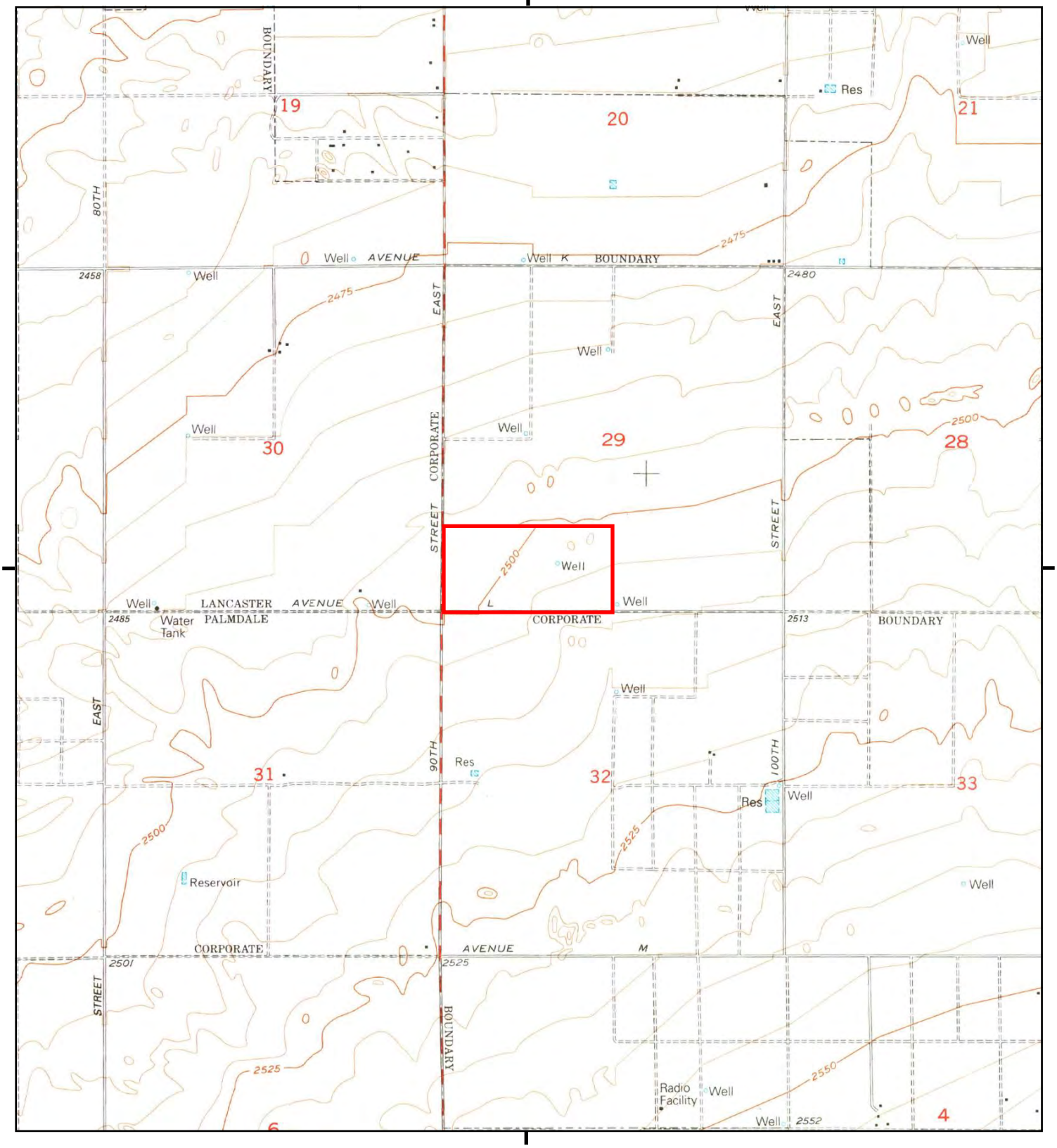
TP, Alpine Butte, 2012, 7.5-minute

SITE NAME: Lancaster Parcel 3378-004-008
ADDRESS: Not Reported
LANCASTER, CA 93535
CLIENT: NV5

N

Historical Topo Map

1992



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

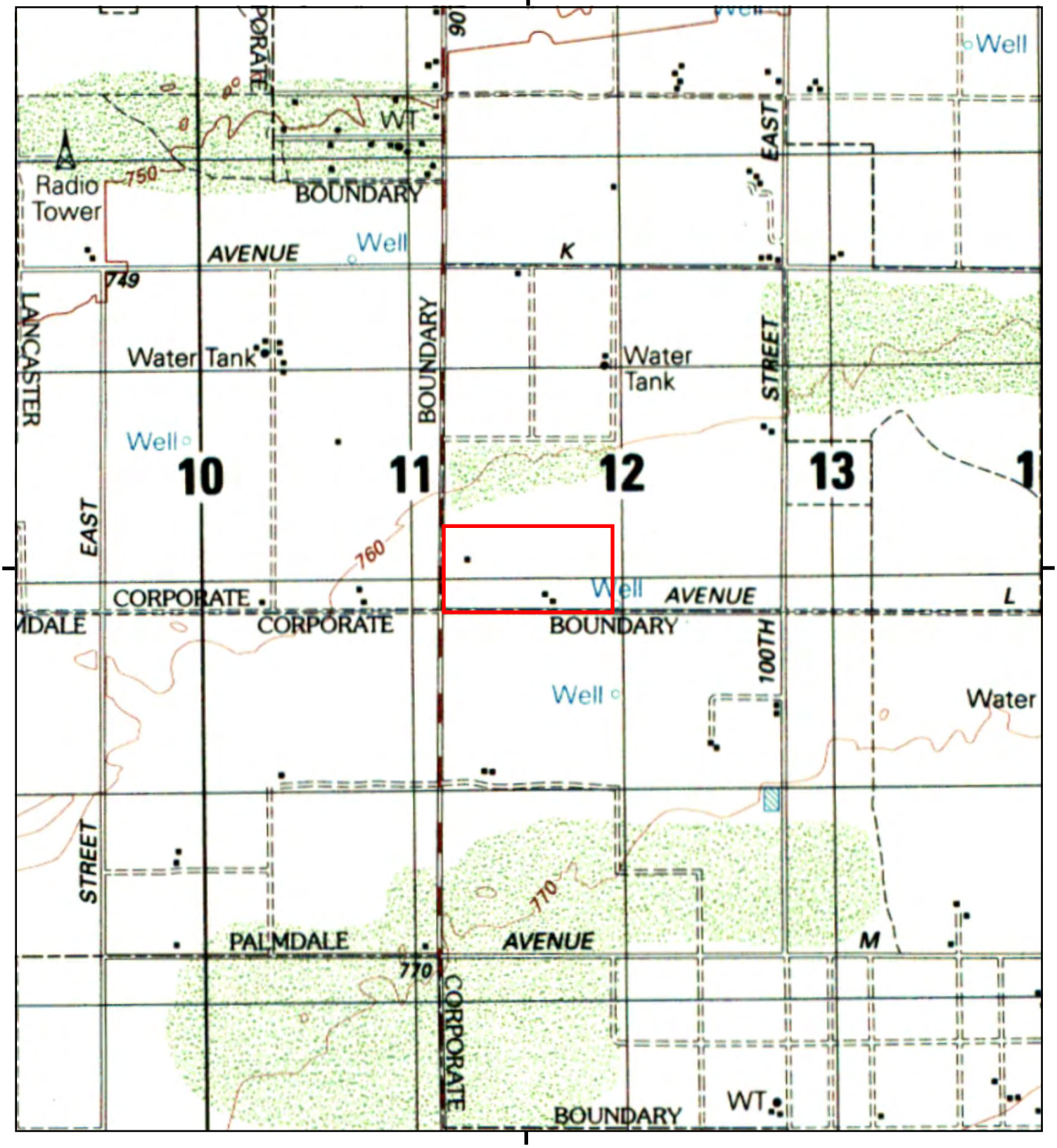
TP, Alpine Butte, 1992, 7.5-minute

SITE NAME: Lancaster Parcel 3378-004-008
ADDRESS: Not Reported
LANCASTER, CA 93535
CLIENT: NV5

N

Historical Topo Map

1989



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

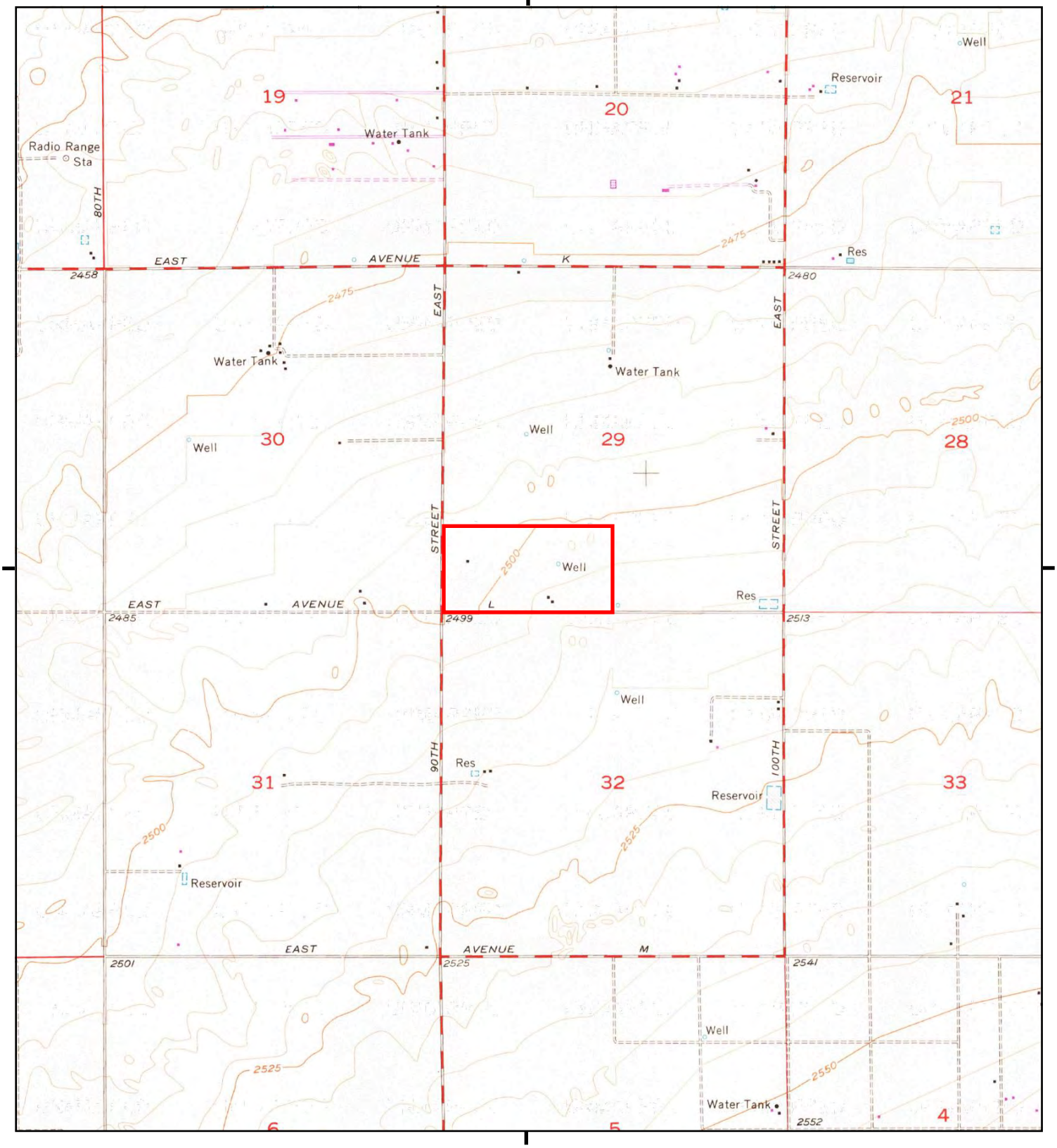
TP, HI VISTA, 1989, 15-minute

SITE NAME: Lancaster Parcel 3378-004-008
ADDRESS: Not Reported
LANCASTER, CA 93535
CLIENT: NV5

N

Historical Topo Map

1974



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

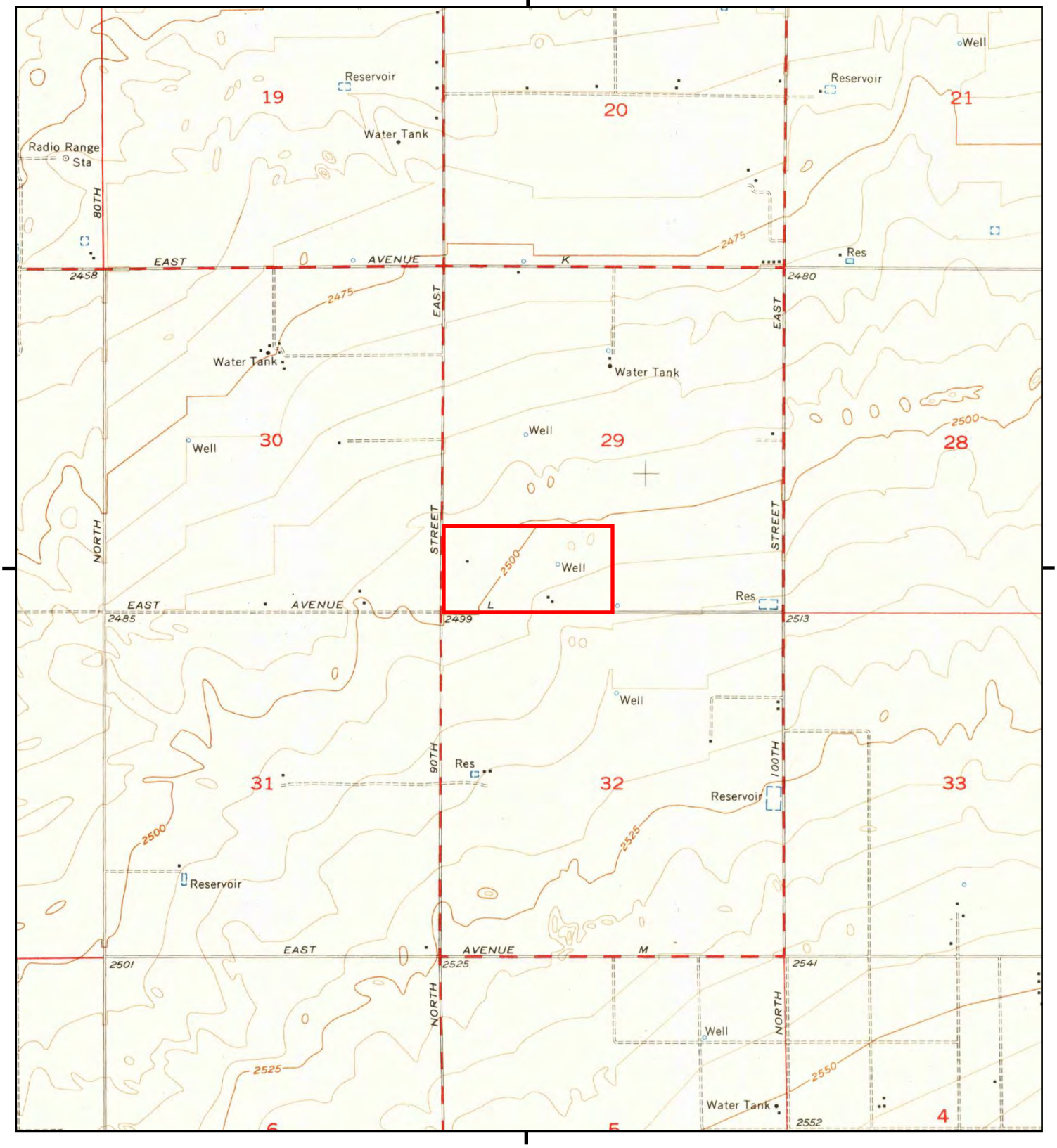
TP, Alpine Butte, 1974, 7.5-minute

SITE NAME: Lancaster Parcel 3378-004-008
ADDRESS: Not Reported
LANCASTER, CA 93535
CLIENT: NV5

N

Historical Topo Map

1957



This report includes information from the following map sheet(s).

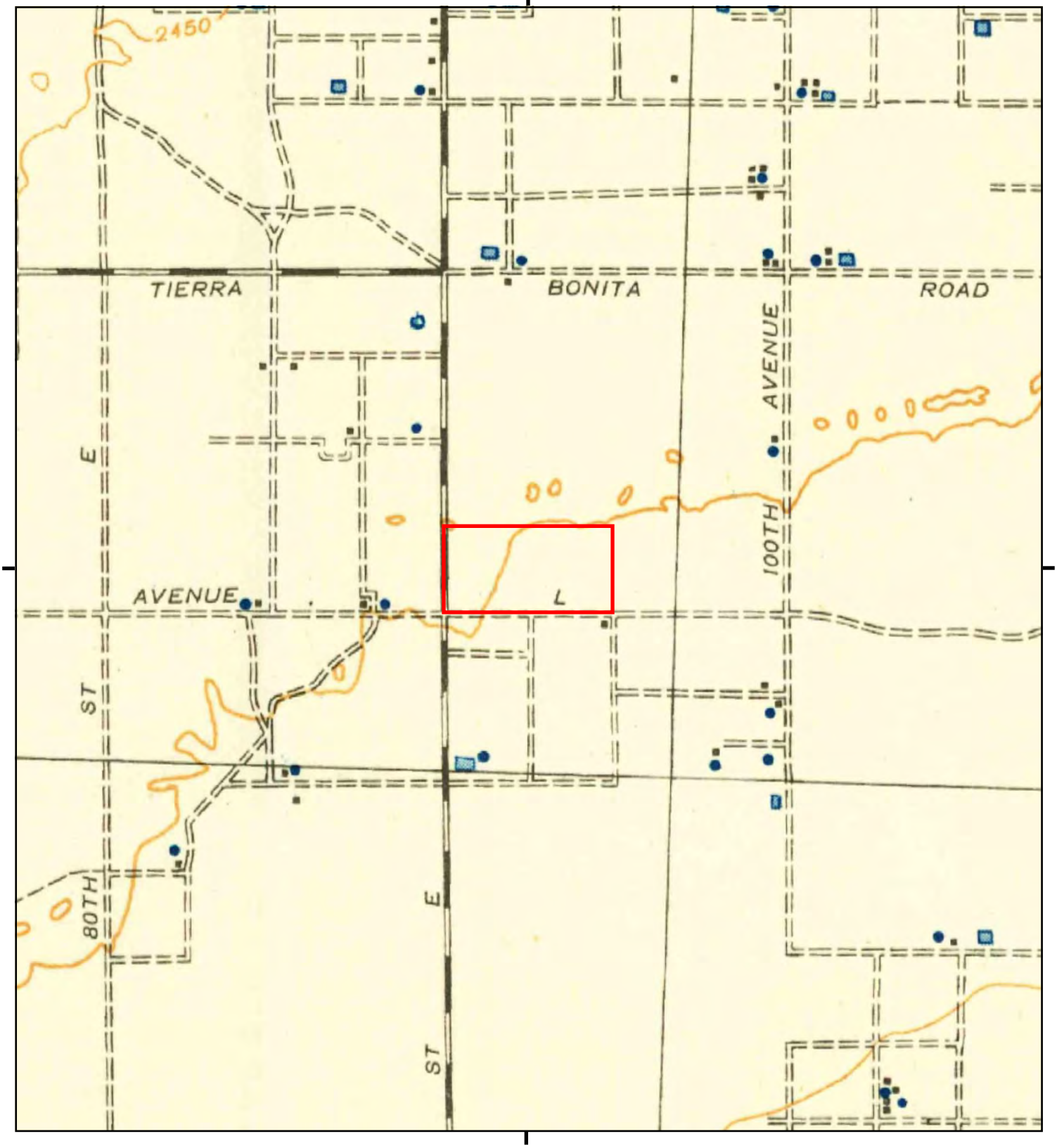
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Alpine Butte, 1957, 7.5-minute

SITE NAME: Lancaster Parcel 3378-004-008
ADDRESS: Not Reported
LANCASTER, CA 93535
CLIENT: NV5

N



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

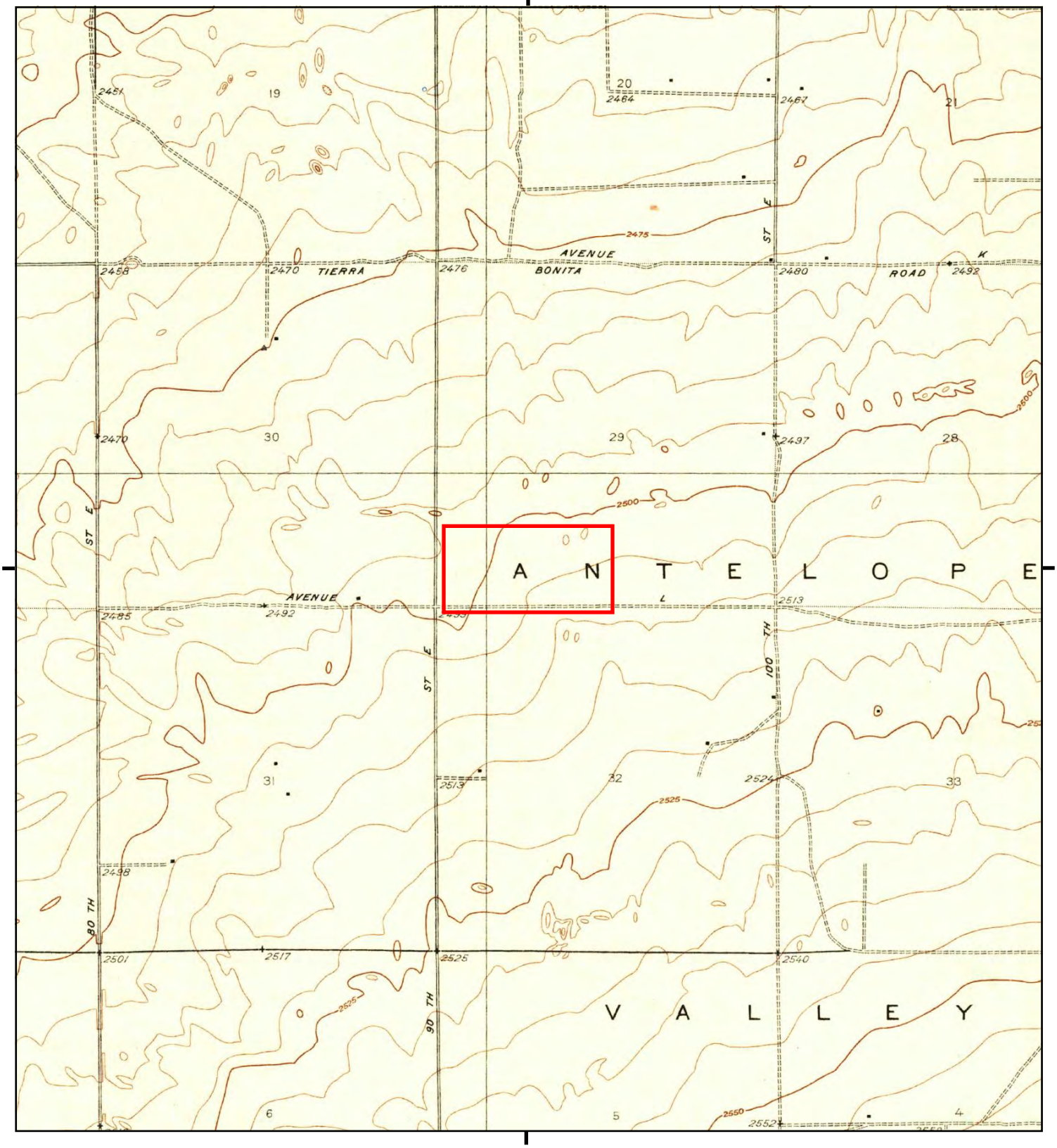
TP, Alpine Butte, 1945, 15-minute

SITE NAME: Lancaster Parcel 3378-004-008
ADDRESS: Not Reported
LANCASTER, CA 93535
CLIENT: NV5

N

Historical Topo Map

1933



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

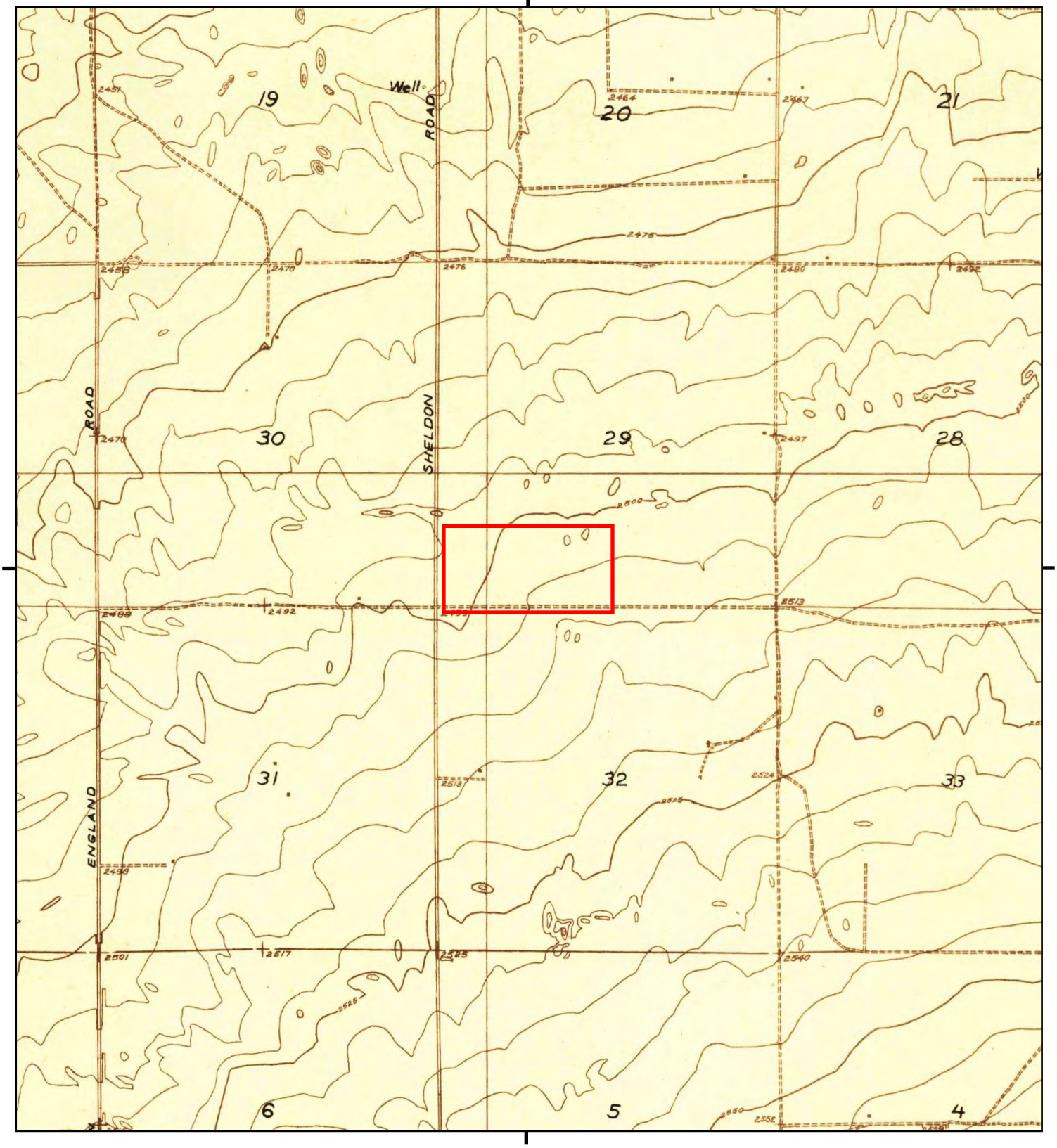
TP, West Alpine Butte, 1933, 7.5-minute

SITE NAME: Lancaster Parcel 3378-004-008
ADDRESS: Not Reported
LANCASTER, CA 93535
CLIENT: NV5

N

Historical Topo Map

1930



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, West Alpine Butte, 1930, 7.5-minute

SITE NAME: Lancaster Parcel 3378-004-008
ADDRESS: Not Reported
LANCASTER, CA 93535
CLIENT: NV5

N

Lancaster Parcel 3378-004-008

Not Reported

LANCASTER, CA 93535

Inquiry Number: 7563392.15

February 08, 2024

Certified Sanborn® Map Report

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

Certified Sanborn® Map Report

02/08/24

Site Name:	Client Name:
Lancaster Parcel 3378-004-008	NV5
Not Reported	3777 Long Beach Blvd
LANCASTER, CA 93535	Long Beach, CA 90807-0000
EDR Inquiry # 7563392.15	Contact: Eric Fraske

The Sanborn Library has been searched by EDR and maps covering the target property location as provided by NV5 were identified for the years listed below. The Sanborn Library is the largest, most complete collection of fire insurance maps. The collection includes maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow, and others. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by the Sanborn Library LLC, the copyright holder for the collection. Results can be authenticated by visiting www.edrnet.com/sanborn.

The Sanborn Library is continually enhanced with newly identified map archives. This report accesses all maps in the collection as of the day this report was generated.

Certified Sanborn Results:

Certification # 493D-4DB6-91B8

PO # UPRD-23-12039

Project Lancaster Parcel 3378-004-008

UNMAPPED PROPERTY

This report certifies that the complete holdings of the Sanborn Library, LLC collection have been searched based on client supplied target property information, and fire insurance maps covering the target property were not found.

Sanborn® Library search results

Certification #: 493D-4DB6-91B8

The Sanborn Library includes more than 1.2 million fire insurance maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow and others which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

- ☑ Library of Congress
- ☑ University Publications of America
- ☑ EDR Private Collection

The Sanborn Library LLC Since 1866™

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Appendix F

Client/User Provided Documentation

Eric Fraske

From: Max Margolin <Max@Upstream.energy>
Sent: Monday, March 18, 2024 3:43 PM
To: Eric Fraske
Subject: FW: Lancaster Questions
Attachments: IMG_7301.JPG; IMG_7305.JPG; IMG_7306.JPG; IMG_7351.JPG; IMG_7281.JPG

Hi Eric –

I just spoke to Bolthouse and received the following information:

- 7281 – palm compost stacked up to create a windbreak
- 7301 – storage tanks for sulfuric acid used in irrigation for water treatment. Water is hard and contains bicarbonates which will affect crop growth.
- 7305 and 7306 – abandoned irrigation well bores.
- 7351 – yellow material is sulfur

- There are abandoned water wells that have been capped and one active water well.
- No areas of known contamination.
- No USTs
- No above-ground fuel tanks
- Yes, ag pesticides transported by trucks. Mixed on site right next to the irrigation mainlines.

Let me know if you have any further questions.

Thanks,
Max

Max Margolin
Director, Development | Upstream
7650 Girard Avenue, Suite 300
La Jolla, CA 92037
239.728.8476

From: Max Margolin <Max@Upstream.energy>
Date: Friday, February 23, 2024 at 9:11 AM
To: Dan Clifford <dclifford@bolthouseproperties.com>, Brad DeBranch <BDeBranch@bolthouseproperties.com>
Cc: Nancy Vogel <NVogel@bolthouseproperties.com>
Subject: FW: Lancaster Questions

Dan and Brad – happy Friday!

Would you be able to assist with getting these questions answered to the best of your/Bolthouse's ability?

Thank you,
Max

Max Margolin
Director, Development | Upstream
7650 Girard Avenue, Suite 300
La Jolla, CA 92037

239.728.8476

From: Eric Fraske <Eric.Fraske@nv5.com>
Date: Friday, February 23, 2024 at 8:55 AM
To: Max Margolin <Max@Upstream.energy>
Subject: Lancaster Questions

Hi Max,

Had a few questions regarding the Lancaster sites. Could you pass these along to the Site owner or provide me with their contact information.

- Photo 7281 – The stockpiled material seen in the photo, what is the source of that material and what is it used for?
- Photo 7301 – What is stored in the aboveground storage tanks? It's labeled Sulfuric Acid, what is that used for?
- Photo 7305 and 7306 – What was this structure?
- Photo 7351 – What is this material and what is it used for?

Also, regarding the Sites

- Are there any known areas of contamination, underground storage tanks, aboveground fuel tanks, or wells located at the Site?
- Are pesticides used at the Site? If so, how are they brought to the Site? Is any mixing conducted onsite? If so, where?

Thanks,

Eric Fraske | Senior Engineer III | **NV5** | Site Assessment and Remediation
3777 Long Beach Boulevard, Annex Building | Long Beach, CA 90807 | P: 562.495.5777 | C: 562.544.3910
eric.fraske@nv5.com | www.altaenviron.com | www.nv5.com | Electronic Communications Disclaimer

I am working remotely and can be reached via cell at 562.544.3910.

Alta Environmental is now NV5.

PHASE I ESA USER QUESTIONNAIRE

ASTM E-1527 provides Landowner Liability Protections to purchasers of commercial property if All Appropriate Inquiry (AAI) is completed during property acquisition. The answers to the questions below provide information to the Environmental Professional to assist the User of the referenced Phase I ESA to comply with the User Responsibilities of AAI.

Property Description			
Property Address:	N/A LA County APN 3378-004-008		
Current Occupant:	Bolthouse Farming		
Current Owner:	Bolthouse Land Company LLC	Phone:	661-323-4005
Site Contact:	Brad DeBranch	Phone:	
Potable Water Provider:	Unknown		
Electricity Provider:	Southern California Edison		
Natural Gas Provider:	Unknown - likely SoCalGas		
Sanitary Sewer Provider:	Unknown		
Solid Waste Disposal Provider:	Unknown		
Hazardous Waste Disposal:	Uknown		
Reason for Performing ESA	Due diligence in advance of long-term lease		

Are you aware of any environmental liens that have been filed or recorded under Federal State, local or tribal law? If yes provide details.
□ Yes ☑ No

Are you aware of any activity or land use limitations (AULs), engineering controls or land use limitations that have been filed or recorded under Federal, State, Local or Tribal Law? If yes, provide details.
□ Yes ☑ No

Do you have any specialized knowledge of the property or experience related to the Subject Property or nearby properties so that you would have knowledge of chemicals or processes used at the property? If yes, provide details.
□ Yes ☑ No

Is the acquisition price differing from the fair market value of the property?
□ Yes ☑ No
If there is a difference, have you considered a lower price is due to contamination known or believed to be present at the property? Please provide details.
□ Yes ☑ No

Phase I ESA User Questionnaire - Continued

As the user of this ESA, based on your knowledge and experience with the property, are there any obvious indications of the presence or likely presence of contamination at the property? If yes, provide details.
□ Yes ☑ No

Are you aware of any information that would help the environmental professional identify conditions indicative of releases or potential releases, including past uses of the property, uses of chemicals at the property, or environmental cleanups that have taken place at the property? If yes, provide details.
□ Yes ☑ No

Do you know of any pending, past or threatened litigation or administrative proceedings related to hazardous substances or petroleum products on, in or from the property or any notices regarding possible violations of environmental laws or possible liability related to hazardous substances or petroleum products? If yes, provide details.
□ Yes ☑ No

Are there any chemical storage areas or hazardous material storage areas located at the Subject Property?
If yes, provide details.
□ Yes ☑ No

Are there any current or historical Aboveground Storage Tanks or Underground Storage Tanks? If yes, provide details.
□ Yes □ No
Uknown

Are there any current or historical wastewater treatment systems, clarifier/interceptor systems, or grease trap systems associated with the Subject Property? If yes, provide details.
□ Yes □ No
Unknown

Phase I ESA User Questionnaire - Continued

Are you aware of the existence or location of the following documents related to the Subject Property, and if yes, can copies be made available for review by the Environmental Professional?

□ Previous Environmental Site Assessment reports or Investigation reports
□ Environmental Permits
□ Registrations for underground storage tanks (USTs)
□ Spill Prevention Containment and Contingency Plans (SPCC)
□ Stormwater Pollution Prevention Plans (SWPPP)
□ Risk Assessments
□ Hydrogeologic Reports related to the property or surrounding area
□ Notices of Violation from governmental agencies regarding past or current violations of environmental laws or related to environmental liens encumbering the property
□ Hazardous waste manifests or generation reports
□ Recorded land and activity use limitations
□ Geotechnical Studies

None

Max Margolin	Upstream Energy, Director of Development
(Name- Authorized User Representative)	(Company/Title)
Max Margolin	February 7, 2024
(Signature)	(Date)

Appendix G

References

REFERENCES

American Society for Testing and Materials, Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process, ASTM Designation: E 1527-21

American Society for Testing and Materials, Standard Guide for Vapor Encroachment Screening on Property Involved in Real Estate Transactions, ASTM Designation: E 2600-22

Environmental Data Resources, Inc., Milford, Connecticut, The EDR Aerial Photo Decade Package, Inquiry No. 7563392.24, February 2024.

Environmental Data Resources, Inc., Milford, Connecticut, Certified Sanborn Map Report, Inquiry No. 7563392.15, February 2024.

Environmental Data Resources, Inc., Milford, Connecticut, The EDR Historical Topographic Map Report, Inquiry No. 7563392.16, February 2024.

Environmental Data Resources, Inc., Milford, Connecticut, The EDR Radius Map Report with Geocheck , Inquiry No. 7563392.14s, February 2024.

Environmental Data Resources, Inc., Milford, Connecticut, The EDR City Directory Image Report, Inquiry No. 7563392.17, February 2024.

Environmental Data Resources, Inc. Milford, Connecticut. The EDR Environmental Lien and AUL Search 1980, Inquiry No. 7563392.20s, February 2024.

Appendix G
Drainage Report

DRAFT

LAND DEVELOPMENT DIVISION
STORM DRAIN & HYDROLOGY UNIT

TO: Upstream DATE 10/9/25
ATTN: Max Margolin

REVIEW OF HYDROLOGY STUDY

PD/MTD. NO.	**N/A**	**DATE OF REPORT**	**10/02/2025**
TR/PM NO.	**RPPL2024001545**	**PLAN CHECK NO.**	**3**
		PLAN CASE NO.	**ESTU2024000461**

We have reviewed your Hydrology Study and LID Plan.

[X] The Hydrology Study has been approved.

[X] The LID Plan has been approved.

REVIEWED BY _____

Alex Mikhailpoor - (626) 458-4921

APPROVED BY: _____

HYDROLOGY STUDY APPROVED

REVIEWED BY: _____ DATE 10/09/25

APPROVED BY: _____ DATE 10/09/25

COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS
LAND DEVELOPMENT DIVISION

DRAINAGE REPORT

FOR

Pronghorn Solar & Storage Project

Lancaster, California 93535

September 26, 2025

CUP# RPPL2024001545
PLANCASE# ESTU2024000461



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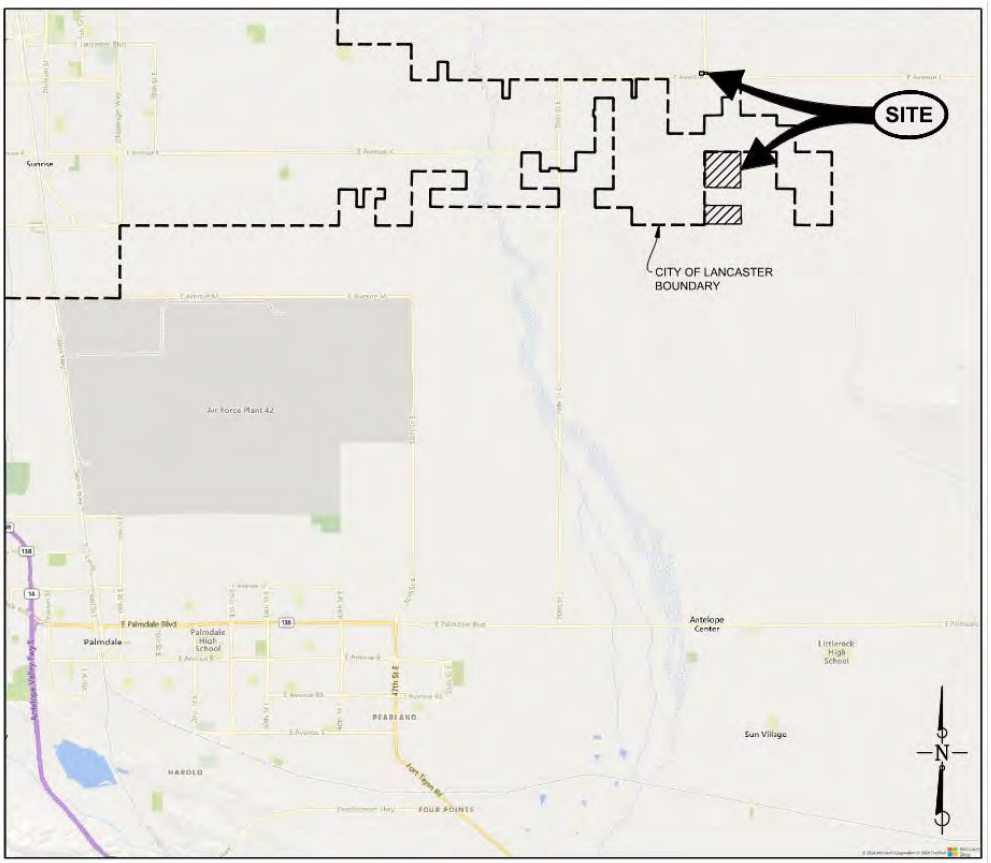
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INTRODUCTION

The proposed project includes four parcels located in East Lancaster. Parcel A (APN 3378-003-001) contains 163.53 acres and is located Southeast of the intersection of Avenue K & 90th Street East. Parcel B (APN 3378-004-008) contains 82.21 acres and is located Northeast of the intersection of East Avenue L & 90th Street East. See Figure 1. The third Parcel (APN 3376-006-012) contains 1.75 acres and is located North of Avenue J along 90th Street East. Directly across from the third Parcel is the fourth Parcel (APN 3376-011-035) which contains 0.71 acres and is located at 44434 90th Street East.

The proposed project includes gravel roads and PV solar modules with conversion stations on Parcels A and B. A Battery Energy Storage System (BESS) will be on the third Parcel and includes battery enclosures on impervious concrete pads, medium voltage transformers and a gravel access road. The fourth Parcel will construct a substation to store and discharge energy and a gravel access road. The PV solar module arrays will be installed on a single axis tracker racking system that is mounted on piles driven into the ground. The solar modules will be mounted on posts in native soil and have 20 feet spacing between them with stormwater running directly to the adjacent ground surface. The gravel access roads will be constructed on existing grade with minimal grading. The entire project will be enclosed by a chain link perimeter fence for each Parcel.

Figure 1:



VICINITY MAP
NOT TO SCALE

APPROACH

The objective of this report is to provide the results of the drainage analysis and to demonstrate project compliance with the Los Angeles County Department of Public Works (LACDPW) and Low Impact Development (LID) requirements. Requirements for this project will include post-development runoff conditions that do not exceed pre-development runoff conditions for the 2-year, 5-year, 10-year, 25-year, and 50-year storm events. The volume-based LID storm event or stormwater quality design volume (SWQDv) is defined as the 85th percentile, 24-hour storm event or the 0.75-inch, 24-hour storm event, whichever is greater. The required retention will be the larger of the Pre-Post runoff volume or the SWQDv. Hydrologic calculations were performed using the LA County software "HydroCalc" to determine peak flow rates and runoff volumes for the 2-50 year storm events based on the LA County Hydrology Manual.

The proposed project results in greater than 10,000 square feet of impervious area which classifies the project as Designated. Designated Projects are required to retain the 100% of the SWQDv on-site through infiltration, evapotranspiration, stormwater runoff harvest and use or a combination thereof and implement hydromodification requirements, if necessary. The proposed impervious areas will be treated on-site with either infiltration basins or gravel areas that are sized to retain 100% of the site's SWQDv or the Pre-Post runoff volume increase, whichever volume is greater. Calculations can be found in attachment Sections 1 and 2.

Per the direction of LACDPW, the required minimum assumed proposed impervious area for array fields is 10% and was used for the solar DMA's A-H. The infiltration basins were requested to be in the middle of the site or adequately upstream of the outflow point to promote normalization of discharge to sheet flow prior to discharging from the site. The maximum ponding depth for infiltration basins without fencing is 18-inches. Proposed location and depth follows these requirements and is shown on the stormwater exhibits found in attachment Section 3.

Parcels A and B are currently 0.01% impervious (1,130 square feet) with an average slope of 0.5%. The project drains to the north where stormwater percolates before being intercepted by the road. The geotechnical engineering report confirms adequate infiltration rates of 0.6 inches per hour for Parcel A and 0.3 inches per hour for Parcel B. The BESS Parcel is currently 0.0% impervious with an average slope of 1.1% to the Northwest open area. The Substation Parcel is currently 85.5% impervious with an average slope of 0.8% to the Northwest. Infiltration rates of 0.6 inches per hour were found for the BESS and Substation Parcels per the geotechnical engineering report.

The proposed project was divided into drainage management areas (DMA's) A-J for analysis purposes. DMA's A-H include Parcels A and B and will increase the total impervious area to 10.0% (1,042,572 square feet), the assumed minimum impervious area for solar arrays. The proposed site is designed to distribute runoff from impervious areas to sheet flow across the natural grade into infiltration basins where stormwater can be treated and retained/detained. Infiltration basins have been strategically located throughout the site to be perpendicular to drainage flows to intercept the stormwater while also being upstream of the proposed gravel roads that will further help to disperse flows prior to discharging offsite. Existing drainage patterns and outlet locations will be maintained. Additionally, the proposed gravel access roads that surround the entire project will inherently provide additional treatment and storage that will also improve downstream conditions. The Substation Parcel, DMA I, will significantly reduce impervious areas in the proposed condition to 2.66% (840 square feet) and will maintain existing drainage patterns. DMA I will provide treatment and approximately 2,520 cubic feet of storage within the gravel access road and substation area to further improve downstream conditions. The BESS Parcel, DMA J, will increase the impervious area to 19.49% (14,835 square feet) and maintain existing drainage patterns. The proposed BESS site is designed to sheet flow runoff to swales that direct runoff to an on-site infiltration basin for treatment and retention/detention. Overflow volumes will be directed to existing drainage paths to the Northwest.

See attachment Section 3 for Existing and Proposed LID Stormwater Exhibits.

HYDROLOGY

Hydromodification Volume

The LID Manual, Section 8, requires that any increase in runoff volume between pre- and post-development conditions be retained on-site to mitigate downstream impacts. As demonstrated in Table 1, the 50-year event controls volumetric retention requirements because it results in the greatest increase of required events. Hydrologic calculations were performed based on the Modified Rational Method Using the Los Angeles County software HydroCalc to determine peak flow rates and volumes for the 2-year, 5-year, 10-year, 25-year, and 50-year events based on the LA County Hydrology Manual. See Tables below for Pre and Post Development flow rates and volumes.

Table 1: Pre-Devlopment and Post-Development Volume (cf):

DMA ID	2 YR		5 YR		10 YR		25 YR		50 YR		Pre-Post Δ
	Pre	Post	Pre	Post	Pre	Post	Pre	Post	Pre	Post	
DMA A	10093	16822	15231	25386	18622	31036	22899	38165	26081	43468	17387
DMA B	14917	24862	22510	37517	27521	45869	33843	56405	38545	64242	25697
DMA C	15058	25096	22723	37872	27781	46302	34162	56937	38909	64849	25940
DMA D	10727	17878	16188	26979	19791	32985	24337	40562	27719	46198	18479
DMA E	11752	19587	17734	29557	21682	36137	26662	44437	30367	50612	20245
DMA F	12613	21021	19033	31722	23270	38783	28615	47692	32591	54319	21728
DMA G	8877	14794	13395	22325	16377	27295	20139	33565	22937	38229	15292
DMA H	9600	16001	14487	24146	17712	29521	21781	36301	24807	41345	16538
DMA I	2045	317	3087	479	3774	585	4640	720	5285	820	(4465)
DMA J	683	1620	1031	2445	1261	2989	1551	3675	1766	4186	2420

Storm Water Quality Design Volume

Per Section 6.2 of the LID Manual, the 85th percentile, 24-hour rain event was not analyzed because the site rainfall depth was determined to be 0.3 inches from the isohyetal map which is less than the 0.75-inch storm event. The 0.75-inch storm event will control for determining peak flow rates and volumes for LID considerations. The soil number for the site can also be determined from the isohyetal map, which depicts the project to be within the Soil Type 134 boundary. The fire factor for the site was based on Table 6.3.3 of the Hydrology Manual for Los Angeles County Department of Public Works which shows the Antelope Valley Watershed to have a fire factor of 0.34.

0.75-inch Rainfall Depth	**0.75 inches**
Soil Type	134
Watershed	Antelope Valley
Fire Factor	0.34

Table 2 below shows the calculated SWQDv for each DMA based on the 0.75-inch storm event.

Table 2: SWQDv Volume (cf):

DMA ID	SWQDv
A	12543
B	18542
C	18712
D	13335
E	14607
F	15676
G	11033
H	11932
I	236
J	1208

Table 3 below compares the Pre-Post volume increase to the SWQDv volume. The larger of the two volumes determines the design volume for each DMA.

Table 3: Design Volume Determination (cf):

DMA ID	Pre-Post Δ	SWQDv	Design Volume
A	17387	12543	17387
B	25697	18542	25697
C	25940	18712	25940
D	18479	13335	18479
E	20245	14607	20245
F	21728	15676	21728
G	15292	11033	15292
H	16538	11932	16538
I	(4465)	236	236
J	2420	1208	2420

Flow Rate, Depth, and Velocity

Table 4 below shows the Pre-development and Post-development peak flow rates for a 50-year storm. In all DMA's where impervious area is increasing, the peak flow rates will also increase. The proposed construction of the infiltration basins, and gravel areas

compensates for the increases in runoff volume while also attenuating peak flows in a similar manner. No increases in runoff flow rates or discharge volumes are anticipated from the pre-development to post-development condition for the 50 year storm event for each DMA area which is consistent with the LACDPW hydromodification requirements.

Table 4: Pre and Post Development 50-Year Peak Flow Rates (cfs):

DMA ID	Pre-Development	Post-Development	Delta
A	1.862	3.1034	+1.2414
B	2.7519	4.5865	+1.8346
C	2.7779	4.6298	+1.8519
D	1.979	3.2983	+1.3193
E	2.168	3.6134	+1.4454
F	2.3268	3.878	+1.5512
G	1.6376	2.7293	+1.0917
H	1.7711	2.9518	+1.1807
I	0.6645	0.0585	-0.606
J	0.1261	0.3319	+0.2058

See attachment Section 1 for all hydrology calculations.

There are no natural drainage systems tributary to the site with capital flood flow rates greater than 5,000 cfs, therefore sediment transport analysis is not required and was not prepared in this study.

SITE INFILTRATION FEASIBILITY

The soil has been evaluated utilizing the USDA Web Soil Survey and are primarily within the Hesperia & Cajon loamy fine sand soil type. These soils are categorized into group A which is associated with soils having a high infiltration rate and deep, well draining soils. A very small portion of the site is within the Rosamond loam soil type. These soils are categorized into group B which is associated with soils having moderate infiltration rate and moderately well draining soils. Underlying soils appear to have good infiltration and for purposes of this project, infiltration is feasible and consistent with the most recent GMED Policy GS 200.1.

A Geotechnical Engineering Report was provided by Earth Systems Pacific and provides infiltration rates. For calculation purposes the provided rates were used corresponding to their location. 0.6 inches per hour was designated for the Northerly Parcels and 0.3

inches per hour was used for the most Southerly Parcel (B). Groundwater was not encountered at the deepest boring of 50-feet.

The maximum drawdown time per the LID Manual is 96 hours. DMA's A-H have been designed with infiltration basins with a ponding depth of 6-inches which would result in an expected drawdown time of approximately 10-hours (0.5 / (0.60/12)) for Parcel A and approximately 20-hours (0.5 / (0.3/12)) for Parcel B. DMA J's infiltration basin has been designed with a depth of 18-inches which would result in an expected drawdown time of approximately 30-hours (1.5 / (0.6/12)). All proposed stormwater improvements are sized at a depth that would result in a drawdown time less than 96 hours.

See attachment Section 2 for drawdown time calculations.

TREATMENT AND RETENTION

The required stormwater treatment and storage sizing was calculated using the formulas outlined in the County of Los Angeles Department of Public Works LID Standards Manual and as shown in the table below.

Table 5: Stormwater Improvement Sizing Table:

DMA ID	Design Volume (cf)	Impervious Area (sf)	Area Required (sf)	Area Provided (sf)
DMA A	17387	112,393	34774	34800
DMA B	25697	166,092	51394	51945
DMA C	25940	167,641	51880	52310
DMA D	18479	119,448	36958	40120
DMA E	20245	130,840	40490	40840
DMA F	21728	140,416	43456	43760
DMA G	15292	98,841	30584	30820
DMA H	16538	106,901	33076	33330
DMA I	236	840	1573	16800
DMA J	2420	14835	1613	1630

Twenty two infiltration basins are proposed for DMA's A-H and are sized to retain the design volume. The location of the infiltration basins are strategically placed to be gravity

fed from tributary impervious areas. Stormwater runoff will sheet flow overland for pretreatment to the infiltration basins and should be stabilized with rock at inlets and outfalls to reduce maintenance after storm events. The generous pervious gravel driveways provided throughout the site provide as a dispersion barrier for overflow volumes to promote natural pre-development conditions prior to leaving the site.

DMA I has a significant net reduction of impervious area. Treatment and retention/detention will be provided in the 16,800 sf of pervious gravel proposed to be constructed throughout the substation area. Preliminary assumptions of a 6" gravel depth with 30% voids provide approximately 2,520 cubic feet of storage area.

One infiltration basin is proposed within DMA J and is sized to retain the design volume. The location of the proposed bioretention basin is strategically placed to be gravity fed from impervious areas while maintaining existing drainage patterns. The infiltration basin is fed via sheet flow and will treat storm water through soil filtration. Overflow for the basin will spill over the lower northwest side of the basin to the existing low areas of the site and through openings in the proposed site wall. Pretreatment for the infiltration basin will be provided in the generous pervious gravel areas provided throughout the site.

With the stormwater improvements installed there will be no increase in runoff flow rates and discharge volumes from the SWQDv and the pre-development to post-development conditions up to the 50-year storm event.

See Section 3 for the Proposed LID Stormwater Exhibit.
See attachment Section 2 for stormwater improvement sizing worksheet calculations.

SUMMARY AND CONCLUSIONS

Runoff from all DMA's will sheet flow to infiltration basins and / or gravel areas for treatment and to retain the design volume. The proposed stormwater improvement areas exceed the requirements for treatment and retention. Should the site encounter a larger storm event, overland escape is provided and existing drainage patterns are maintained.

SECTION 1

HYDROLOGY CALCULATION

Peak Flow Hydrologic Analysis

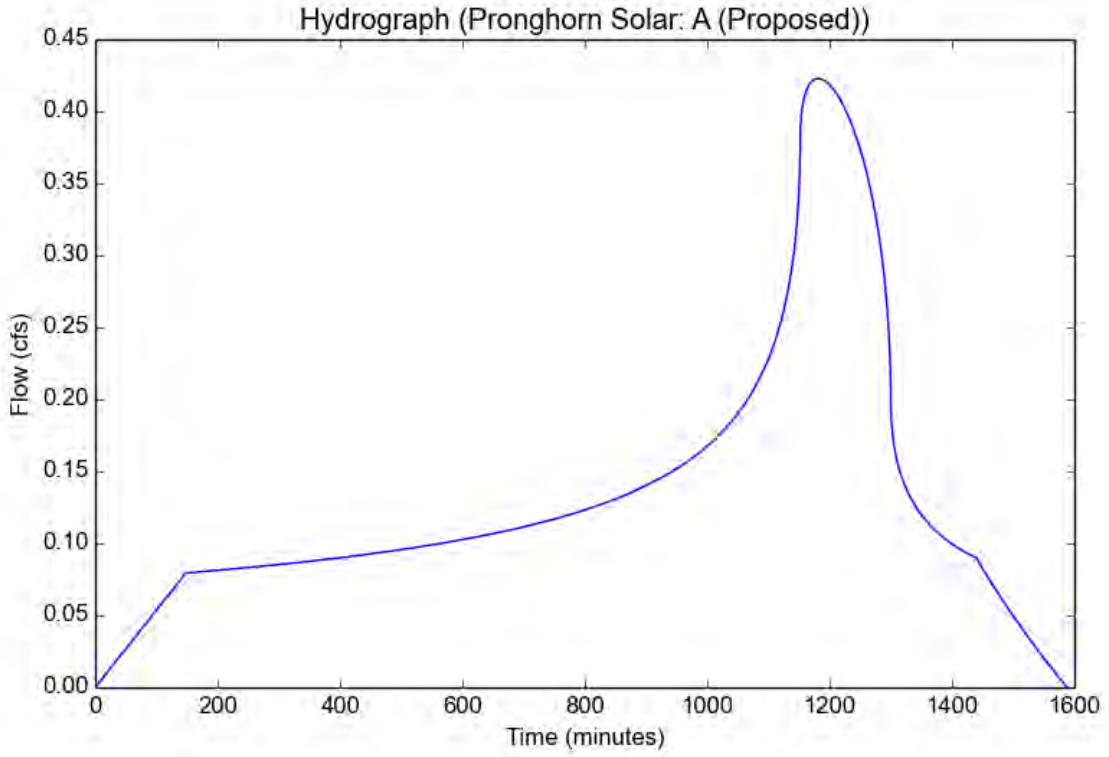
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Input Parameters

Project Name	Pronghorn Solar
Subarea ID	A (Proposed)
Area (ac)	25.8
Flow Path Length (ft)	970.0
Flow Path Slope (vft/hft)	0.005
0.75-inch Rainfall Depth (in)	0.75
Percent Impervious	0.1
Soil Type	134
Design Storm Frequency	0.75 inch storm
Fire Factor	0.34
LID	True

Output Results

Modeled (0.75 inch storm) Rainfall Depth (in)	0.75
Peak Intensity (in/hr)	0.091
Undeveloped Runoff Coefficient (Cu)	0.1
Developed Runoff Coefficient (Cd)	0.18
Time of Concentration (min)	148.0
Clear Peak Flow Rate (cfs)	0.4228
Burned Peak Flow Rate (cfs)	0.5116
24-Hr Clear Runoff Volume (ac-ft)	0.2879
24-Hr Clear Runoff Volume (cu-ft)	12542.5956



Peak Flow Hydrologic Analysis

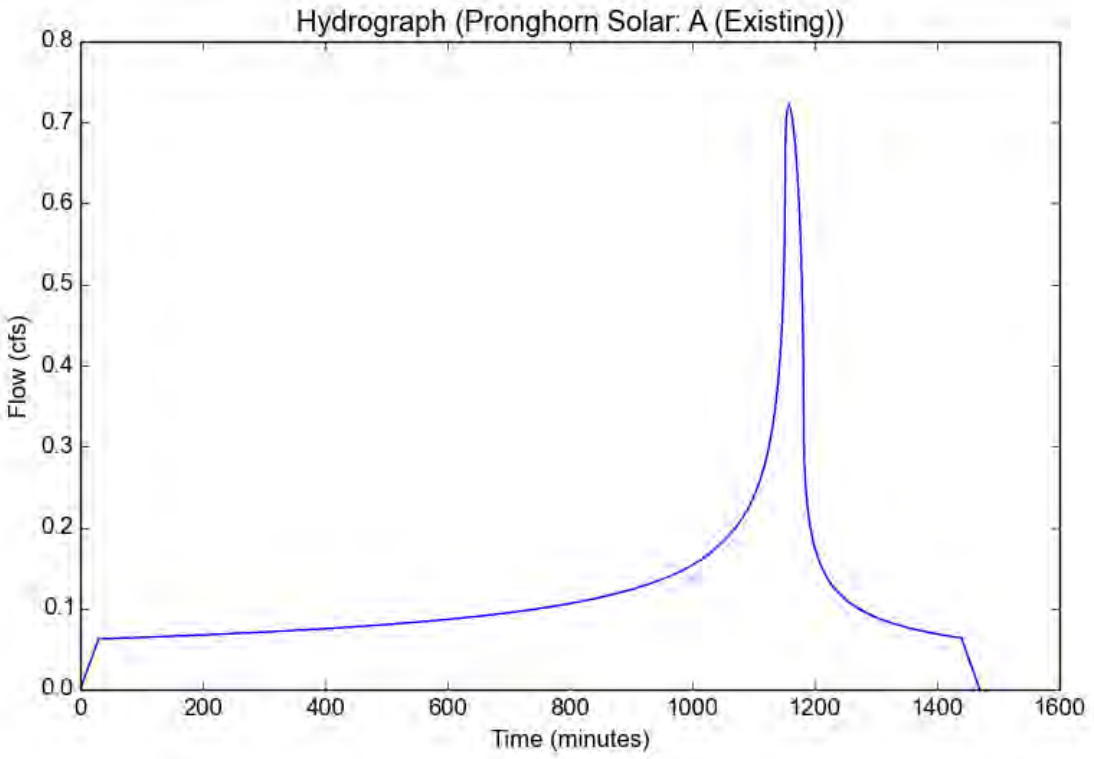
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Input Parameters

Project Name	Pronghorn Solar
Subarea ID	A (Existing)
Area (ac)	25.8
Flow Path Length (ft)	970.0
Flow Path Slope (vft/hft)	0.005
50-yr Rainfall Depth (in)	2.6
Percent Impervious	0.01
Soil Type	134
Design Storm Frequency	2-yr
Fire Factor	0.34
LID	False

Output Results

Modeled (2-yr) Rainfall Depth (in)	1.0062
Peak Intensity (in/hr)	0.2586
Undeveloped Runoff Coefficient (Cu)	0.1
Developed Runoff Coefficient (Cd)	0.108
Time of Concentration (min)	30.0
Clear Peak Flow Rate (cfs)	0.7206
Burned Peak Flow Rate (cfs)	1.1716
24-Hr Clear Runoff Volume (ac-ft)	0.2317
24-Hr Clear Runoff Volume (cu-ft)	10093.3483



Peak Flow Hydrologic Analysis

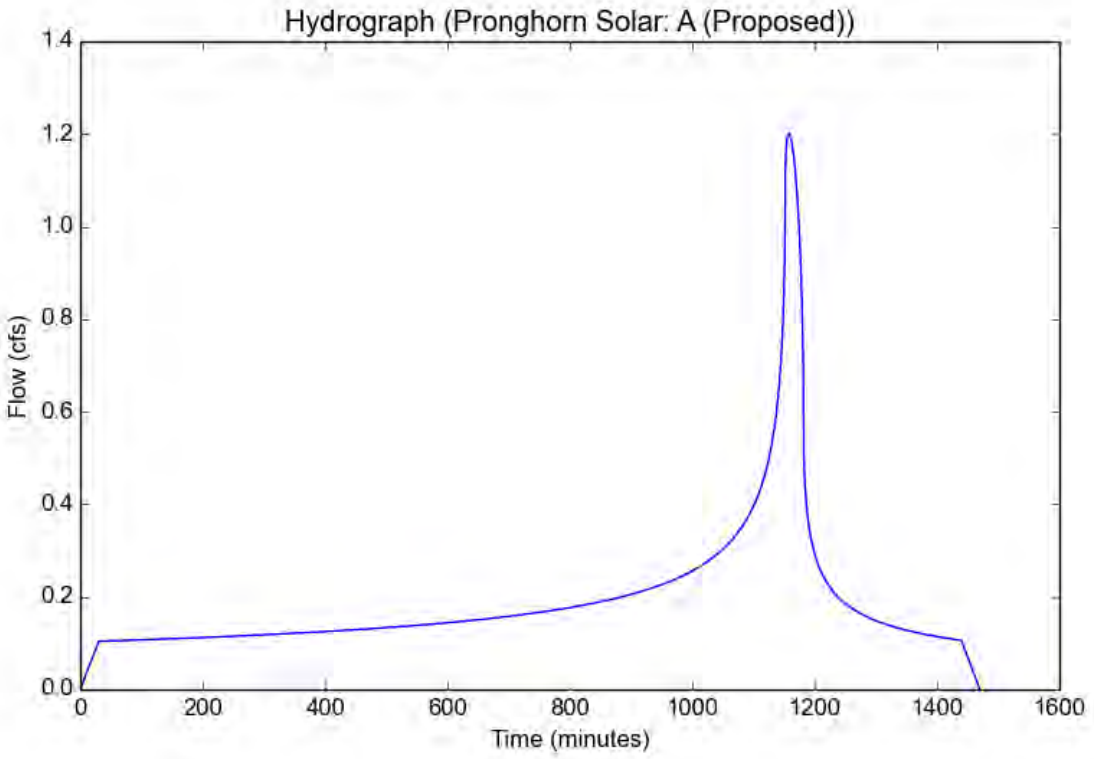
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Input Parameters

Project Name	Pronghorn Solar
Subarea ID	A (Proposed)
Area (ac)	25.8
Flow Path Length (ft)	970.0
Flow Path Slope (vft/hft)	0.005
50-yr Rainfall Depth (in)	2.6
Percent Impervious	0.1
Soil Type	134
Design Storm Frequency	2-yr
Fire Factor	0.34
LID	False

Output Results

Modeled (2-yr) Rainfall Depth (in)	1.0062
Peak Intensity (in/hr)	0.2586
Undeveloped Runoff Coefficient (Cu)	0.1
Developed Runoff Coefficient (Cd)	0.18
Time of Concentration (min)	30.0
Clear Peak Flow Rate (cfs)	1.201
Burned Peak Flow Rate (cfs)	1.6156
24-Hr Clear Runoff Volume (ac-ft)	0.3862
24-Hr Clear Runoff Volume (cu-ft)	16822.2472



Peak Flow Hydrologic Analysis

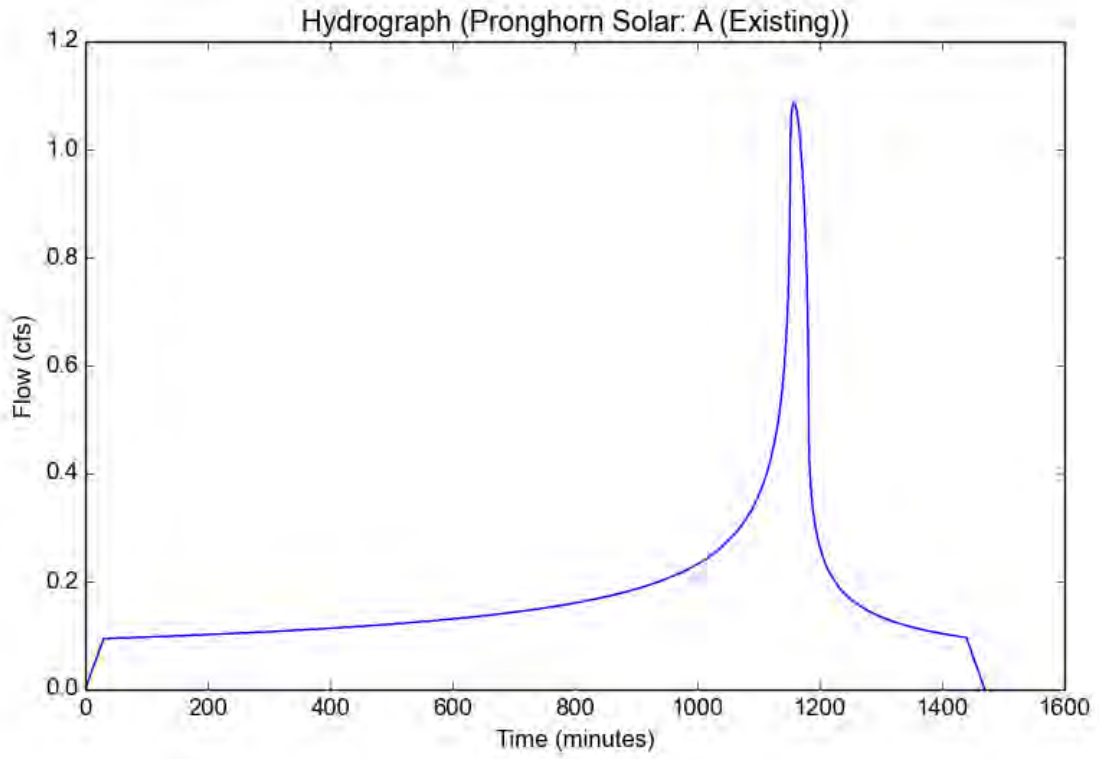
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Input Parameters

Project Name	Pronghorn Solar
Subarea ID	A (Existing)
Area (ac)	25.8
Flow Path Length (ft)	970.0
Flow Path Slope (vft/hft)	0.005
50-yr Rainfall Depth (in)	2.6
Percent Impervious	0.01
Soil Type	134
Design Storm Frequency	5-yr
Fire Factor	0.34
LID	False

Output Results

Modeled (5-yr) Rainfall Depth (in)	1.5184
Peak Intensity (in/hr)	0.3903
Undeveloped Runoff Coefficient (Cu)	0.1
Developed Runoff Coefficient (Cd)	0.108
Time of Concentration (min)	30.0
Clear Peak Flow Rate (cfs)	1.0874
Burned Peak Flow Rate (cfs)	1.8655
24-Hr Clear Runoff Volume (ac-ft)	0.3497
24-Hr Clear Runoff Volume (cu-ft)	15231.306



Peak Flow Hydrologic Analysis

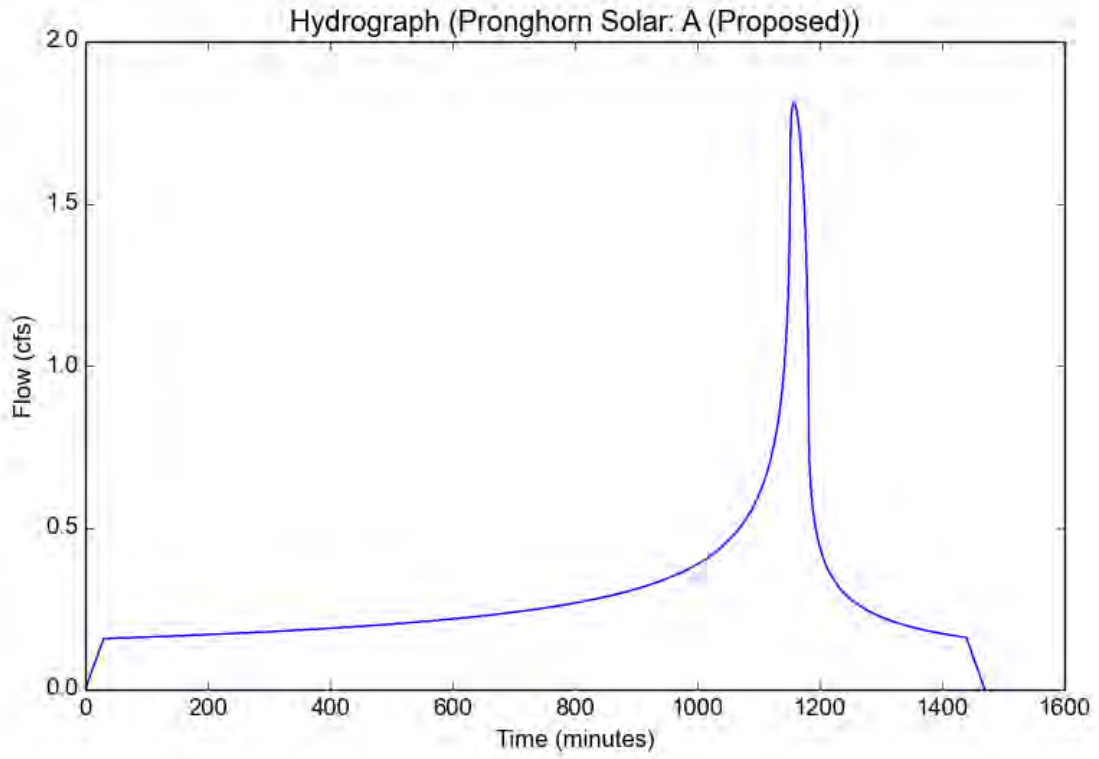
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Input Parameters

Project Name	Pronghorn Solar
Subarea ID	A (Proposed)
Area (ac)	25.8
Flow Path Length (ft)	970.0
Flow Path Slope (vft/hft)	0.005
50-yr Rainfall Depth (in)	2.6
Percent Impervious	0.1
Soil Type	134
Design Storm Frequency	5-yr
Fire Factor	0.34
LID	False

Output Results

Modeled (5-yr) Rainfall Depth (in)	1.5184
Peak Intensity (in/hr)	0.3903
Undeveloped Runoff Coefficient (Cu)	0.1
Developed Runoff Coefficient (Cd)	0.18
Time of Concentration (min)	30.0
Clear Peak Flow Rate (cfs)	1.8124
Burned Peak Flow Rate (cfs)	2.5277
24-Hr Clear Runoff Volume (ac-ft)	0.5828
24-Hr Clear Runoff Volume (cu-ft)	25385.51



Peak Flow Hydrologic Analysis

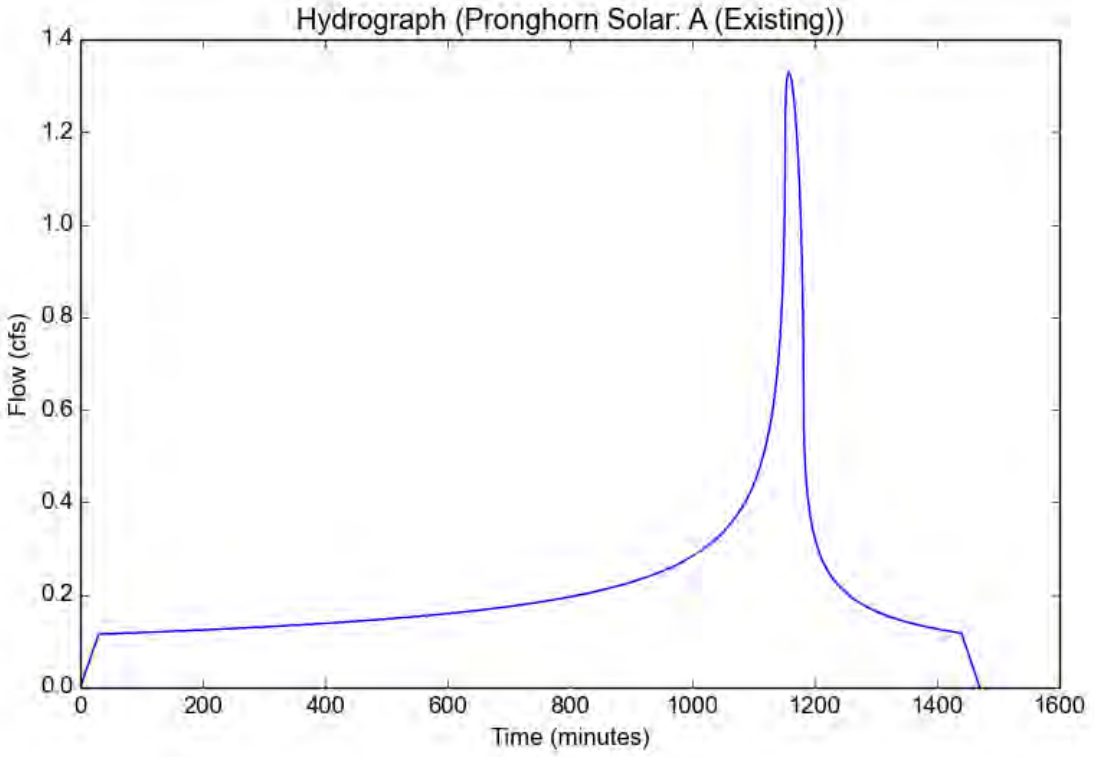
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Input Parameters

Project Name	Pronghorn Solar
Subarea ID	A (Existing)
Area (ac)	25.8
Flow Path Length (ft)	970.0
Flow Path Slope (vft/hft)	0.005
50-yr Rainfall Depth (in)	2.6
Percent Impervious	0.01
Soil Type	134
Design Storm Frequency	10-yr
Fire Factor	0.34
LID	False

Output Results

Modeled (10-yr) Rainfall Depth (in)	1.8564
Peak Intensity (in/hr)	0.4771
Undeveloped Runoff Coefficient (Cu)	0.1
Developed Runoff Coefficient (Cd)	0.108
Time of Concentration (min)	30.0
Clear Peak Flow Rate (cfs)	1.3295
Burned Peak Flow Rate (cfs)	2.3372
24-Hr Clear Runoff Volume (ac-ft)	0.4275
24-Hr Clear Runoff Volume (cu-ft)	18621.8365



Peak Flow Hydrologic Analysis

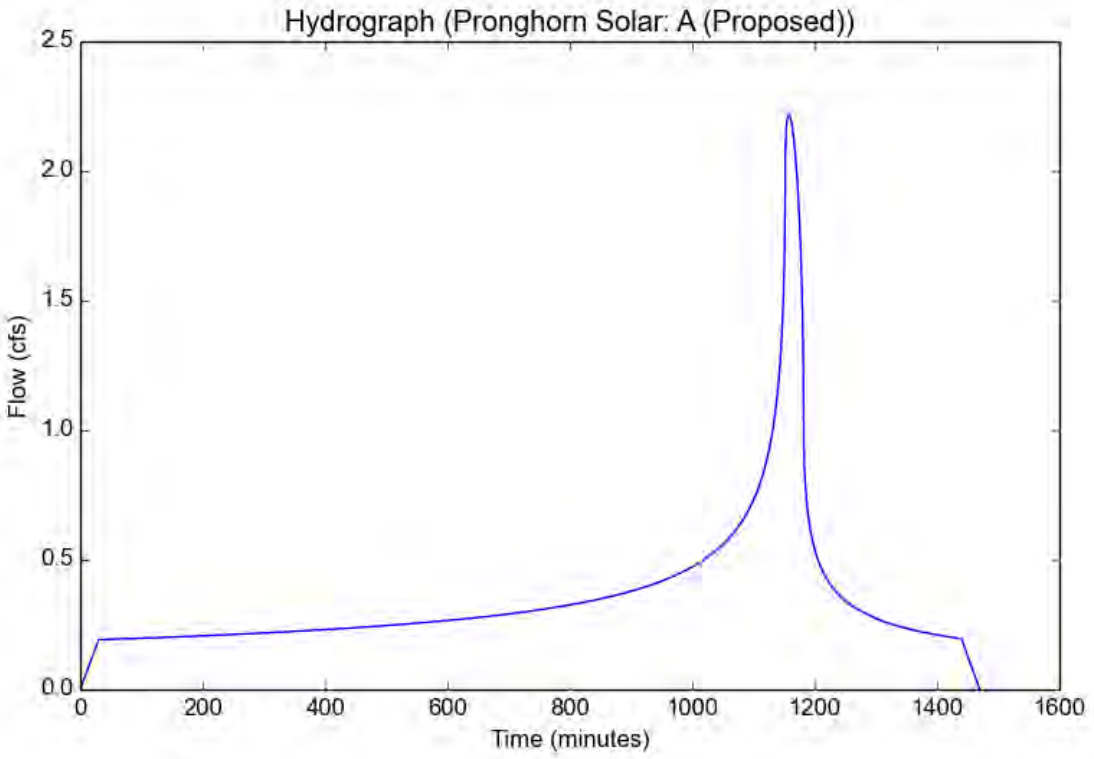
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Input Parameters

Project Name	Pronghorn Solar
Subarea ID	A (Proposed)
Area (ac)	25.8
Flow Path Length (ft)	970.0
Flow Path Slope (vft/hft)	0.005
50-yr Rainfall Depth (in)	2.6
Percent Impervious	0.1
Soil Type	134
Design Storm Frequency	10-yr
Fire Factor	0.34
LID	False

Output Results

Modeled (10-yr) Rainfall Depth (in)	1.8564
Peak Intensity (in/hr)	0.4771
Undeveloped Runoff Coefficient (Cu)	0.1
Developed Runoff Coefficient (Cd)	0.18
Time of Concentration (min)	30.0
Clear Peak Flow Rate (cfs)	2.2158
Burned Peak Flow Rate (cfs)	3.1422
24-Hr Clear Runoff Volume (ac-ft)	0.7125
24-Hr Clear Runoff Volume (cu-ft)	31036.3941



Peak Flow Hydrologic Analysis

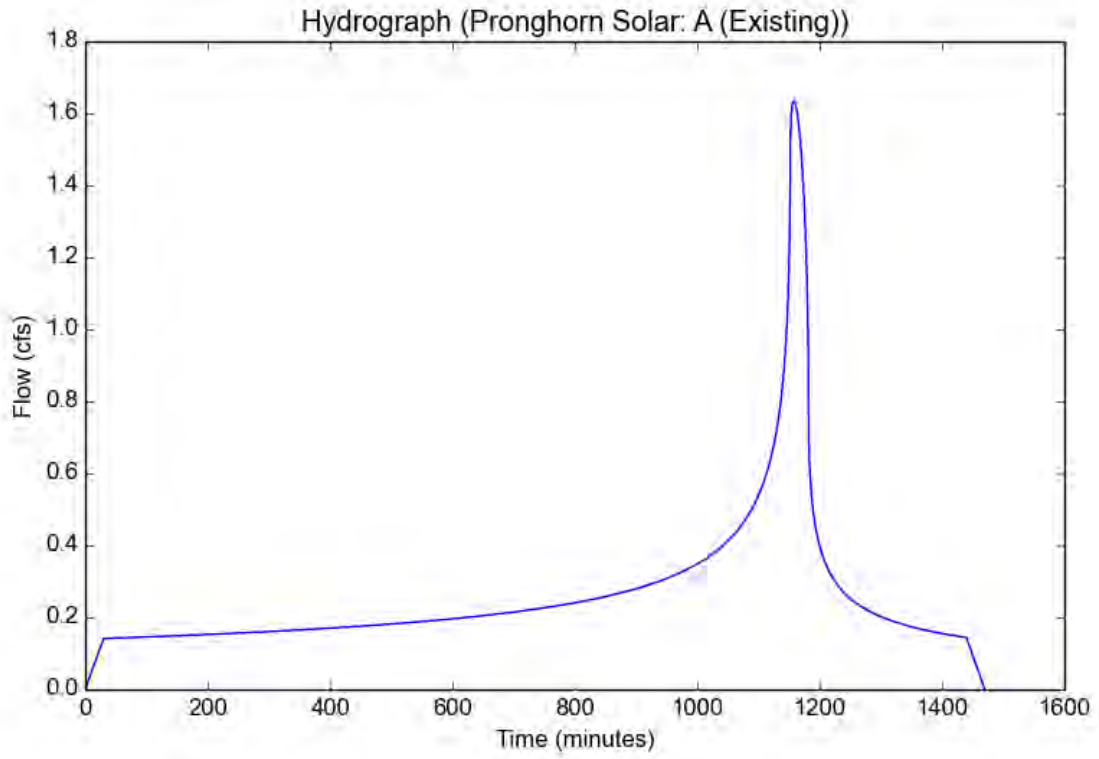
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Input Parameters

Project Name	Pronghorn Solar
Subarea ID	A (Existing)
Area (ac)	25.8
Flow Path Length (ft)	970.0
Flow Path Slope (vft/hft)	0.005
50-yr Rainfall Depth (in)	2.6
Percent Impervious	0.01
Soil Type	134
Design Storm Frequency	25-yr
Fire Factor	0.34
LID	False

Output Results

Modeled (25-yr) Rainfall Depth (in)	2.2828
Peak Intensity (in/hr)	0.5867
Undeveloped Runoff Coefficient (Cu)	0.1
Developed Runoff Coefficient (Cd)	0.108
Time of Concentration (min)	30.0
Clear Peak Flow Rate (cfs)	1.6349
Burned Peak Flow Rate (cfs)	2.944
24-Hr Clear Runoff Volume (ac-ft)	0.5257
24-Hr Clear Runoff Volume (cu-ft)	22899.121



Peak Flow Hydrologic Analysis

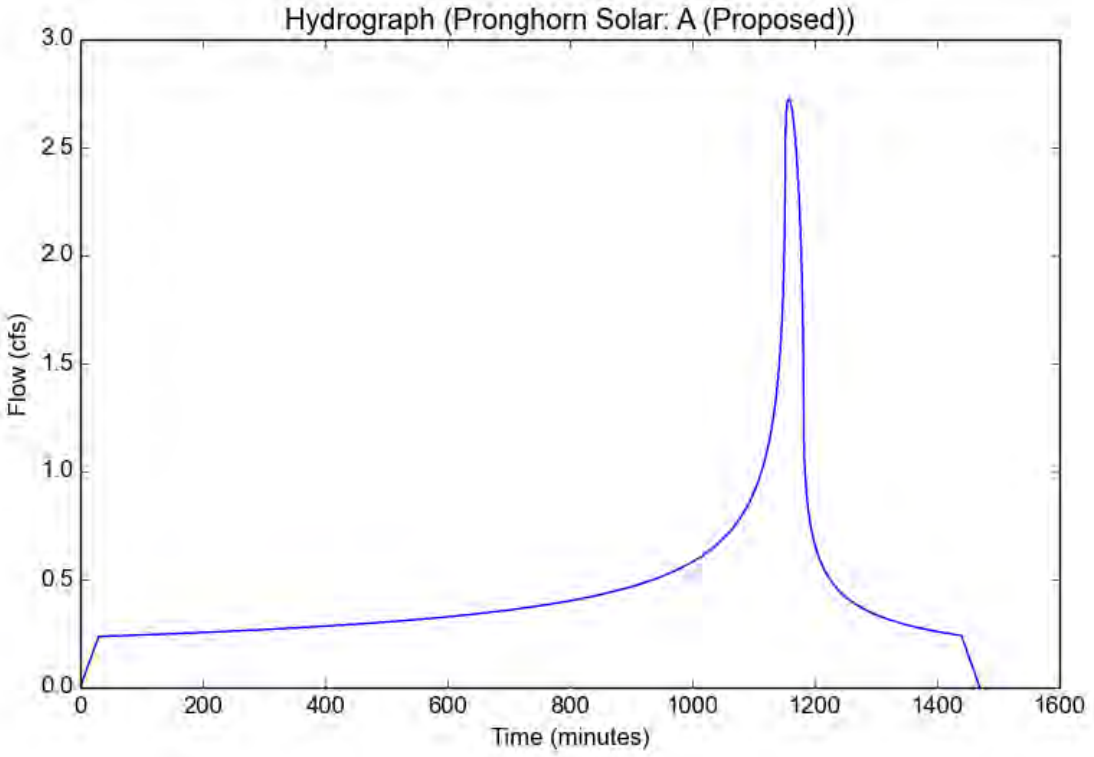
File location: X:/2024/24030/DRAINAGE/SWQDV SHEETS/20250905/24030_Pronghorn Solar - A 25YR PROP.pdf
Version: HydroCalc 1.0.3

Input Parameters

Project Name	Pronghorn Solar
Subarea ID	A (Proposed)
Area (ac)	25.8
Flow Path Length (ft)	970.0
Flow Path Slope (vft/hft)	0.005
50-yr Rainfall Depth (in)	2.6
Percent Impervious	0.1
Soil Type	134
Design Storm Frequency	25-yr
Fire Factor	0.34
LID	False

Output Results

Modeled (25-yr) Rainfall Depth (in)	2.2828
Peak Intensity (in/hr)	0.5867
Undeveloped Runoff Coefficient (Cu)	0.1
Developed Runoff Coefficient (Cd)	0.18
Time of Concentration (min)	30.0
Clear Peak Flow Rate (cfs)	2.7248
Burned Peak Flow Rate (cfs)	3.9283
24-Hr Clear Runoff Volume (ac-ft)	0.8762
24-Hr Clear Runoff Volume (cu-ft)	38165.2017



Peak Flow Hydrologic Analysis

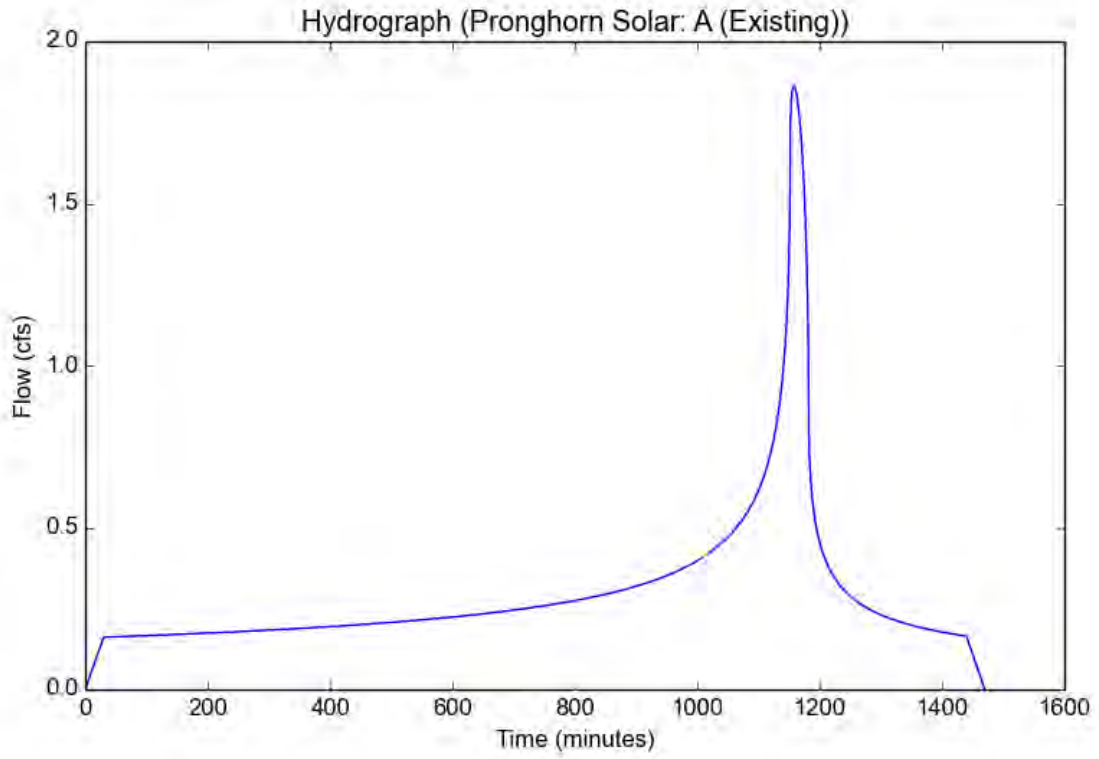
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Version: HydroCalc 1.0.3

Input Parameters

Project Name	Pronghorn Solar
Subarea ID	A (Existing)
Area (ac)	25.8
Flow Path Length (ft)	970.0
Flow Path Slope (vft/hft)	0.005
50-yr Rainfall Depth (in)	2.6
Percent Impervious	0.01
Soil Type	134
Design Storm Frequency	50-yr
Fire Factor	0.34
LID	False

Output Results

Modeled (50-yr) Rainfall Depth (in)	2.6
Peak Intensity (in/hr)	0.6683
Undeveloped Runoff Coefficient (Cu)	0.1
Developed Runoff Coefficient (Cd)	0.108
Time of Concentration (min)	30.0
Clear Peak Flow Rate (cfs)	1.862
Burned Peak Flow Rate (cfs)	3.4024
24-Hr Clear Runoff Volume (ac-ft)	0.5987
24-Hr Clear Runoff Volume (cu-ft)	26081.0034



Peak Flow Hydrologic Analysis

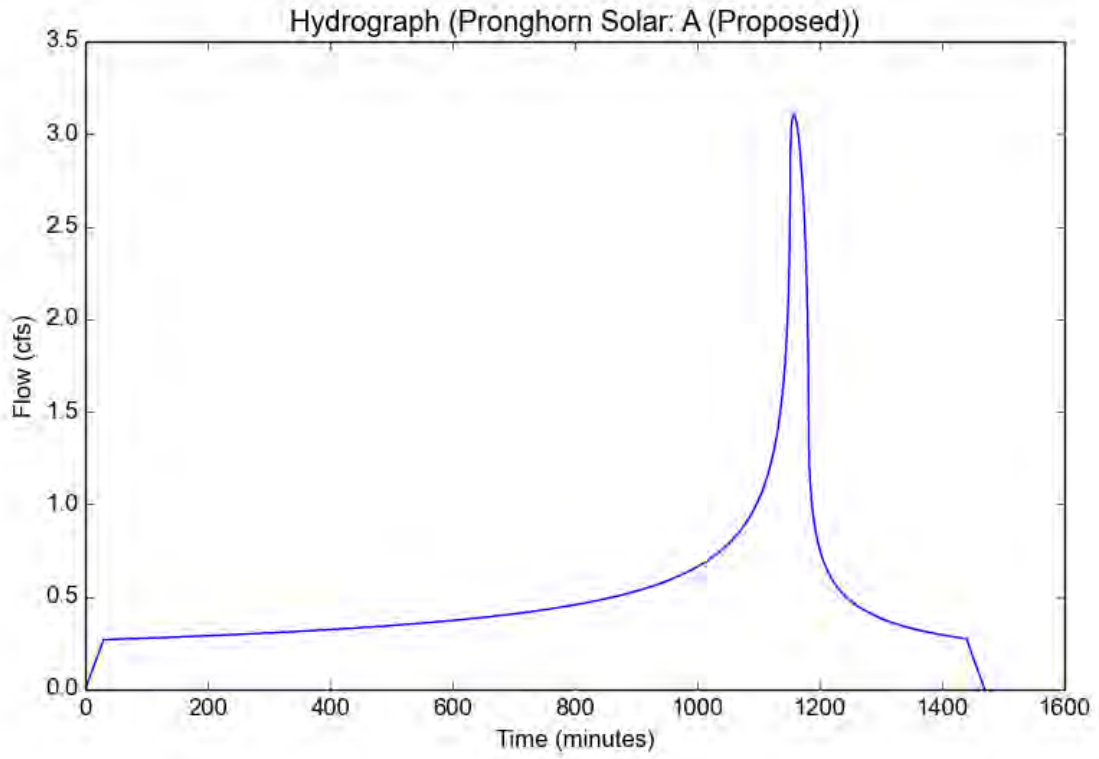
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Version: HydroCalc 1.0.3

Input Parameters

Project Name	Pronghorn Solar
Subarea ID	A (Proposed)
Area (ac)	25.8
Flow Path Length (ft)	970.0
Flow Path Slope (vft/hft)	0.005
50-yr Rainfall Depth (in)	2.6
Percent Impervious	0.1
Soil Type	134
Design Storm Frequency	50-yr
Fire Factor	0.34
LID	False

Output Results

Modeled (50-yr) Rainfall Depth (in)	2.6
Peak Intensity (in/hr)	0.6683
Undeveloped Runoff Coefficient (Cu)	0.1
Developed Runoff Coefficient (Cd)	0.18
Time of Concentration (min)	30.0
Clear Peak Flow Rate (cfs)	3.1034
Burned Peak Flow Rate (cfs)	4.5194
24-Hr Clear Runoff Volume (ac-ft)	0.9979
24-Hr Clear Runoff Volume (cu-ft)	43468.3391



Peak Flow Hydrologic Analysis

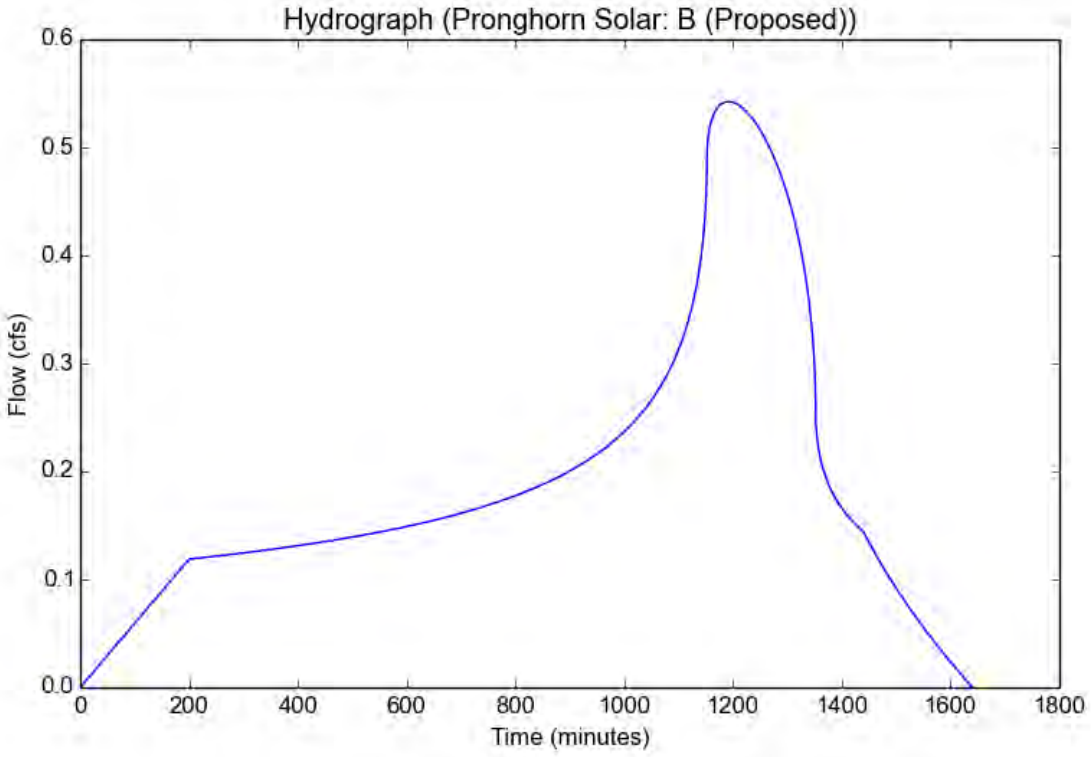
File location: X:/2024/24030/DRAINAGE/SWQDV SHEETS/20250905/24030_Pronghorn Solar - B 0.75 SWQDv.pdf
Version: HydroCalc 1.0.3

Input Parameters

Project Name	Pronghorn Solar
Subarea ID	B (Proposed)
Area (ac)	38.13
Flow Path Length (ft)	1550.0
Flow Path Slope (vft/hft)	0.005
0.75-inch Rainfall Depth (in)	0.75
Percent Impervious	0.1
Soil Type	134
Design Storm Frequency	0.75 inch storm
Fire Factor	0.34
LID	True

Output Results

Modeled (0.75 inch storm) Rainfall Depth (in)	0.75
Peak Intensity (in/hr)	0.079
Undeveloped Runoff Coefficient (Cu)	0.1
Developed Runoff Coefficient (Cd)	0.18
Time of Concentration (min)	200.0
Clear Peak Flow Rate (cfs)	0.5424
Burned Peak Flow Rate (cfs)	0.6457
24-Hr Clear Runoff Volume (ac-ft)	0.4257
24-Hr Clear Runoff Volume (cu-ft)	18541.8151



Peak Flow Hydrologic Analysis

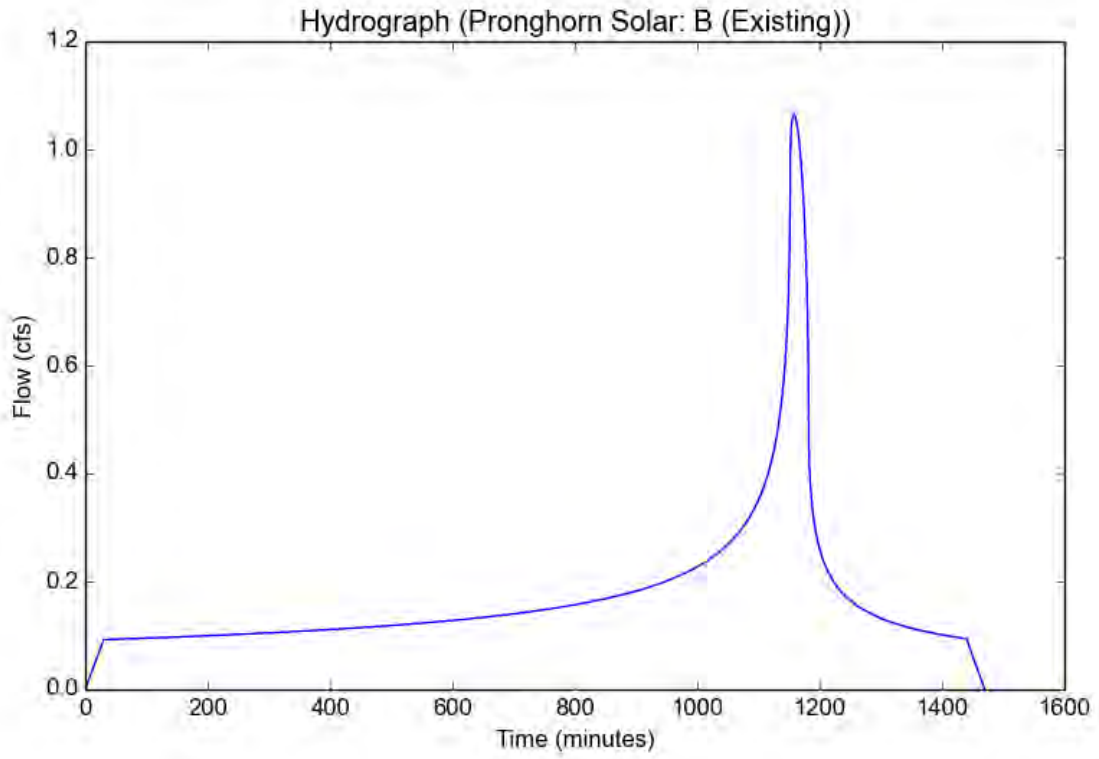
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Version: HydroCalc 1.0.3

Input Parameters

Project Name	Pronghorn Solar
Subarea ID	B (Existing)
Area (ac)	38.13
Flow Path Length (ft)	1550.0
Flow Path Slope (vft/hft)	0.005
50-yr Rainfall Depth (in)	2.6
Percent Impervious	0.01
Soil Type	134
Design Storm Frequency	2-yr
Fire Factor	0.34
LID	False

Output Results

Modeled (2-yr) Rainfall Depth (in)	1.0062
Peak Intensity (in/hr)	0.2586
Undeveloped Runoff Coefficient (Cu)	0.1
Developed Runoff Coefficient (Cd)	0.108
Time of Concentration (min)	30.0
Clear Peak Flow Rate (cfs)	1.065
Burned Peak Flow Rate (cfs)	1.7315
24-Hr Clear Runoff Volume (ac-ft)	0.3424
24-Hr Clear Runoff Volume (cu-ft)	14917.0299



Peak Flow Hydrologic Analysis

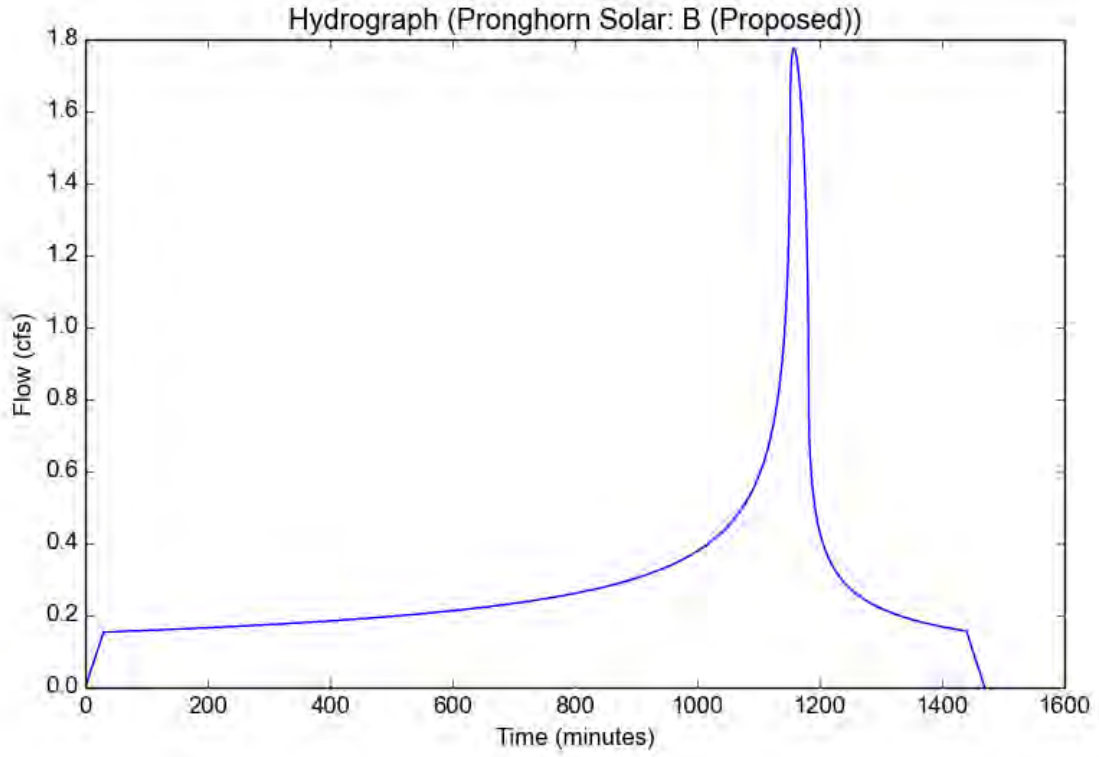
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Version: HydroCalc 1.0.3

Input Parameters

Project Name	Pronghorn Solar
Subarea ID	B (Proposed)
Area (ac)	38.13
Flow Path Length (ft)	1550.0
Flow Path Slope (vft/hft)	0.005
50-yr Rainfall Depth (in)	2.6
Percent Impervious	0.1
Soil Type	134
Design Storm Frequency	2-yr
Fire Factor	0.34
LID	False

Output Results

Modeled (2-yr) Rainfall Depth (in)	1.0062
Peak Intensity (in/hr)	0.2586
Undeveloped Runoff Coefficient (Cu)	0.1
Developed Runoff Coefficient (Cd)	0.18
Time of Concentration (min)	30.0
Clear Peak Flow Rate (cfs)	1.775
Burned Peak Flow Rate (cfs)	2.3877
24-Hr Clear Runoff Volume (ac-ft)	0.5707
24-Hr Clear Runoff Volume (cu-ft)	24861.7165



Peak Flow Hydrologic Analysis

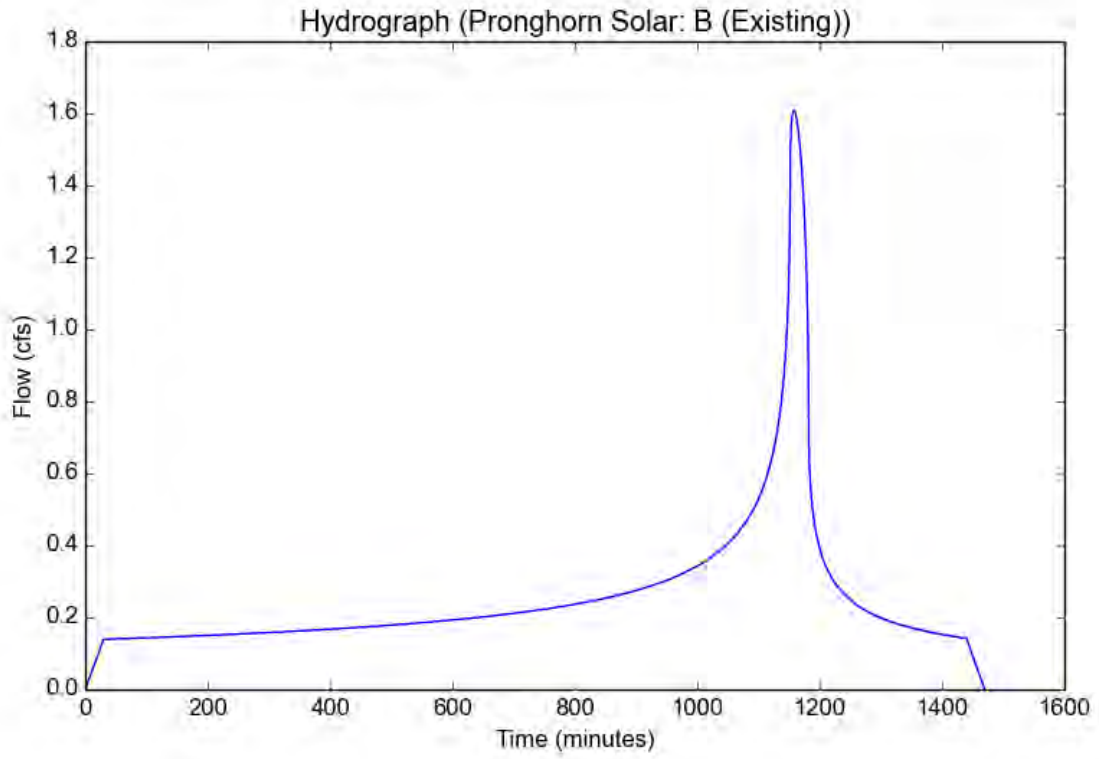
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Version: HydroCalc 1.0.3

Input Parameters

Project Name	Pronghorn Solar
Subarea ID	B (Existing)
Area (ac)	38.13
Flow Path Length (ft)	1550.0
Flow Path Slope (vft/hft)	0.005
50-yr Rainfall Depth (in)	2.6
Percent Impervious	0.01
Soil Type	134
Design Storm Frequency	5-yr
Fire Factor	0.34
LID	False

Output Results

Modeled (5-yr) Rainfall Depth (in)	1.5184
Peak Intensity (in/hr)	0.3903
Undeveloped Runoff Coefficient (Cu)	0.1
Developed Runoff Coefficient (Cd)	0.108
Time of Concentration (min)	30.0
Clear Peak Flow Rate (cfs)	1.6071
Burned Peak Flow Rate (cfs)	2.7571
24-Hr Clear Runoff Volume (ac-ft)	0.5168
24-Hr Clear Runoff Volume (cu-ft)	22510.4534



Peak Flow Hydrologic Analysis

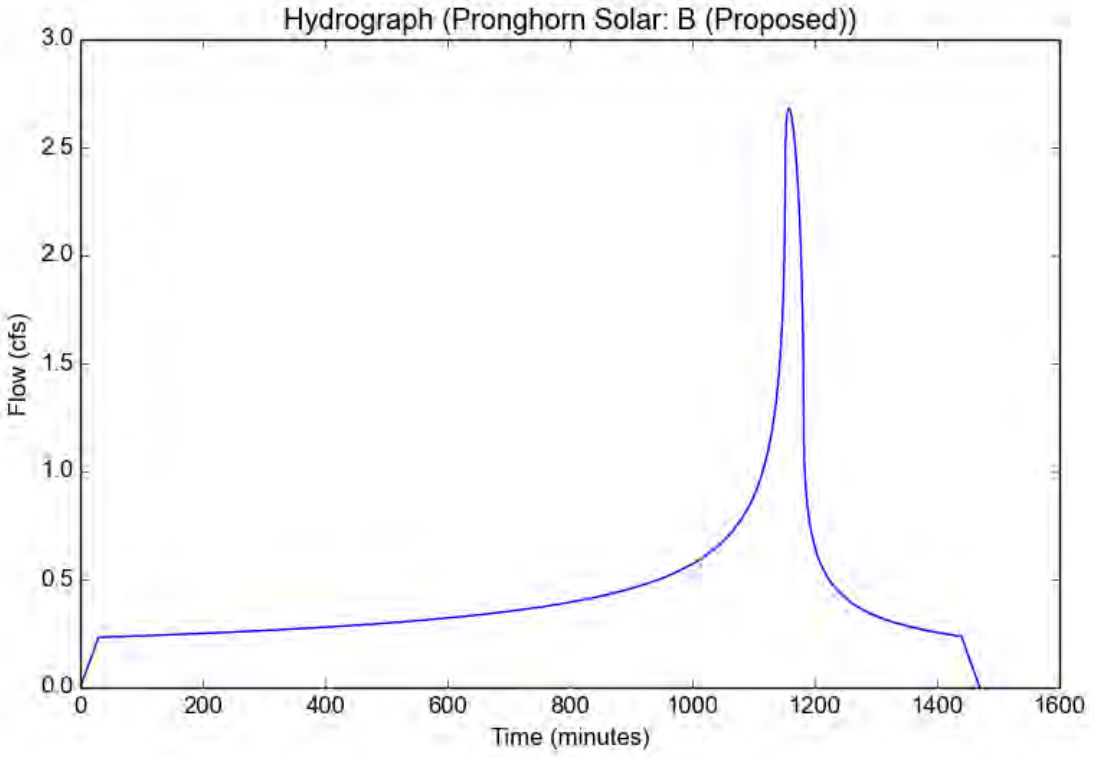
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Version: HydroCalc 1.0.3

Input Parameters

Project Name	Pronghorn Solar
Subarea ID	B (Proposed)
Area (ac)	38.13
Flow Path Length (ft)	1550.0
Flow Path Slope (vft/hft)	0.005
50-yr Rainfall Depth (in)	2.6
Percent Impervious	0.1
Soil Type	134
Design Storm Frequency	5-yr
Fire Factor	0.34
LID	False

Output Results

Modeled (5-yr) Rainfall Depth (in)	1.5184
Peak Intensity (in/hr)	0.3903
Undeveloped Runoff Coefficient (Cu)	0.1
Developed Runoff Coefficient (Cd)	0.18
Time of Concentration (min)	30.0
Clear Peak Flow Rate (cfs)	2.6785
Burned Peak Flow Rate (cfs)	3.7357
24-Hr Clear Runoff Volume (ac-ft)	0.8613
24-Hr Clear Runoff Volume (cu-ft)	37517.4224



Peak Flow Hydrologic Analysis

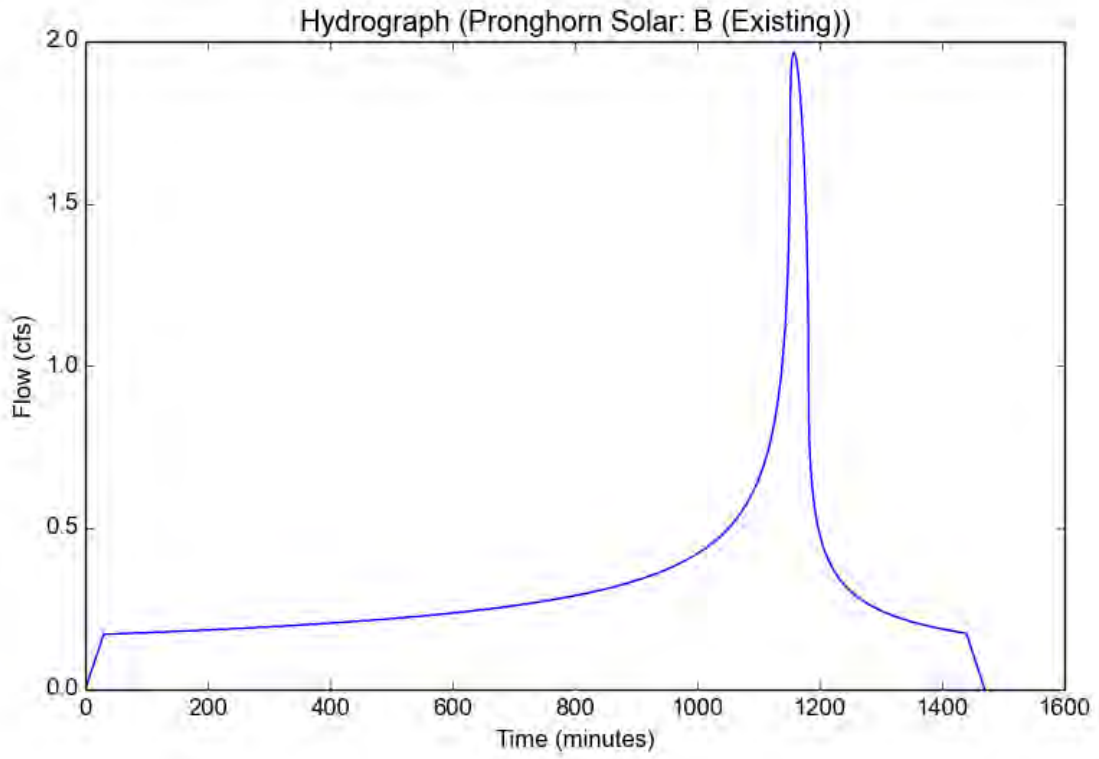
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Version: HydroCalc 1.0.3

Input Parameters

Project Name	Pronghorn Solar
Subarea ID	B (Existing)
Area (ac)	38.13
Flow Path Length (ft)	1550.0
Flow Path Slope (vft/hft)	0.005
50-yr Rainfall Depth (in)	2.6
Percent Impervious	0.01
Soil Type	134
Design Storm Frequency	10-yr
Fire Factor	0.34
LID	False

Output Results

Modeled (10-yr) Rainfall Depth (in)	1.8564
Peak Intensity (in/hr)	0.4771
Undeveloped Runoff Coefficient (Cu)	0.1
Developed Runoff Coefficient (Cd)	0.108
Time of Concentration (min)	30.0
Clear Peak Flow Rate (cfs)	1.9649
Burned Peak Flow Rate (cfs)	3.4542
24-Hr Clear Runoff Volume (ac-ft)	0.6318
24-Hr Clear Runoff Volume (cu-ft)	27521.342



Peak Flow Hydrologic Analysis

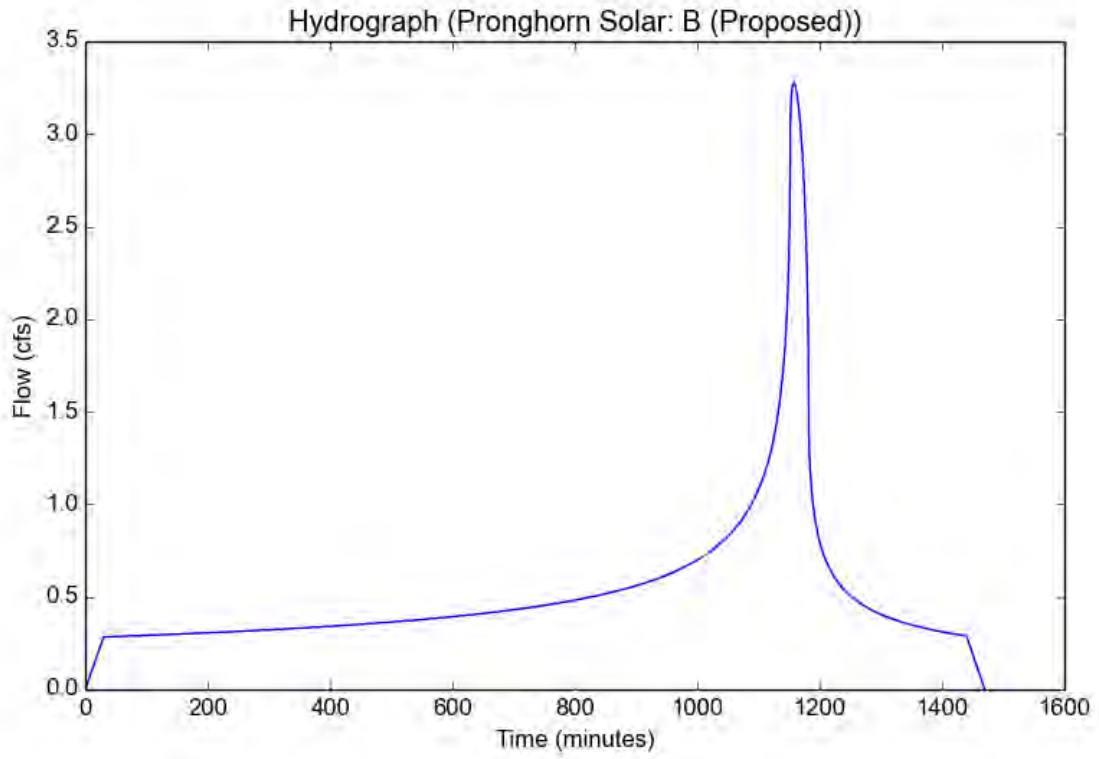
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Version: HydroCalc 1.0.3

Input Parameters

Project Name	Pronghorn Solar
Subarea ID	B (Proposed)
Area (ac)	38.13
Flow Path Length (ft)	1550.0
Flow Path Slope (vft/hft)	0.005
50-yr Rainfall Depth (in)	2.6
Percent Impervious	0.1
Soil Type	134
Design Storm Frequency	10-yr
Fire Factor	0.34
LID	False

Output Results

Modeled (10-yr) Rainfall Depth (in)	1.8564
Peak Intensity (in/hr)	0.4771
Undeveloped Runoff Coefficient (Cu)	0.1
Developed Runoff Coefficient (Cd)	0.18
Time of Concentration (min)	30.0
Clear Peak Flow Rate (cfs)	3.2748
Burned Peak Flow Rate (cfs)	4.6439
24-Hr Clear Runoff Volume (ac-ft)	1.053
24-Hr Clear Runoff Volume (cu-ft)	45868.9034



Peak Flow Hydrologic Analysis

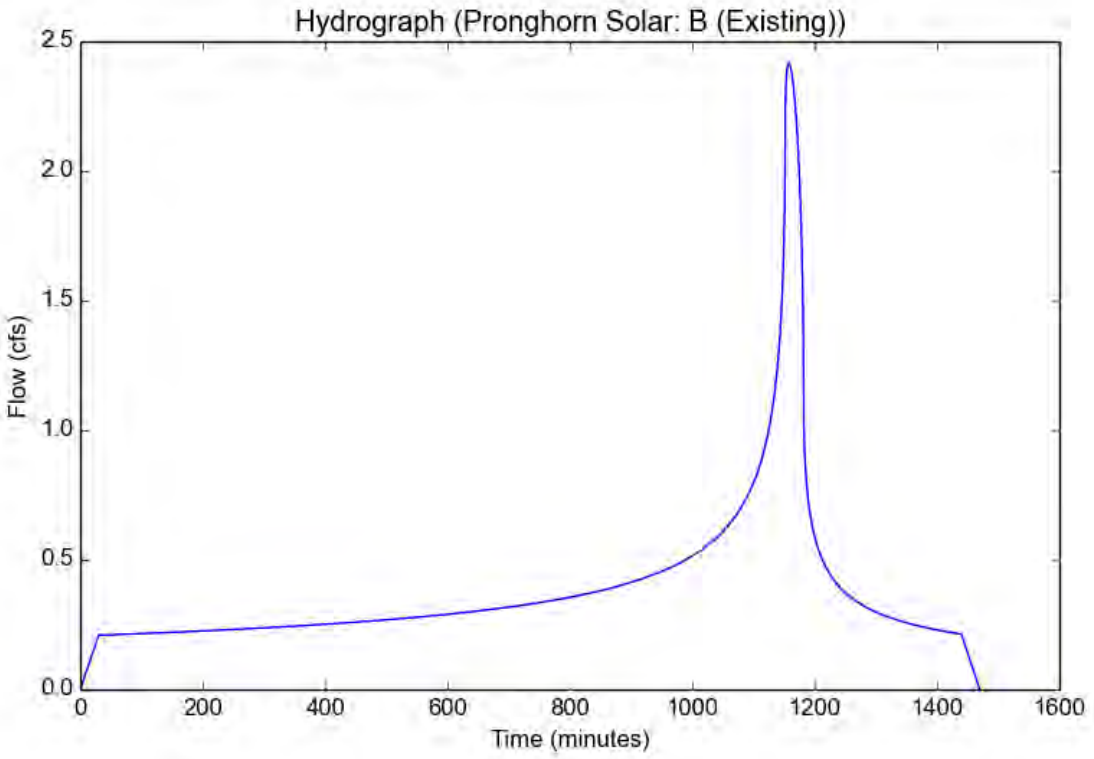
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Version: HydroCalc 1.0.3

Input Parameters

Project Name	Pronghorn Solar
Subarea ID	B (Existing)
Area (ac)	38.13
Flow Path Length (ft)	1550.0
Flow Path Slope (vft/hft)	0.005
50-yr Rainfall Depth (in)	2.6
Percent Impervious	0.01
Soil Type	134
Design Storm Frequency	25-yr
Fire Factor	0.34
LID	False

Output Results

Modeled (25-yr) Rainfall Depth (in)	2.2828
Peak Intensity (in/hr)	0.5867
Undeveloped Runoff Coefficient (Cu)	0.1
Developed Runoff Coefficient (Cd)	0.108
Time of Concentration (min)	30.0
Clear Peak Flow Rate (cfs)	2.4162
Burned Peak Flow Rate (cfs)	4.351
24-Hr Clear Runoff Volume (ac-ft)	0.7769
24-Hr Clear Runoff Volume (cu-ft)	33842.7707



Peak Flow Hydrologic Analysis

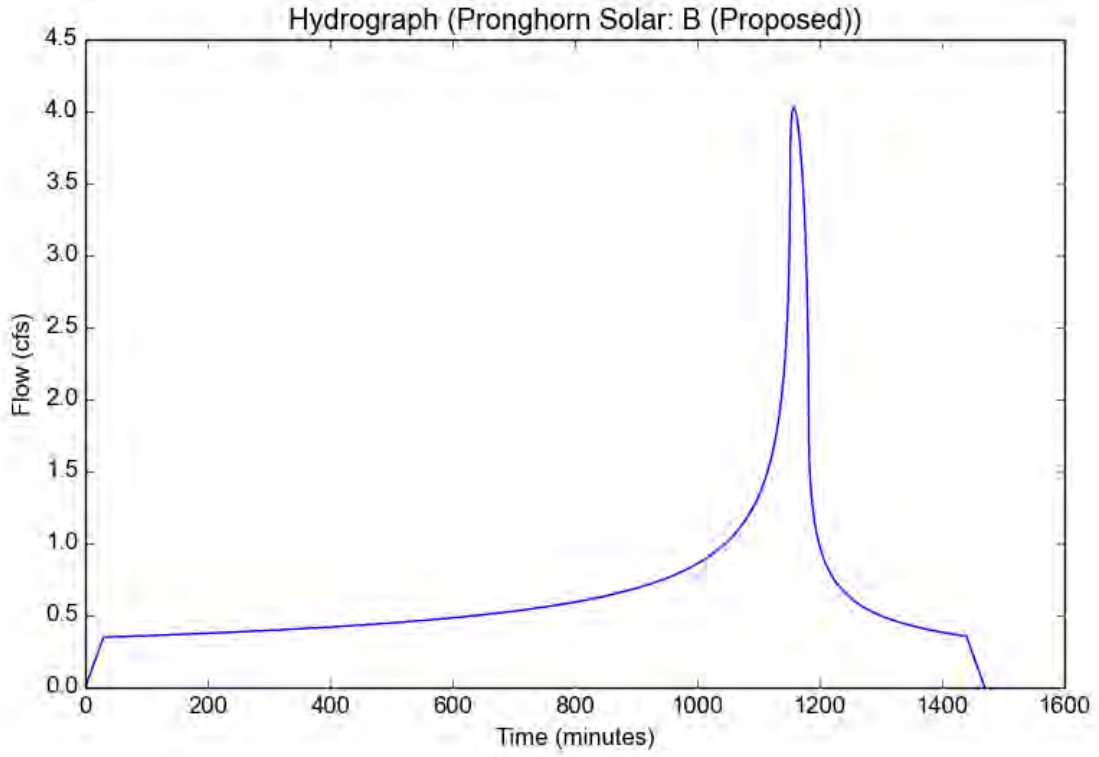
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Version: HydroCalc 1.0.3

Input Parameters

Project Name	Pronghorn Solar
Subarea ID	B (Proposed)
Area (ac)	38.13
Flow Path Length (ft)	1550.0
Flow Path Slope (vft/hft)	0.005
50-yr Rainfall Depth (in)	2.6
Percent Impervious	0.1
Soil Type	134
Design Storm Frequency	25-yr
Fire Factor	0.34
LID	False

Output Results

Modeled (25-yr) Rainfall Depth (in)	2.2828
Peak Intensity (in/hr)	0.5867
Undeveloped Runoff Coefficient (Cu)	0.1
Developed Runoff Coefficient (Cd)	0.18
Time of Concentration (min)	30.0
Clear Peak Flow Rate (cfs)	4.027
Burned Peak Flow Rate (cfs)	5.8056
24-Hr Clear Runoff Volume (ac-ft)	1.2949
24-Hr Clear Runoff Volume (cu-ft)	56404.6179



Peak Flow Hydrologic Analysis

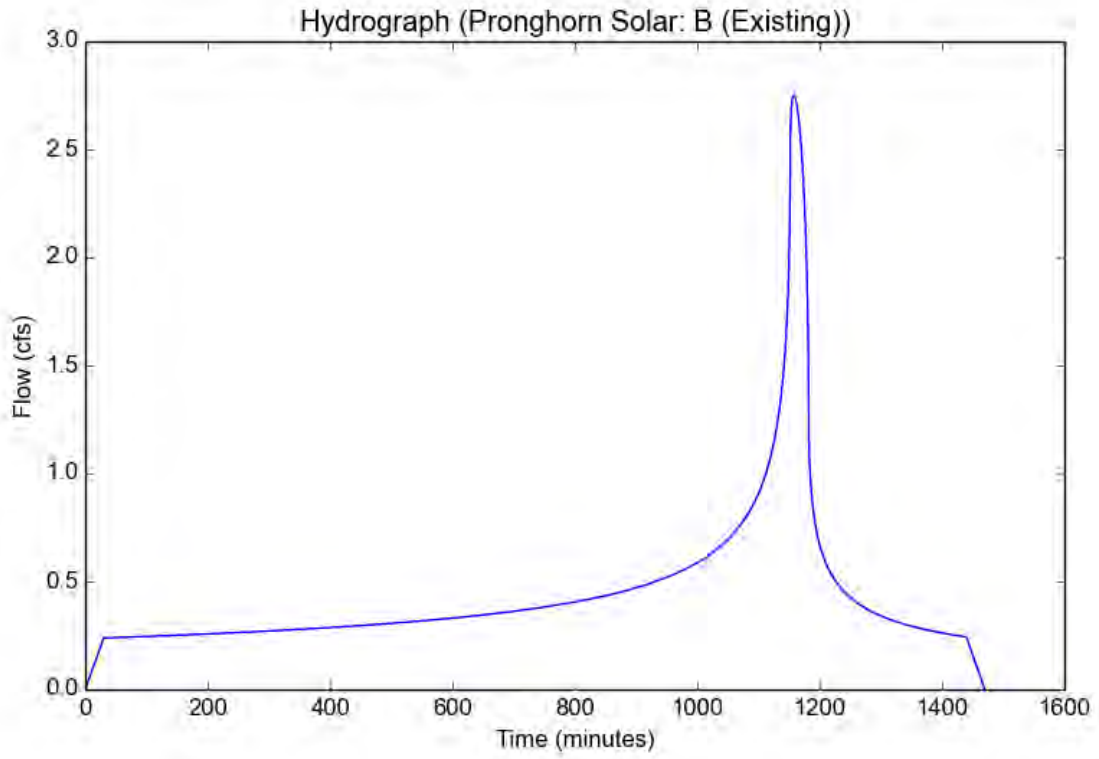
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Version: HydroCalc 1.0.3

Input Parameters

Project Name	Pronghorn Solar
Subarea ID	B (Existing)
Area (ac)	38.13
Flow Path Length (ft)	1550.0
Flow Path Slope (vft/hft)	0.005
50-yr Rainfall Depth (in)	2.6
Percent Impervious	0.01
Soil Type	134
Design Storm Frequency	50-yr
Fire Factor	0.34
LID	False

Output Results

Modeled (50-yr) Rainfall Depth (in)	2.6
Peak Intensity (in/hr)	0.6683
Undeveloped Runoff Coefficient (Cu)	0.1
Developed Runoff Coefficient (Cd)	0.108
Time of Concentration (min)	30.0
Clear Peak Flow Rate (cfs)	2.7519
Burned Peak Flow Rate (cfs)	5.0284
24-Hr Clear Runoff Volume (ac-ft)	0.8849
24-Hr Clear Runoff Volume (cu-ft)	38545.2969



Peak Flow Hydrologic Analysis

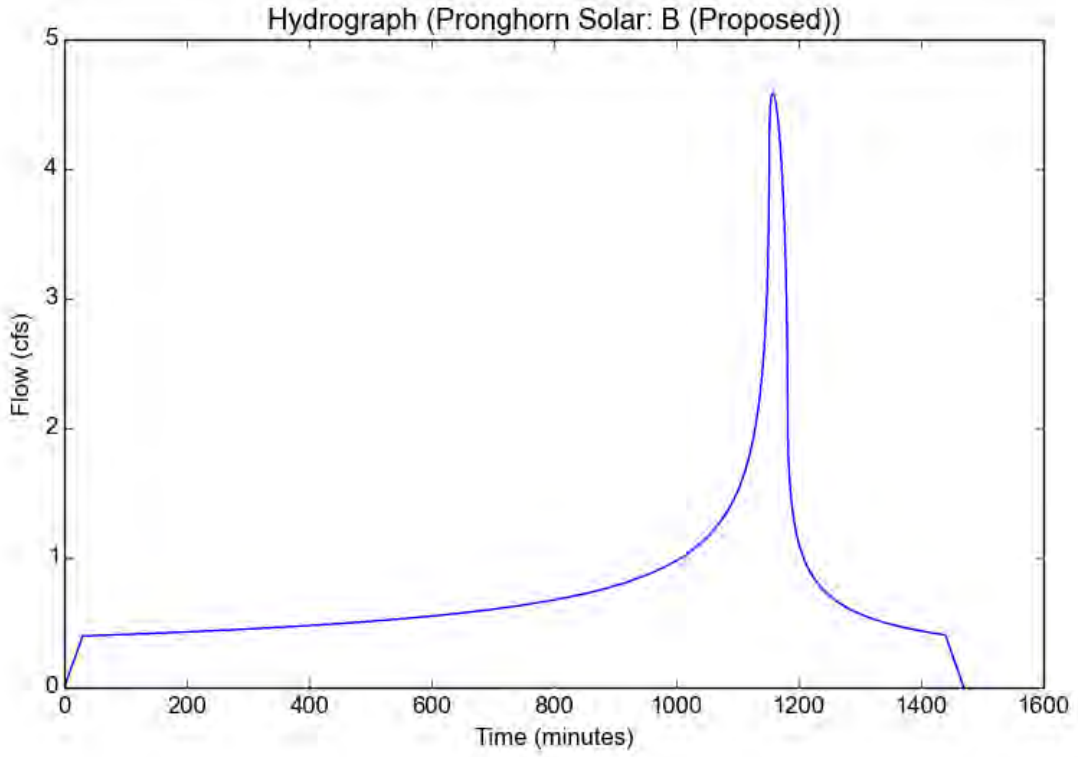
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Version: HydroCalc 1.0.3

Input Parameters

Project Name	Pronghorn Solar
Subarea ID	B (Proposed)
Area (ac)	38.13
Flow Path Length (ft)	1550.0
Flow Path Slope (vft/hft)	0.005
50-yr Rainfall Depth (in)	2.6
Percent Impervious	0.1
Soil Type	134
Design Storm Frequency	50-yr
Fire Factor	0.34
LID	False

Output Results

Modeled (50-yr) Rainfall Depth (in)	2.6
Peak Intensity (in/hr)	0.6683
Undeveloped Runoff Coefficient (Cu)	0.1
Developed Runoff Coefficient (Cd)	0.18
Time of Concentration (min)	30.0
Clear Peak Flow Rate (cfs)	4.5865
Burned Peak Flow Rate (cfs)	6.6793
24-Hr Clear Runoff Volume (ac-ft)	1.4748
24-Hr Clear Runoff Volume (cu-ft)	64242.1616



Peak Flow Hydrologic Analysis

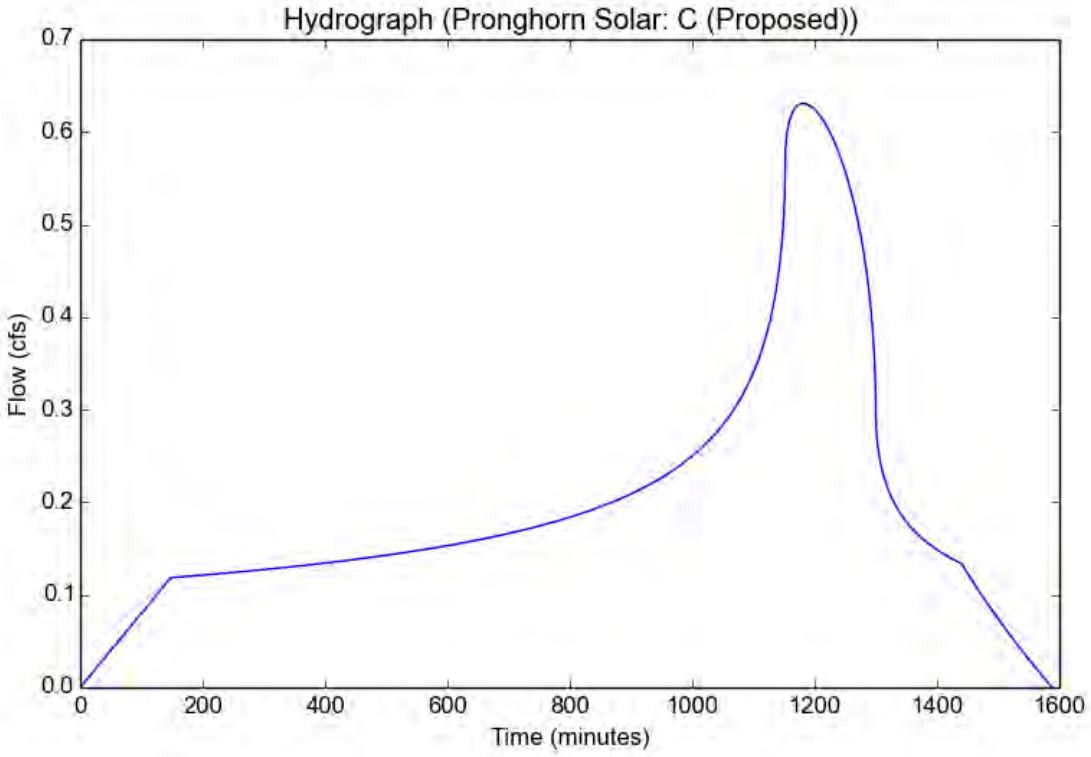
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Version: HydroCalc 1.0.3

Input Parameters

Project Name	Pronghorn Solar
Subarea ID	C (Proposed)
Area (ac)	38.49
Flow Path Length (ft)	970.0
Flow Path Slope (vft/hft)	0.005
0.75-inch Rainfall Depth (in)	0.75
Percent Impervious	0.1
Soil Type	134
Design Storm Frequency	0.75 inch storm
Fire Factor	0.34
LID	True

Output Results

Modeled (0.75 inch storm) Rainfall Depth (in)	0.75
Peak Intensity (in/hr)	0.091
Undeveloped Runoff Coefficient (Cu)	0.1
Developed Runoff Coefficient (Cd)	0.18
Time of Concentration (min)	148.0
Clear Peak Flow Rate (cfs)	0.6308
Burned Peak Flow Rate (cfs)	0.7632
24-Hr Clear Runoff Volume (ac-ft)	0.4296
24-Hr Clear Runoff Volume (cu-ft)	18711.8026



Peak Flow Hydrologic Analysis

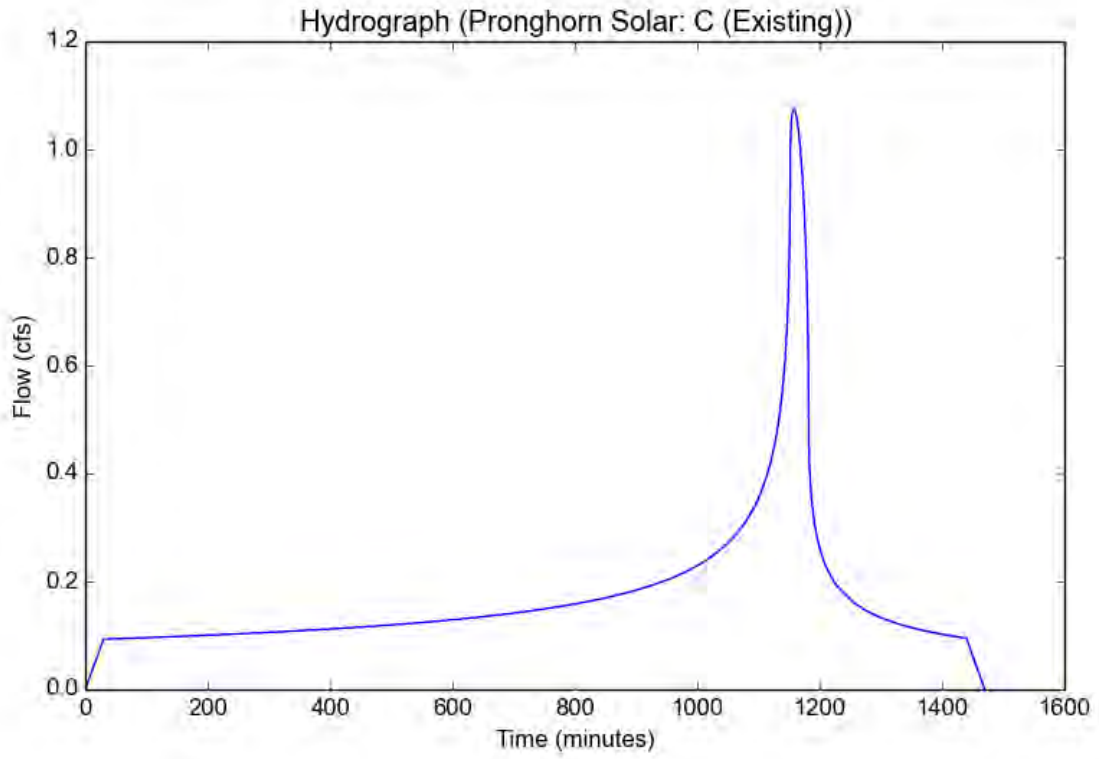
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Version: HydroCalc 1.0.3

Input Parameters

Project Name	Pronghorn Solar
Subarea ID	C (Existing)
Area (ac)	38.49
Flow Path Length (ft)	970.0
Flow Path Slope (vft/hft)	0.005
50-yr Rainfall Depth (in)	2.6
Percent Impervious	0.01
Soil Type	134
Design Storm Frequency	2-yr
Fire Factor	0.34
LID	False

Output Results

Modeled (2-yr) Rainfall Depth (in)	1.0062
Peak Intensity (in/hr)	0.2586
Undeveloped Runoff Coefficient (Cu)	0.1
Developed Runoff Coefficient (Cd)	0.108
Time of Concentration (min)	30.0
Clear Peak Flow Rate (cfs)	1.075
Burned Peak Flow Rate (cfs)	1.7478
24-Hr Clear Runoff Volume (ac-ft)	0.3457
24-Hr Clear Runoff Volume (cu-ft)	15057.8673



Peak Flow Hydrologic Analysis

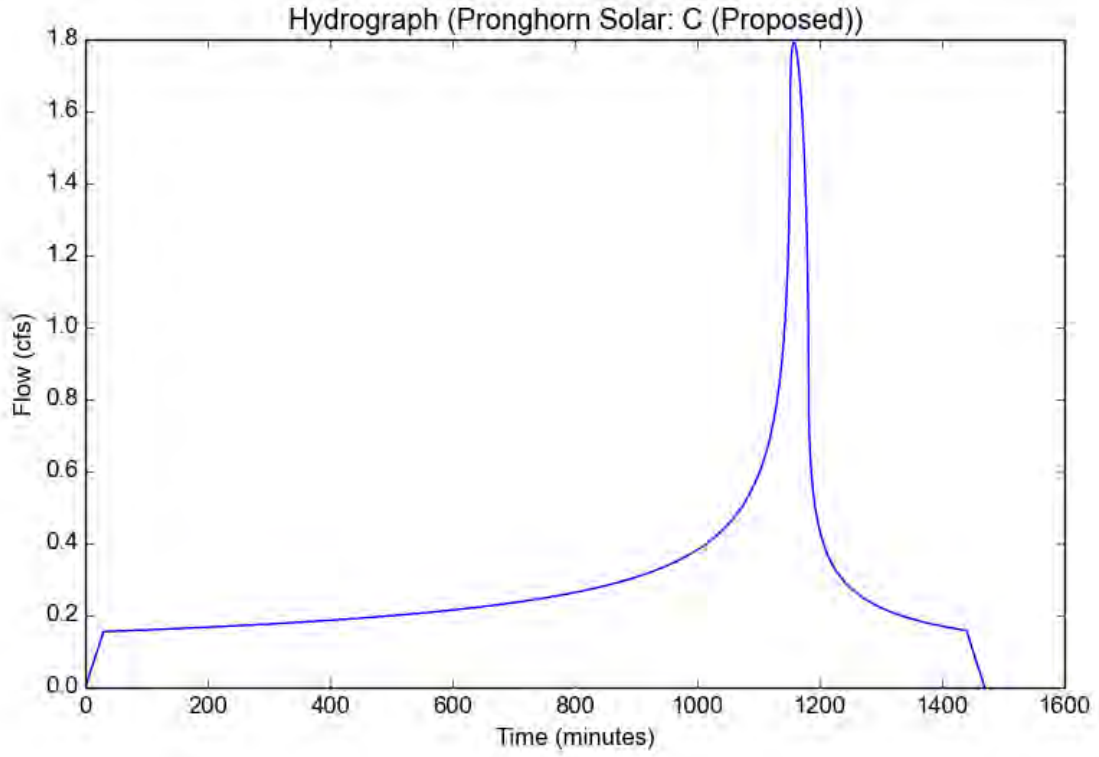
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Version: HydroCalc 1.0.3

Input Parameters

Project Name	Pronghorn Solar
Subarea ID	C (Proposed)
Area (ac)	38.49
Flow Path Length (ft)	970.0
Flow Path Slope (vft/hft)	0.005
50-yr Rainfall Depth (in)	2.6
Percent Impervious	0.1
Soil Type	134
Design Storm Frequency	2-yr
Fire Factor	0.34
LID	False

Output Results

Modeled (2-yr) Rainfall Depth (in)	1.0062
Peak Intensity (in/hr)	0.2586
Undeveloped Runoff Coefficient (Cu)	0.1
Developed Runoff Coefficient (Cd)	0.18
Time of Concentration (min)	30.0
Clear Peak Flow Rate (cfs)	1.7917
Burned Peak Flow Rate (cfs)	2.4102
24-Hr Clear Runoff Volume (ac-ft)	0.5761
24-Hr Clear Runoff Volume (cu-ft)	25096.4456



Peak Flow Hydrologic Analysis

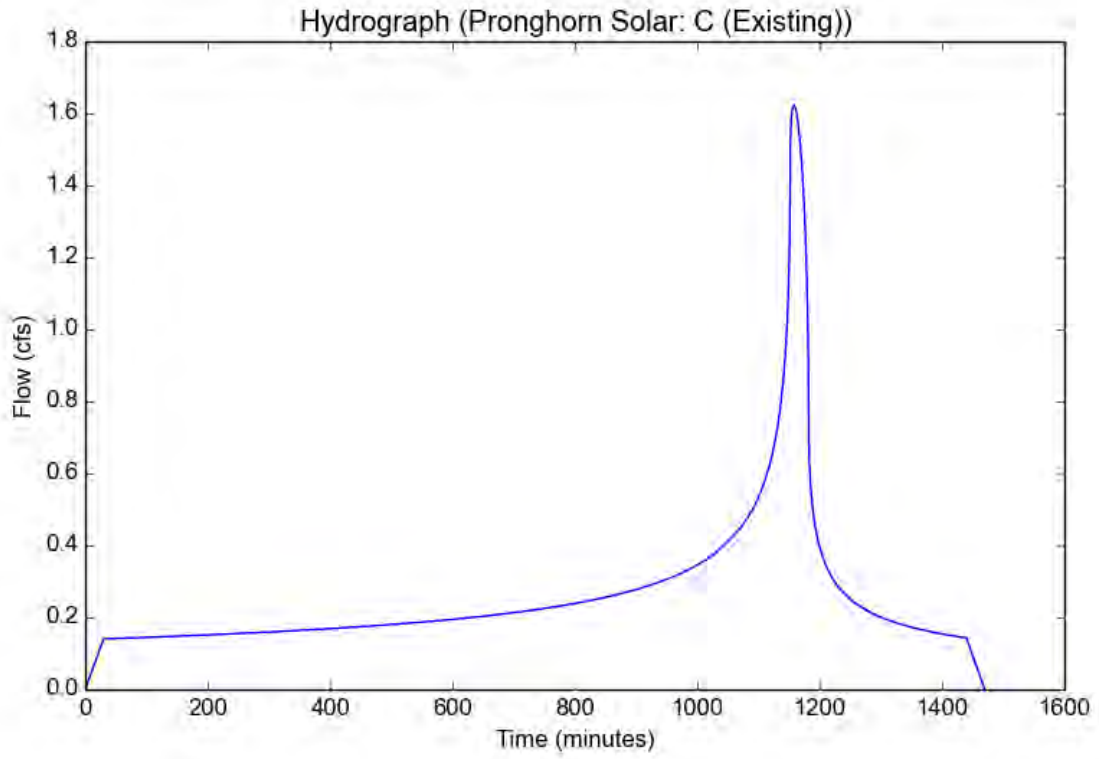
File location: X:/2024/24030/DRAINAGE/SWQDV SHEETS/20250815/24030_Pronghorn Solar - C 5YR EXIST.pdf
Version: HydroCalc 1.0.3

Input Parameters

Project Name	Pronghorn Solar
Subarea ID	C (Existing)
Area (ac)	38.49
Flow Path Length (ft)	970.0
Flow Path Slope (vft/hft)	0.005
50-yr Rainfall Depth (in)	2.6
Percent Impervious	0.01
Soil Type	134
Design Storm Frequency	5-yr
Fire Factor	0.34
LID	False

Output Results

Modeled (5-yr) Rainfall Depth (in)	1.5184
Peak Intensity (in/hr)	0.3903
Undeveloped Runoff Coefficient (Cu)	0.1
Developed Runoff Coefficient (Cd)	0.108
Time of Concentration (min)	30.0
Clear Peak Flow Rate (cfs)	1.6223
Burned Peak Flow Rate (cfs)	2.7831
24-Hr Clear Runoff Volume (ac-ft)	0.5216
24-Hr Clear Runoff Volume (cu-ft)	22722.9833



Peak Flow Hydrologic Analysis

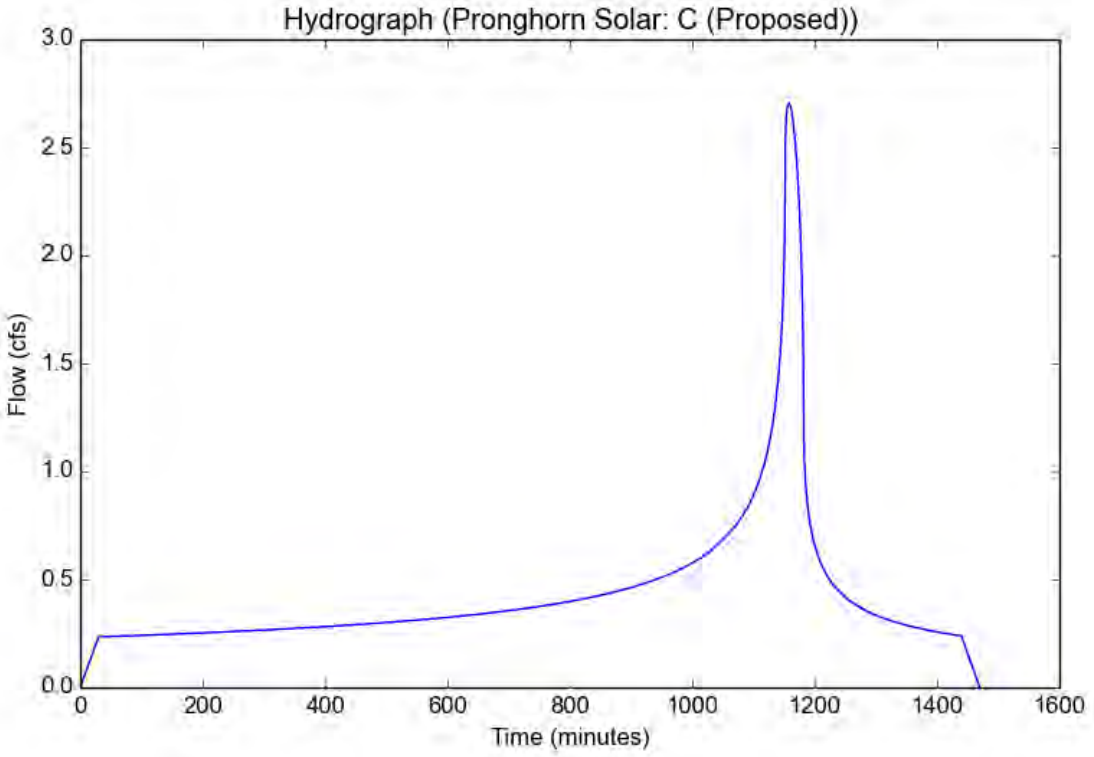
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Version: HydroCalc 1.0.3

Input Parameters

Project Name	Pronghorn Solar
Subarea ID	C (Proposed)
Area (ac)	38.49
Flow Path Length (ft)	970.0
Flow Path Slope (vft/hft)	0.005
50-yr Rainfall Depth (in)	2.6
Percent Impervious	0.1
Soil Type	134
Design Storm Frequency	5-yr
Fire Factor	0.34
LID	False

Output Results

Modeled (5-yr) Rainfall Depth (in)	1.5184
Peak Intensity (in/hr)	0.3903
Undeveloped Runoff Coefficient (Cu)	0.1
Developed Runoff Coefficient (Cd)	0.18
Time of Concentration (min)	30.0
Clear Peak Flow Rate (cfs)	2.7038
Burned Peak Flow Rate (cfs)	3.7709
24-Hr Clear Runoff Volume (ac-ft)	0.8694
24-Hr Clear Runoff Volume (cu-ft)	37871.6388



Peak Flow Hydrologic Analysis

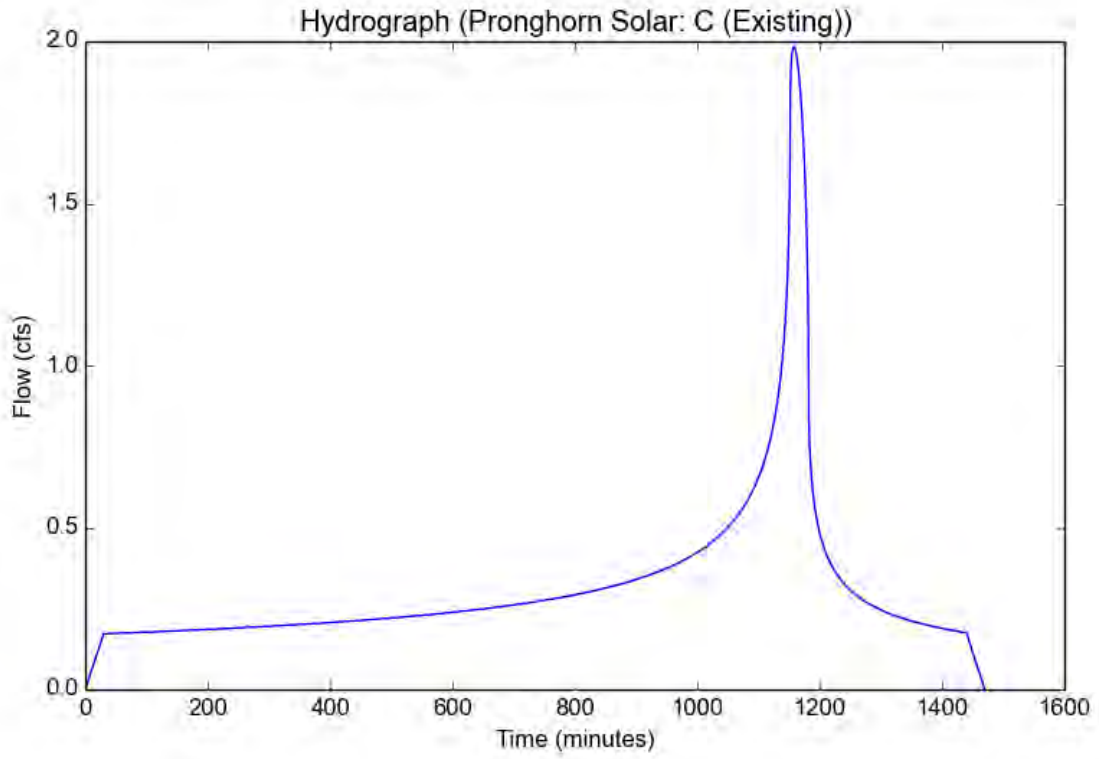
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Version: HydroCalc 1.0.3

Input Parameters

Project Name	Pronghorn Solar
Subarea ID	C (Existing)
Area (ac)	38.49
Flow Path Length (ft)	970.0
Flow Path Slope (vft/hft)	0.005
50-yr Rainfall Depth (in)	2.6
Percent Impervious	0.01
Soil Type	134
Design Storm Frequency	10-yr
Fire Factor	0.34
LID	False

Output Results

Modeled (10-yr) Rainfall Depth (in)	1.8564
Peak Intensity (in/hr)	0.4771
Undeveloped Runoff Coefficient (Cu)	0.1
Developed Runoff Coefficient (Cd)	0.108
Time of Concentration (min)	30.0
Clear Peak Flow Rate (cfs)	1.9834
Burned Peak Flow Rate (cfs)	3.4868
24-Hr Clear Runoff Volume (ac-ft)	0.6378
24-Hr Clear Runoff Volume (cu-ft)	27781.1816



Peak Flow Hydrologic Analysis

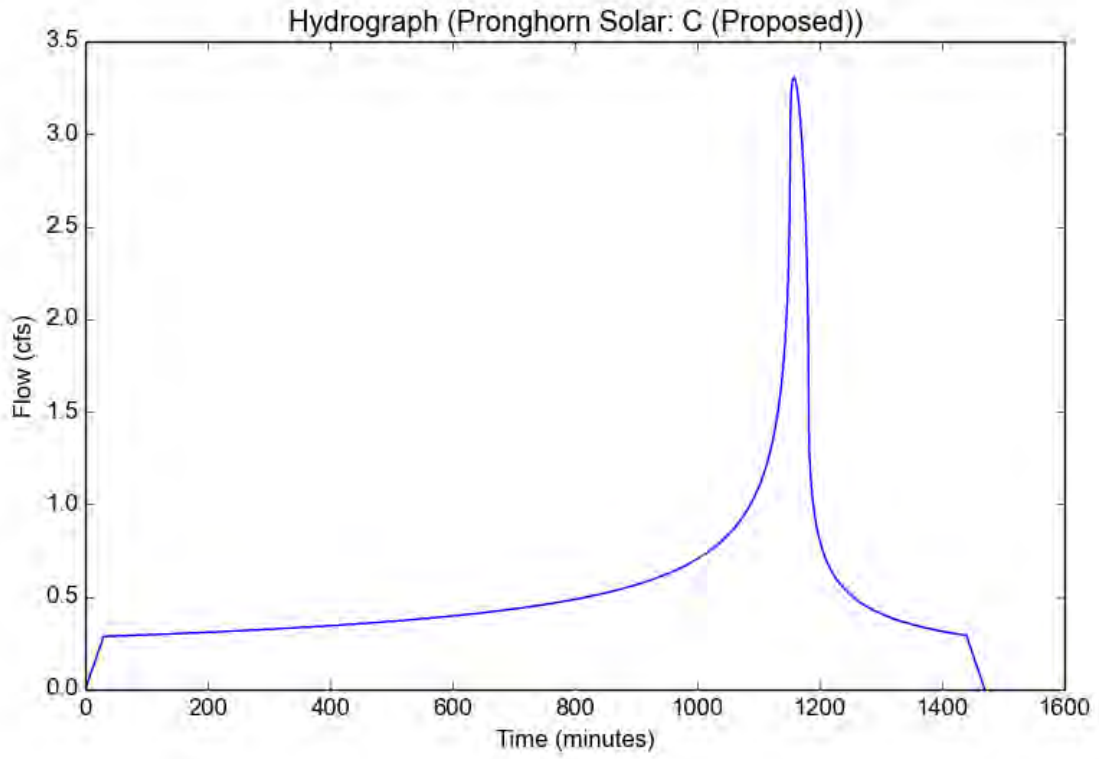
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Version: HydroCalc 1.0.3

Input Parameters

Project Name	Pronghorn Solar
Subarea ID	C (Proposed)
Area (ac)	38.49
Flow Path Length (ft)	970.0
Flow Path Slope (vft/hft)	0.005
50-yr Rainfall Depth (in)	2.6
Percent Impervious	0.1
Soil Type	134
Design Storm Frequency	10-yr
Fire Factor	0.34
LID	False

Output Results

Modeled (10-yr) Rainfall Depth (in)	1.8564
Peak Intensity (in/hr)	0.4771
Undeveloped Runoff Coefficient (Cu)	0.1
Developed Runoff Coefficient (Cd)	0.18
Time of Concentration (min)	30.0
Clear Peak Flow Rate (cfs)	3.3057
Burned Peak Flow Rate (cfs)	4.6878
24-Hr Clear Runoff Volume (ac-ft)	1.0629
24-Hr Clear Runoff Volume (cu-ft)	46301.9693



Peak Flow Hydrologic Analysis

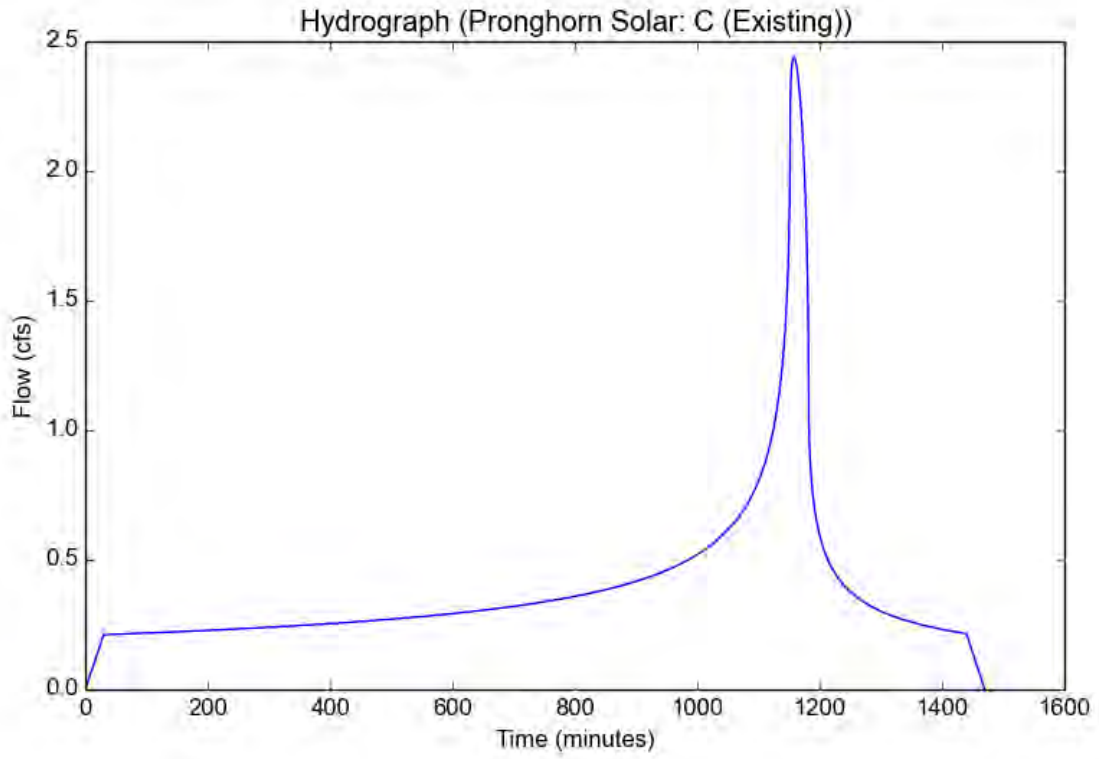
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Version: HydroCalc 1.0.3

Input Parameters

Project Name	Pronghorn Solar
Subarea ID	C (Existing)
Area (ac)	38.49
Flow Path Length (ft)	970.0
Flow Path Slope (vft/hft)	0.005
50-yr Rainfall Depth (in)	2.6
Percent Impervious	0.01
Soil Type	134
Design Storm Frequency	25-yr
Fire Factor	0.34
LID	False

Output Results

Modeled (25-yr) Rainfall Depth (in)	2.2828
Peak Intensity (in/hr)	0.5867
Undeveloped Runoff Coefficient (Cu)	0.1
Developed Runoff Coefficient (Cd)	0.108
Time of Concentration (min)	30.0
Clear Peak Flow Rate (cfs)	2.439
Burned Peak Flow Rate (cfs)	4.3921
24-Hr Clear Runoff Volume (ac-ft)	0.7843
24-Hr Clear Runoff Volume (cu-ft)	34162.2933



Peak Flow Hydrologic Analysis

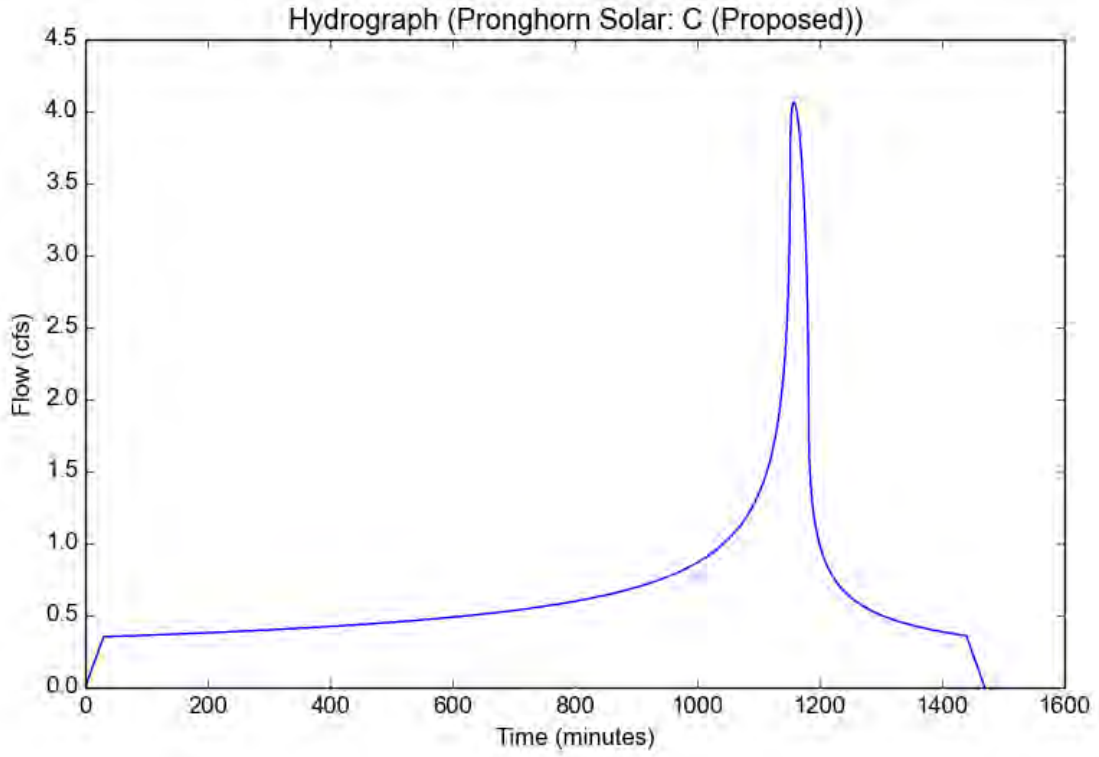
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Version: HydroCalc 1.0.3

Input Parameters

Project Name	Pronghorn Solar
Subarea ID	C (Proposed)
Area (ac)	38.49
Flow Path Length (ft)	970.0
Flow Path Slope (vft/hft)	0.005
50-yr Rainfall Depth (in)	2.6
Percent Impervious	0.1
Soil Type	134
Design Storm Frequency	25-yr
Fire Factor	0.34
LID	False

Output Results

Modeled (25-yr) Rainfall Depth (in)	2.2828
Peak Intensity (in/hr)	0.5867
Undeveloped Runoff Coefficient (Cu)	0.1
Developed Runoff Coefficient (Cd)	0.18
Time of Concentration (min)	30.0
Clear Peak Flow Rate (cfs)	4.065
Burned Peak Flow Rate (cfs)	5.8604
24-Hr Clear Runoff Volume (ac-ft)	1.3071
24-Hr Clear Runoff Volume (cu-ft)	56937.1556



Peak Flow Hydrologic Analysis

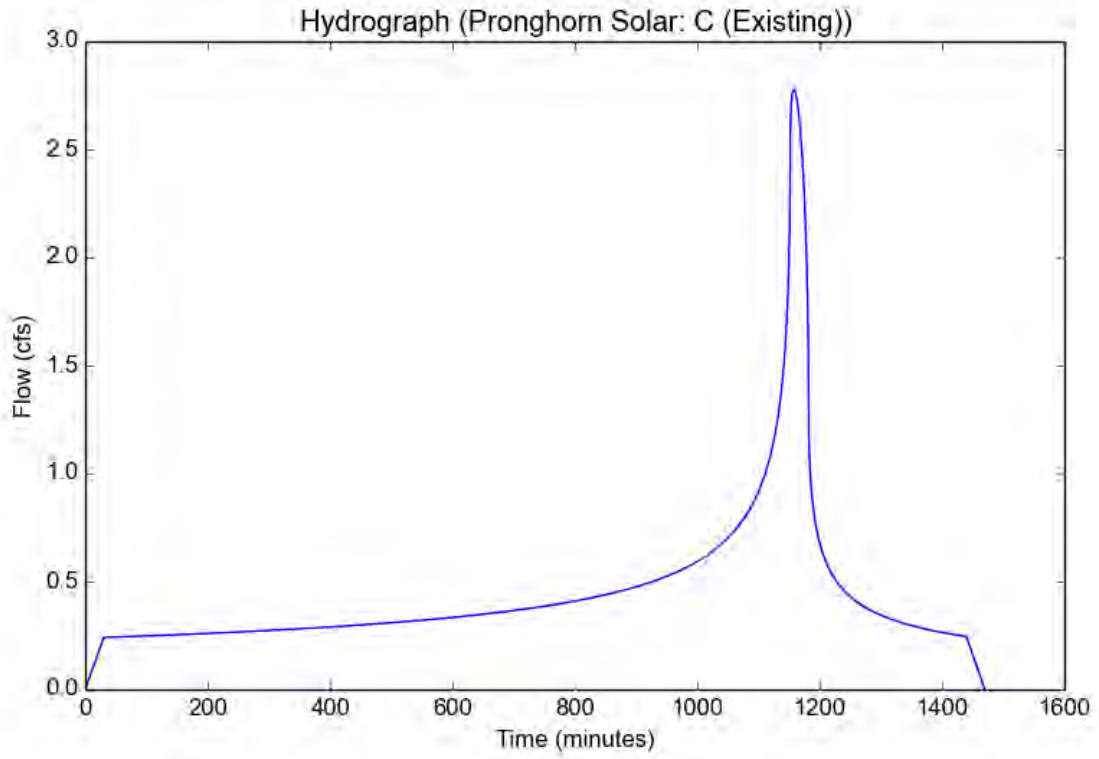
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Version: HydroCalc 1.0.3

Input Parameters

Project Name	Pronghorn Solar
Subarea ID	C (Existing)
Area (ac)	38.49
Flow Path Length (ft)	970.0
Flow Path Slope (vft/hft)	0.005
50-yr Rainfall Depth (in)	2.6
Percent Impervious	0.01
Soil Type	134
Design Storm Frequency	50-yr
Fire Factor	0.34
LID	False

Output Results

Modeled (50-yr) Rainfall Depth (in)	2.6
Peak Intensity (in/hr)	0.6683
Undeveloped Runoff Coefficient (Cu)	0.1
Developed Runoff Coefficient (Cd)	0.108
Time of Concentration (min)	30.0
Clear Peak Flow Rate (cfs)	2.7779
Burned Peak Flow Rate (cfs)	5.0759
24-Hr Clear Runoff Volume (ac-ft)	0.8932
24-Hr Clear Runoff Volume (cu-ft)	38909.2179



Peak Flow Hydrologic Analysis

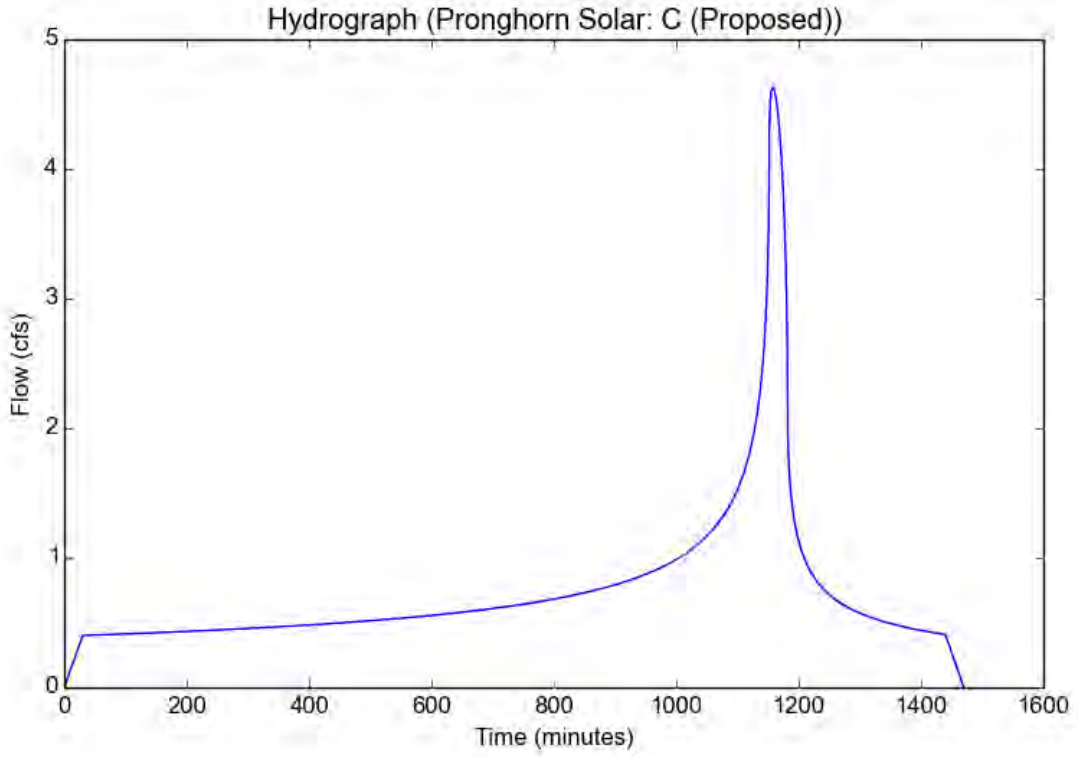
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Version: HydroCalc 1.0.3

Input Parameters

Project Name	Pronghorn Solar
Subarea ID	C (Proposed)
Area (ac)	38.49
Flow Path Length (ft)	970.0
Flow Path Slope (vft/hft)	0.005
50-yr Rainfall Depth (in)	2.6
Percent Impervious	0.1
Soil Type	134
Design Storm Frequency	50-yr
Fire Factor	0.34
LID	False

Output Results

Modeled (50-yr) Rainfall Depth (in)	2.6
Peak Intensity (in/hr)	0.6683
Undeveloped Runoff Coefficient (Cu)	0.1
Developed Runoff Coefficient (Cd)	0.18
Time of Concentration (min)	30.0
Clear Peak Flow Rate (cfs)	4.6298
Burned Peak Flow Rate (cfs)	6.7423
24-Hr Clear Runoff Volume (ac-ft)	1.4887
24-Hr Clear Runoff Volume (cu-ft)	64848.6965



Peak Flow Hydrologic Analysis

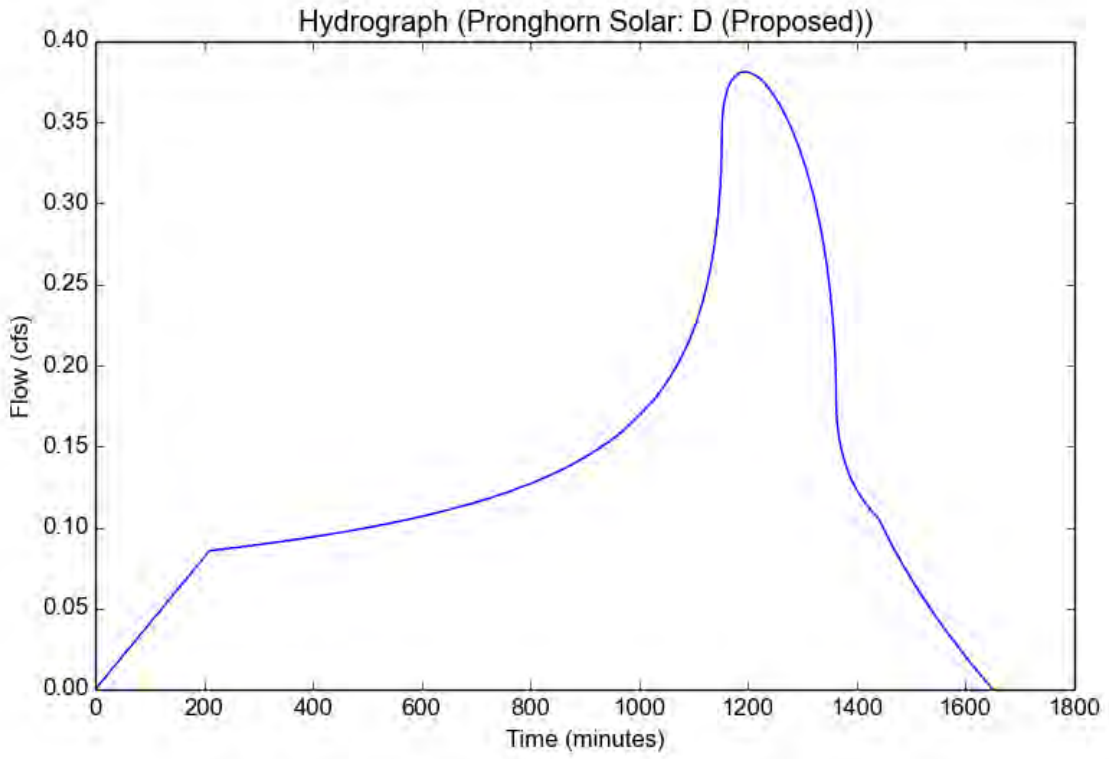
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Version: HydroCalc 1.0.3

Input Parameters

Project Name	Pronghorn Solar
Subarea ID	D (Proposed)
Area (ac)	27.42
Flow Path Length (ft)	1665.0
Flow Path Slope (vft/hft)	0.005
0.75-inch Rainfall Depth (in)	0.75
Percent Impervious	0.1
Soil Type	134
Design Storm Frequency	0.75 inch storm
Fire Factor	0.34
LID	True

Output Results

Modeled (0.75 inch storm) Rainfall Depth (in)	0.75
Peak Intensity (in/hr)	0.0772
Undeveloped Runoff Coefficient (Cu)	0.1
Developed Runoff Coefficient (Cd)	0.18
Time of Concentration (min)	210.0
Clear Peak Flow Rate (cfs)	0.3812
Burned Peak Flow Rate (cfs)	0.4526
24-Hr Clear Runoff Volume (ac-ft)	0.3061
24-Hr Clear Runoff Volume (cu-ft)	13334.6142



Peak Flow Hydrologic Analysis

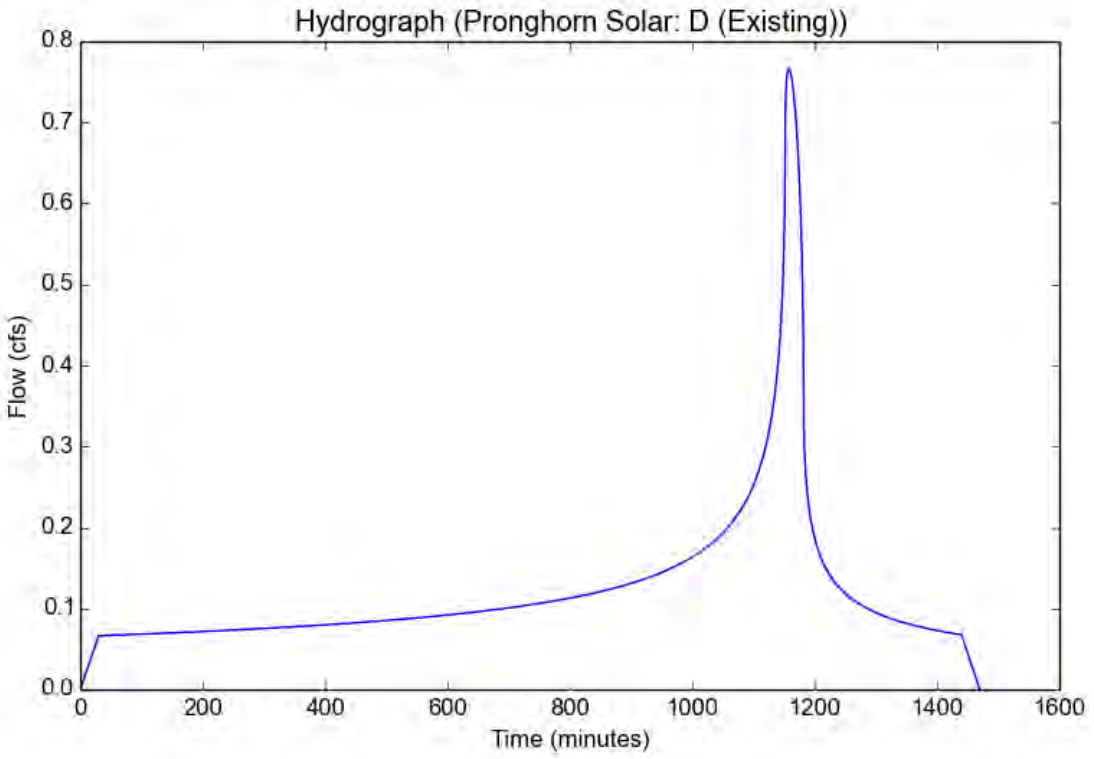
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Version: HydroCalc 1.0.3

Input Parameters

Project Name	Pronghorn Solar
Subarea ID	D (Existing)
Area (ac)	27.42
Flow Path Length (ft)	1665.0
Flow Path Slope (vft/hft)	0.005
50-yr Rainfall Depth (in)	2.6
Percent Impervious	0.01
Soil Type	134
Design Storm Frequency	2-yr
Fire Factor	0.34
LID	False

Output Results

Modeled (2-yr) Rainfall Depth (in)	1.0062
Peak Intensity (in/hr)	0.2586
Undeveloped Runoff Coefficient (Cu)	0.1
Developed Runoff Coefficient (Cd)	0.108
Time of Concentration (min)	30.0
Clear Peak Flow Rate (cfs)	0.7659
Burned Peak Flow Rate (cfs)	1.2452
24-Hr Clear Runoff Volume (ac-ft)	0.2463
24-Hr Clear Runoff Volume (cu-ft)	10727.1167



Peak Flow Hydrologic Analysis

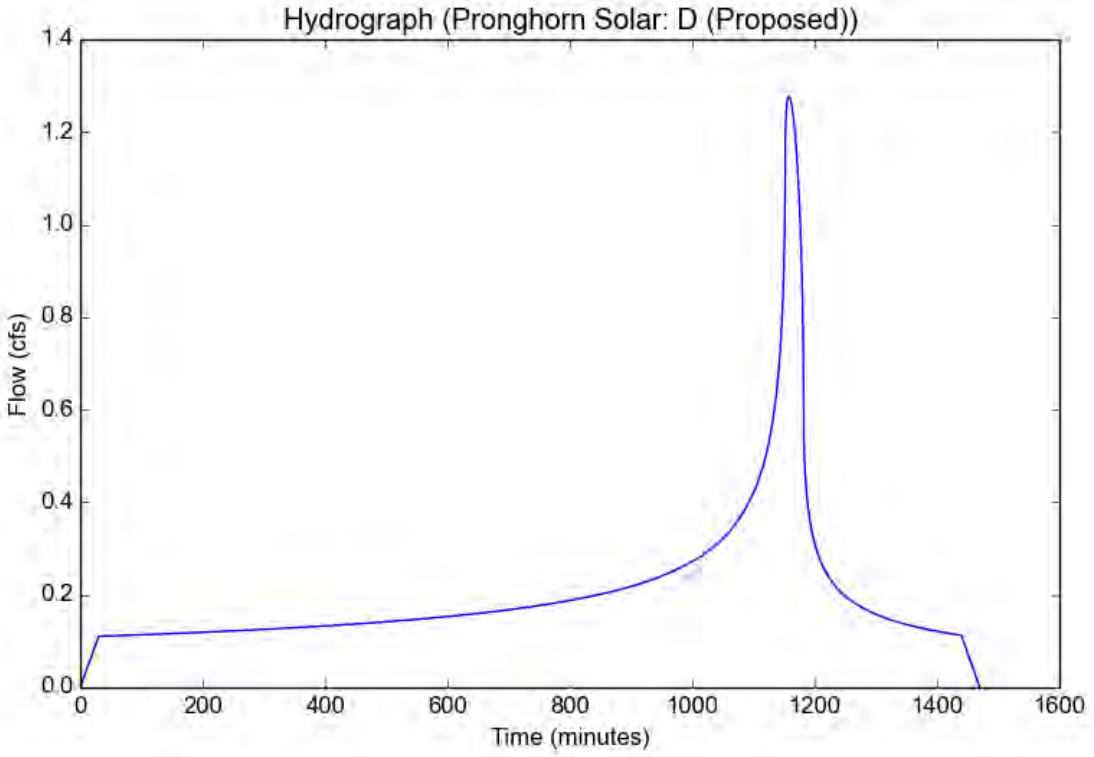
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Version: HydroCalc 1.0.3

Input Parameters

Project Name	Pronghorn Solar
Subarea ID	D (Proposed)
Area (ac)	27.42
Flow Path Length (ft)	1665.0
Flow Path Slope (vft/hft)	0.005
50-yr Rainfall Depth (in)	2.6
Percent Impervious	0.1
Soil Type	134
Design Storm Frequency	2-yr
Fire Factor	0.34
LID	False

Output Results

Modeled (2-yr) Rainfall Depth (in)	1.0062
Peak Intensity (in/hr)	0.2586
Undeveloped Runoff Coefficient (Cu)	0.1
Developed Runoff Coefficient (Cd)	0.18
Time of Concentration (min)	30.0
Clear Peak Flow Rate (cfs)	1.2764
Burned Peak Flow Rate (cfs)	1.717
24-Hr Clear Runoff Volume (ac-ft)	0.4104
24-Hr Clear Runoff Volume (cu-ft)	17878.5279



Peak Flow Hydrologic Analysis

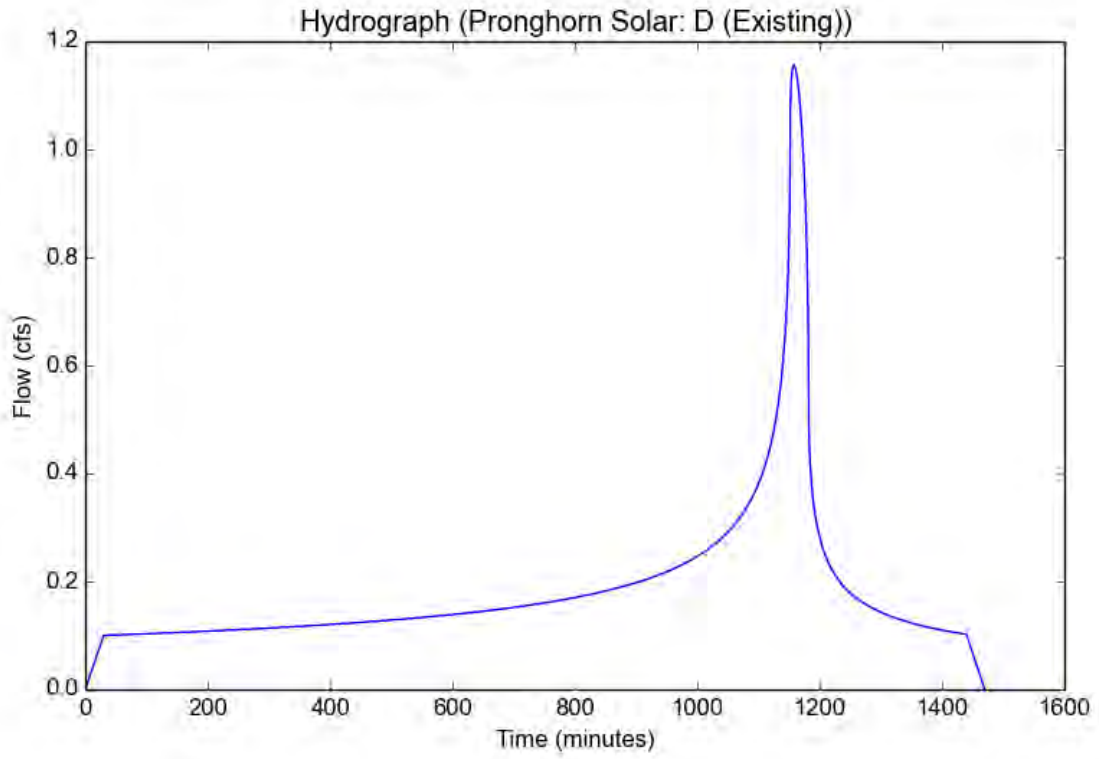
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Version: HydroCalc 1.0.3

Input Parameters

Project Name	Pronghorn Solar
Subarea ID	D (Existing)
Area (ac)	27.42
Flow Path Length (ft)	1665.0
Flow Path Slope (vft/hft)	0.005
50-yr Rainfall Depth (in)	2.6
Percent Impervious	0.01
Soil Type	134
Design Storm Frequency	5-yr
Fire Factor	0.34
LID	False

Output Results

Modeled (5-yr) Rainfall Depth (in)	1.5184
Peak Intensity (in/hr)	0.3903
Undeveloped Runoff Coefficient (Cu)	0.1
Developed Runoff Coefficient (Cd)	0.108
Time of Concentration (min)	30.0
Clear Peak Flow Rate (cfs)	1.1557
Burned Peak Flow Rate (cfs)	1.9827
24-Hr Clear Runoff Volume (ac-ft)	0.3716
24-Hr Clear Runoff Volume (cu-ft)	16187.6903



Peak Flow Hydrologic Analysis

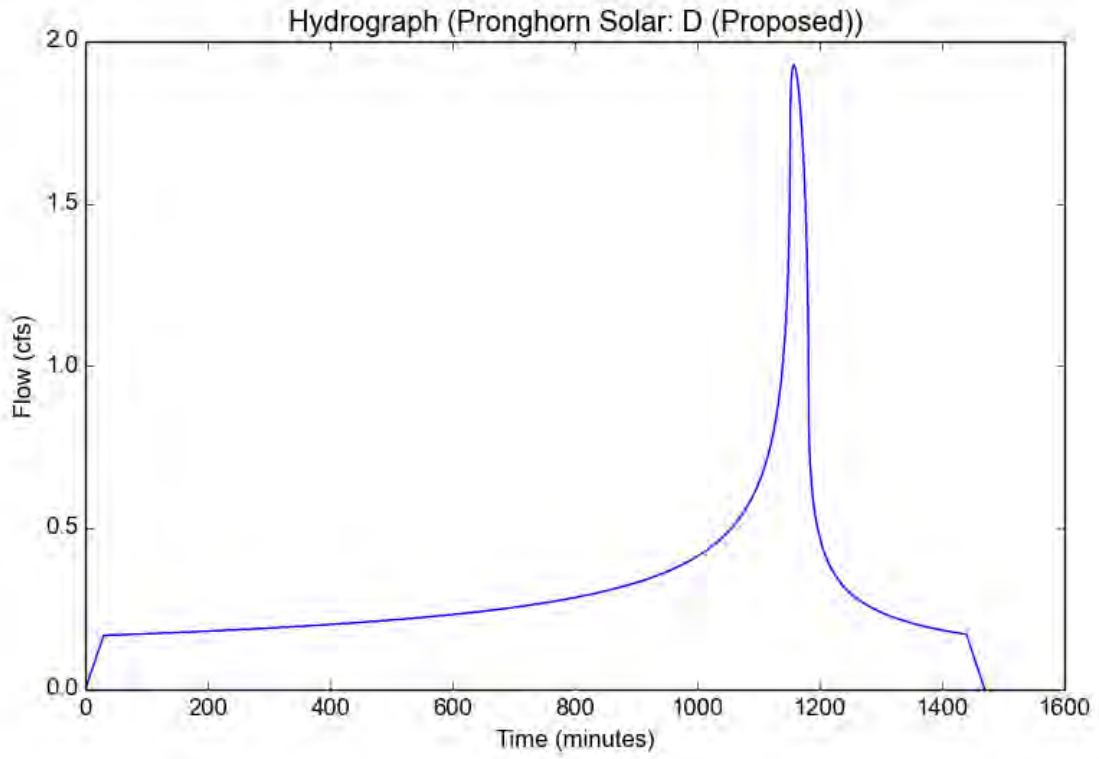
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Version: HydroCalc 1.0.3

Input Parameters

Project Name	Pronghorn Solar
Subarea ID	D (Proposed)
Area (ac)	27.42
Flow Path Length (ft)	1665.0
Flow Path Slope (vft/hft)	0.005
50-yr Rainfall Depth (in)	2.6
Percent Impervious	0.1
Soil Type	134
Design Storm Frequency	5-yr
Fire Factor	0.34
LID	False

Output Results

Modeled (5-yr) Rainfall Depth (in)	1.5184
Peak Intensity (in/hr)	0.3903
Undeveloped Runoff Coefficient (Cu)	0.1
Developed Runoff Coefficient (Cd)	0.18
Time of Concentration (min)	30.0
Clear Peak Flow Rate (cfs)	1.9262
Burned Peak Flow Rate (cfs)	2.6864
24-Hr Clear Runoff Volume (ac-ft)	0.6194
24-Hr Clear Runoff Volume (cu-ft)	26979.4839



Peak Flow Hydrologic Analysis

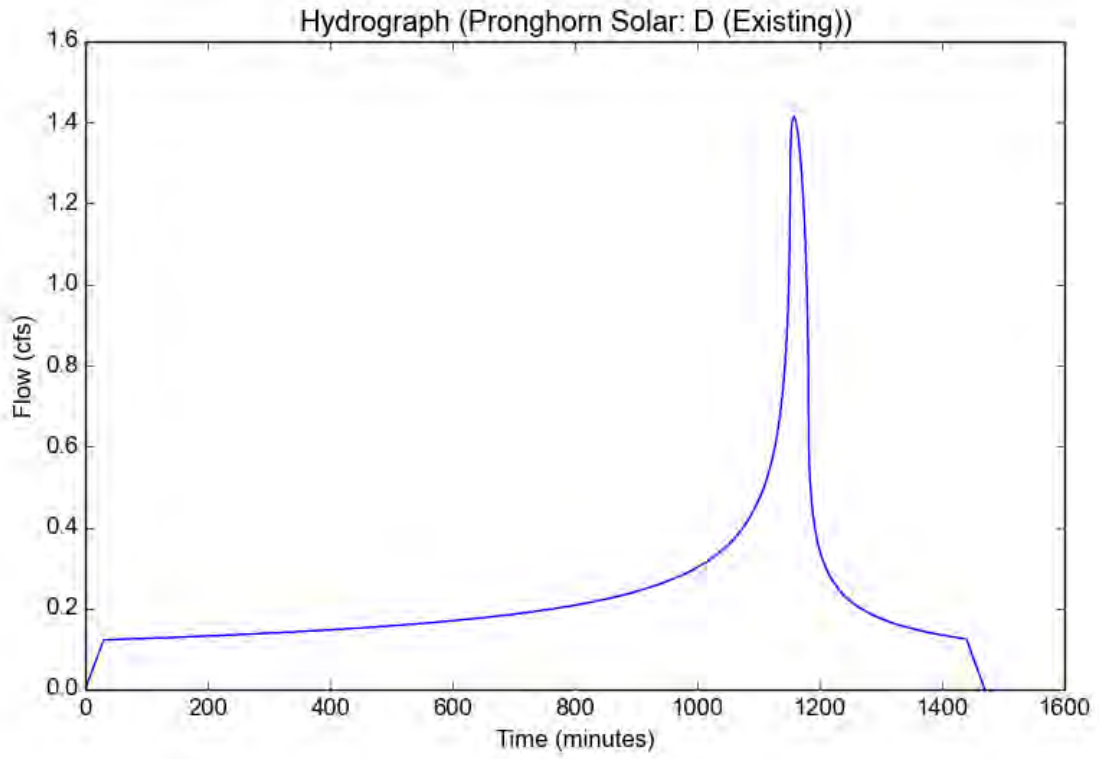
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Version: HydroCalc 1.0.3

Input Parameters

Project Name	Pronghorn Solar
Subarea ID	D (Existing)
Area (ac)	27.42
Flow Path Length (ft)	1665.0
Flow Path Slope (vft/hft)	0.005
50-yr Rainfall Depth (in)	2.6
Percent Impervious	0.01
Soil Type	134
Design Storm Frequency	10-yr
Fire Factor	0.34
LID	False

Output Results

Modeled (10-yr) Rainfall Depth (in)	1.8564
Peak Intensity (in/hr)	0.4771
Undeveloped Runoff Coefficient (Cu)	0.1
Developed Runoff Coefficient (Cd)	0.108
Time of Concentration (min)	30.0
Clear Peak Flow Rate (cfs)	1.413
Burned Peak Flow Rate (cfs)	2.484
24-Hr Clear Runoff Volume (ac-ft)	0.4543
24-Hr Clear Runoff Volume (cu-ft)	19791.1146



Peak Flow Hydrologic Analysis

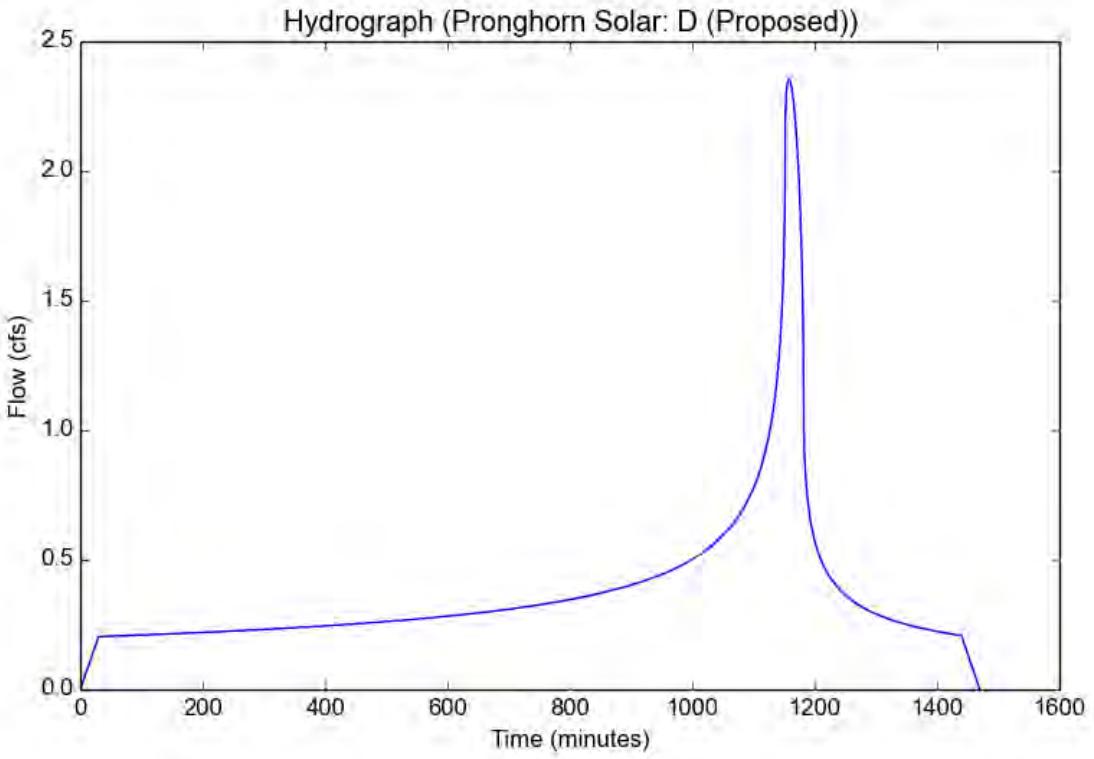
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Version: HydroCalc 1.0.3

Input Parameters

Project Name	Pronghorn Solar
Subarea ID	D (Proposed)
Area (ac)	27.42
Flow Path Length (ft)	1665.0
Flow Path Slope (vft/hft)	0.005
50-yr Rainfall Depth (in)	2.6
Percent Impervious	0.1
Soil Type	134
Design Storm Frequency	10-yr
Fire Factor	0.34
LID	False

Output Results

Modeled (10-yr) Rainfall Depth (in)	1.8564
Peak Intensity (in/hr)	0.4771
Undeveloped Runoff Coefficient (Cu)	0.1
Developed Runoff Coefficient (Cd)	0.18
Time of Concentration (min)	30.0
Clear Peak Flow Rate (cfs)	2.355
Burned Peak Flow Rate (cfs)	3.3395
24-Hr Clear Runoff Volume (ac-ft)	0.7572
24-Hr Clear Runoff Volume (cu-ft)	32985.1909



Peak Flow Hydrologic Analysis

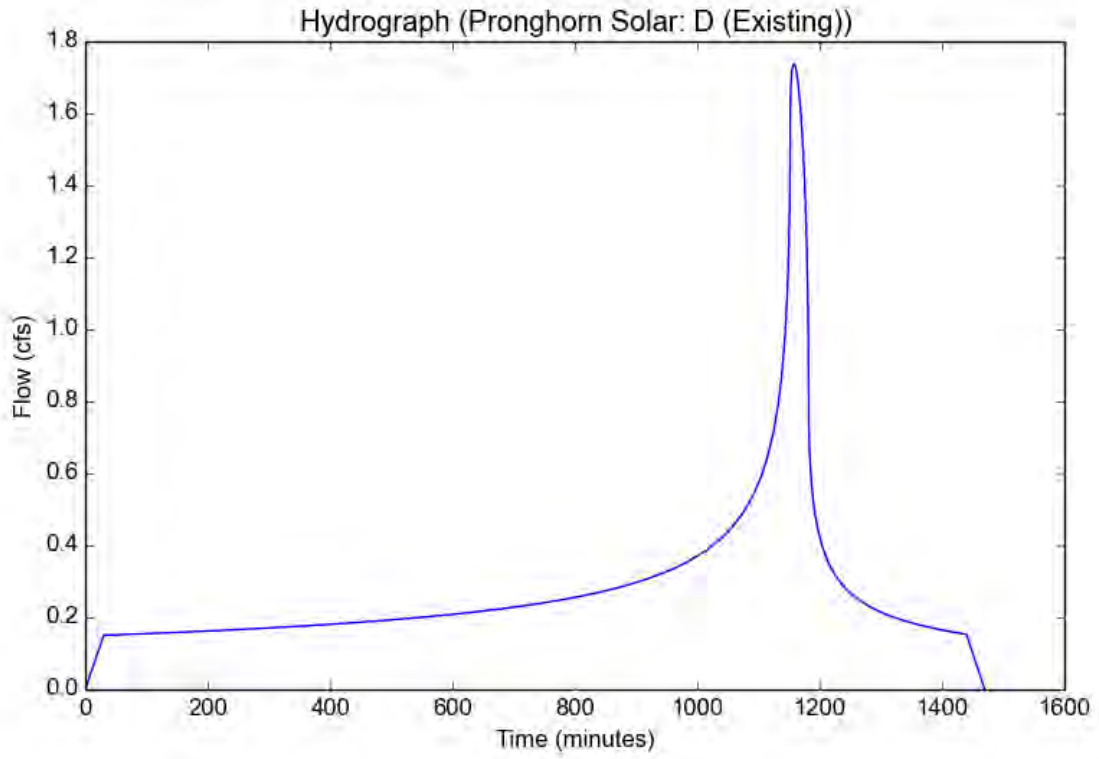
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Version: HydroCalc 1.0.3

Input Parameters

Project Name	Pronghorn Solar
Subarea ID	D (Existing)
Area (ac)	27.42
Flow Path Length (ft)	1665.0
Flow Path Slope (vft/hft)	0.005
50-yr Rainfall Depth (in)	2.6
Percent Impervious	0.01
Soil Type	134
Design Storm Frequency	25-yr
Fire Factor	0.34
LID	False

Output Results

Modeled (25-yr) Rainfall Depth (in)	2.2828
Peak Intensity (in/hr)	0.5867
Undeveloped Runoff Coefficient (Cu)	0.1
Developed Runoff Coefficient (Cd)	0.108
Time of Concentration (min)	30.0
Clear Peak Flow Rate (cfs)	1.7375
Burned Peak Flow Rate (cfs)	3.1289
24-Hr Clear Runoff Volume (ac-ft)	0.5587
24-Hr Clear Runoff Volume (cu-ft)	24336.9728



Peak Flow Hydrologic Analysis

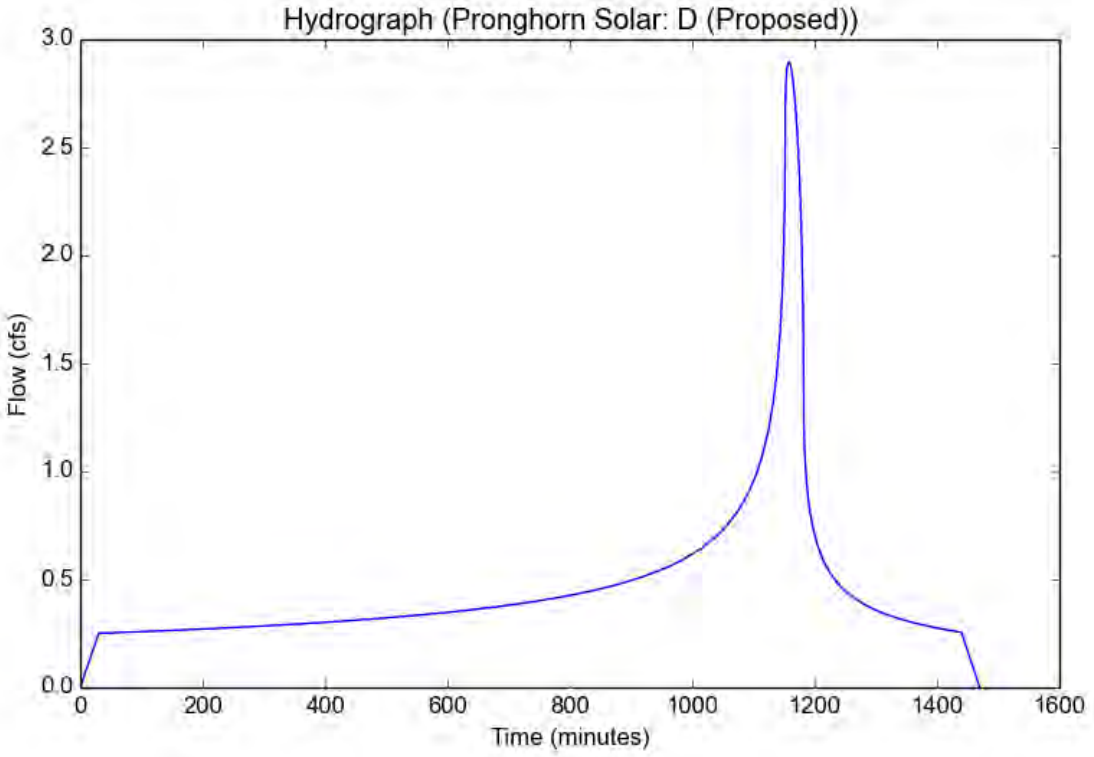
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Version: HydroCalc 1.0.3

Input Parameters

Project Name	Pronghorn Solar
Subarea ID	D (Proposed)
Area (ac)	27.42
Flow Path Length (ft)	1665.0
Flow Path Slope (vft/hft)	0.005
50-yr Rainfall Depth (in)	2.6
Percent Impervious	0.1
Soil Type	134
Design Storm Frequency	25-yr
Fire Factor	0.34
LID	False

Output Results

Modeled (25-yr) Rainfall Depth (in)	2.2828
Peak Intensity (in/hr)	0.5867
Undeveloped Runoff Coefficient (Cu)	0.1
Developed Runoff Coefficient (Cd)	0.18
Time of Concentration (min)	30.0
Clear Peak Flow Rate (cfs)	2.8959
Burned Peak Flow Rate (cfs)	4.1749
24-Hr Clear Runoff Volume (ac-ft)	0.9312
24-Hr Clear Runoff Volume (cu-ft)	40561.6213



Peak Flow Hydrologic Analysis

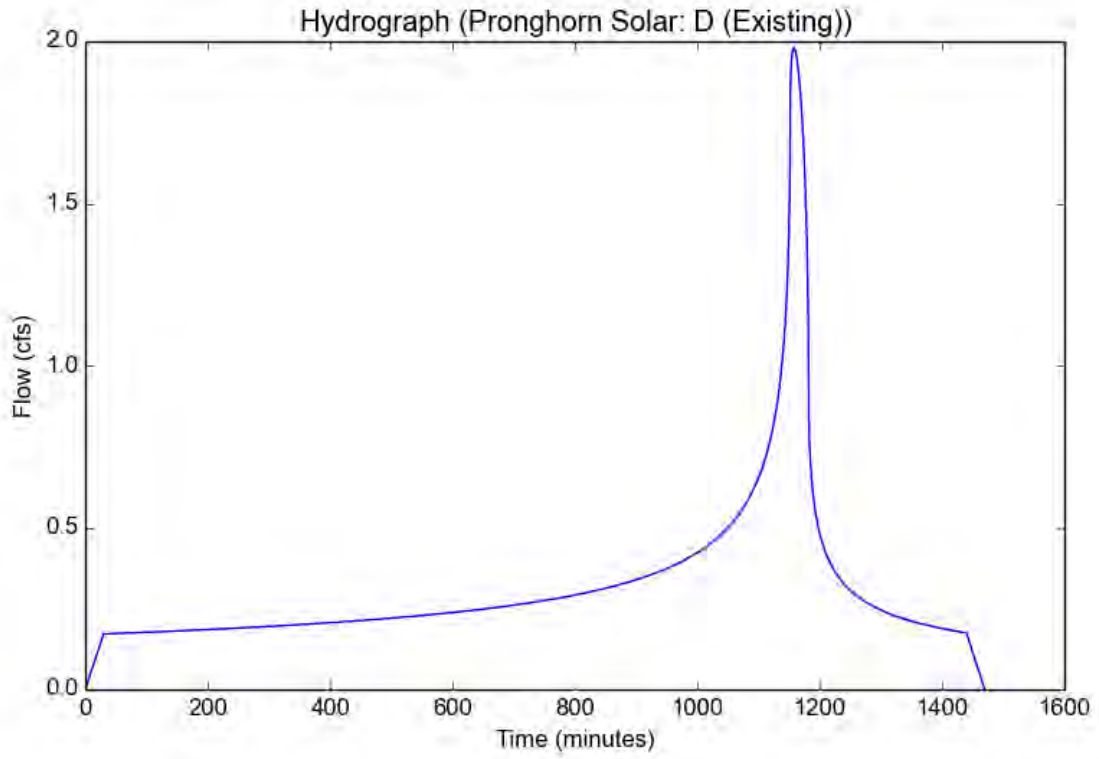
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Version: HydroCalc 1.0.3

Input Parameters

Project Name	Pronghorn Solar
Subarea ID	D (Existing)
Area (ac)	27.42
Flow Path Length (ft)	1665.0
Flow Path Slope (vft/hft)	0.005
50-yr Rainfall Depth (in)	2.6
Percent Impervious	0.01
Soil Type	134
Design Storm Frequency	50-yr
Fire Factor	0.34
LID	False

Output Results

Modeled (50-yr) Rainfall Depth (in)	2.6
Peak Intensity (in/hr)	0.6683
Undeveloped Runoff Coefficient (Cu)	0.1
Developed Runoff Coefficient (Cd)	0.108
Time of Concentration (min)	30.0
Clear Peak Flow Rate (cfs)	1.979
Burned Peak Flow Rate (cfs)	3.616
24-Hr Clear Runoff Volume (ac-ft)	0.6363
24-Hr Clear Runoff Volume (cu-ft)	27718.6478



Peak Flow Hydrologic Analysis

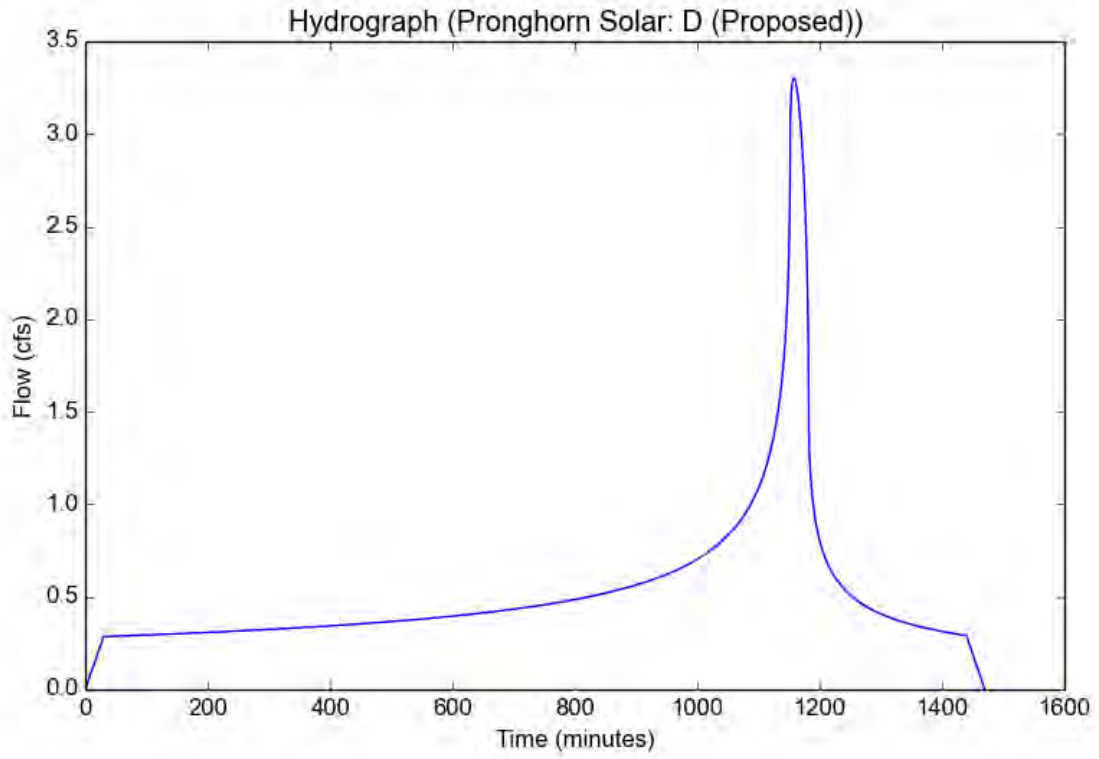
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Version: HydroCalc 1.0.3

Input Parameters

Project Name	Pronghorn Solar
Subarea ID	D (Proposed)
Area (ac)	27.42
Flow Path Length (ft)	1665.0
Flow Path Slope (vft/hft)	0.005
50-yr Rainfall Depth (in)	2.6
Percent Impervious	0.1
Soil Type	134
Design Storm Frequency	50-yr
Fire Factor	0.34
LID	False

Output Results

Modeled (50-yr) Rainfall Depth (in)	2.6
Peak Intensity (in/hr)	0.6683
Undeveloped Runoff Coefficient (Cu)	0.1
Developed Runoff Coefficient (Cd)	0.18
Time of Concentration (min)	30.0
Clear Peak Flow Rate (cfs)	3.2983
Burned Peak Flow Rate (cfs)	4.8032
24-Hr Clear Runoff Volume (ac-ft)	1.0606
24-Hr Clear Runoff Volume (cu-ft)	46197.7464



Peak Flow Hydrologic Analysis

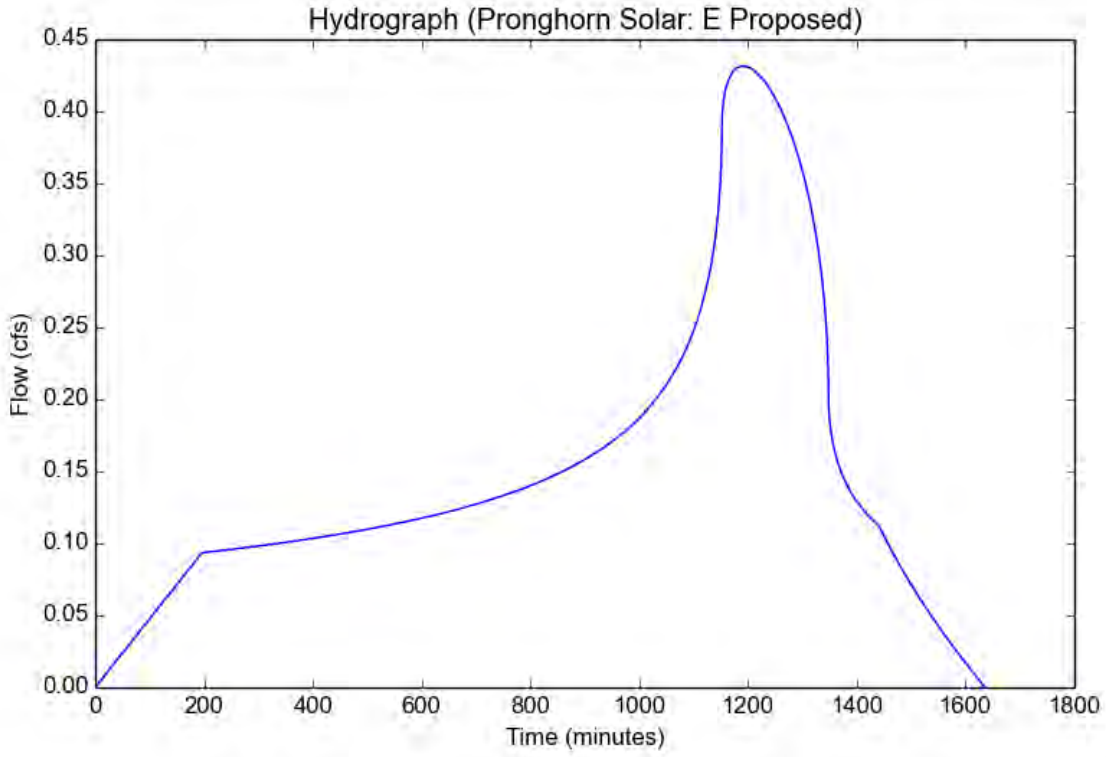
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Version: HydroCalc 1.0.3

Input Parameters

Project Name	Pronghorn Solar
Subarea ID	E Proposed
Area (ac)	30.04
Flow Path Length (ft)	1500.0
Flow Path Slope (vft/hft)	0.005
0.75-inch Rainfall Depth (in)	0.75
Percent Impervious	0.1
Soil Type	134
Design Storm Frequency	0.75 inch storm
Fire Factor	0.34
LID	True

Output Results

Modeled (0.75 inch storm) Rainfall Depth (in)	0.75
Peak Intensity (in/hr)	0.0798
Undeveloped Runoff Coefficient (Cu)	0.1
Developed Runoff Coefficient (Cd)	0.18
Time of Concentration (min)	196.0
Clear Peak Flow Rate (cfs)	0.4314
Burned Peak Flow Rate (cfs)	0.5142
24-Hr Clear Runoff Volume (ac-ft)	0.3353
24-Hr Clear Runoff Volume (cu-ft)	14607.4633



Peak Flow Hydrologic Analysis

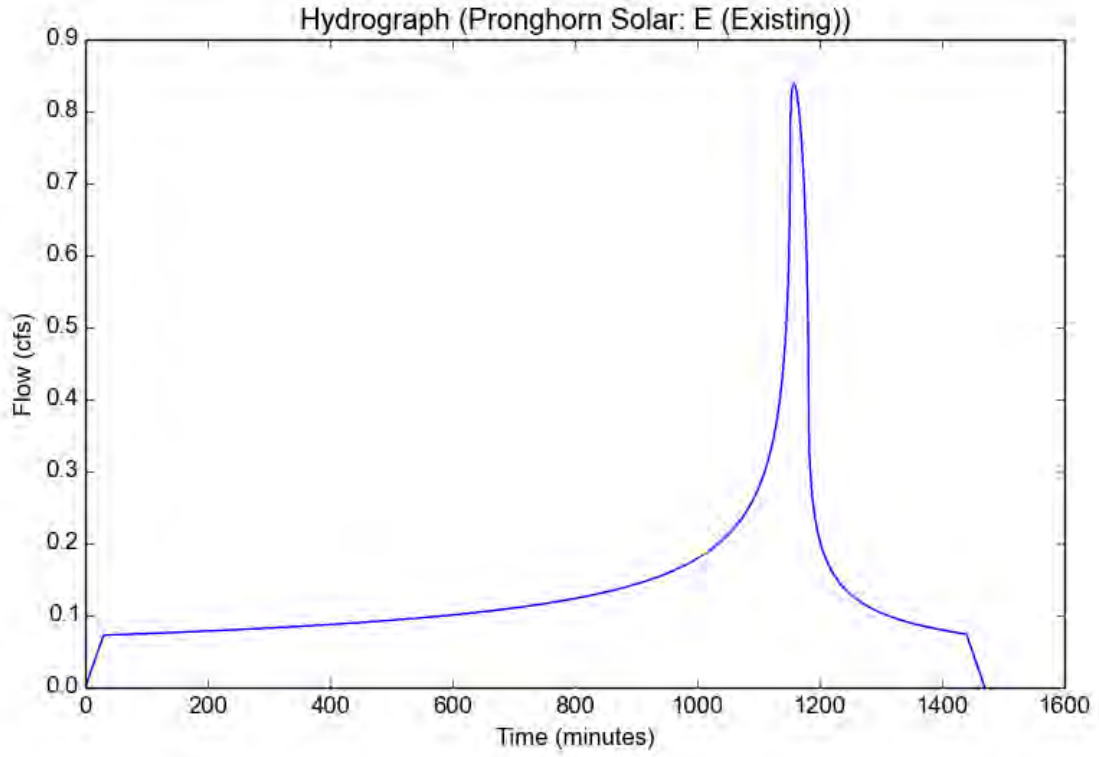
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Version: HydroCalc 1.0.3

Input Parameters

Project Name	Pronghorn Solar
Subarea ID	E (Existing)
Area (ac)	30.04
Flow Path Length (ft)	1500.0
Flow Path Slope (vft/hft)	0.005
50-yr Rainfall Depth (in)	2.6
Percent Impervious	0.01
Soil Type	134
Design Storm Frequency	2-yr
Fire Factor	0.34
LID	False

Output Results

Modeled (2-yr) Rainfall Depth (in)	1.0062
Peak Intensity (in/hr)	0.2586
Undeveloped Runoff Coefficient (Cu)	0.1
Developed Runoff Coefficient (Cd)	0.108
Time of Concentration (min)	30.0
Clear Peak Flow Rate (cfs)	0.839
Burned Peak Flow Rate (cfs)	1.3641
24-Hr Clear Runoff Volume (ac-ft)	0.2698
24-Hr Clear Runoff Volume (cu-ft)	11752.1002



Peak Flow Hydrologic Analysis

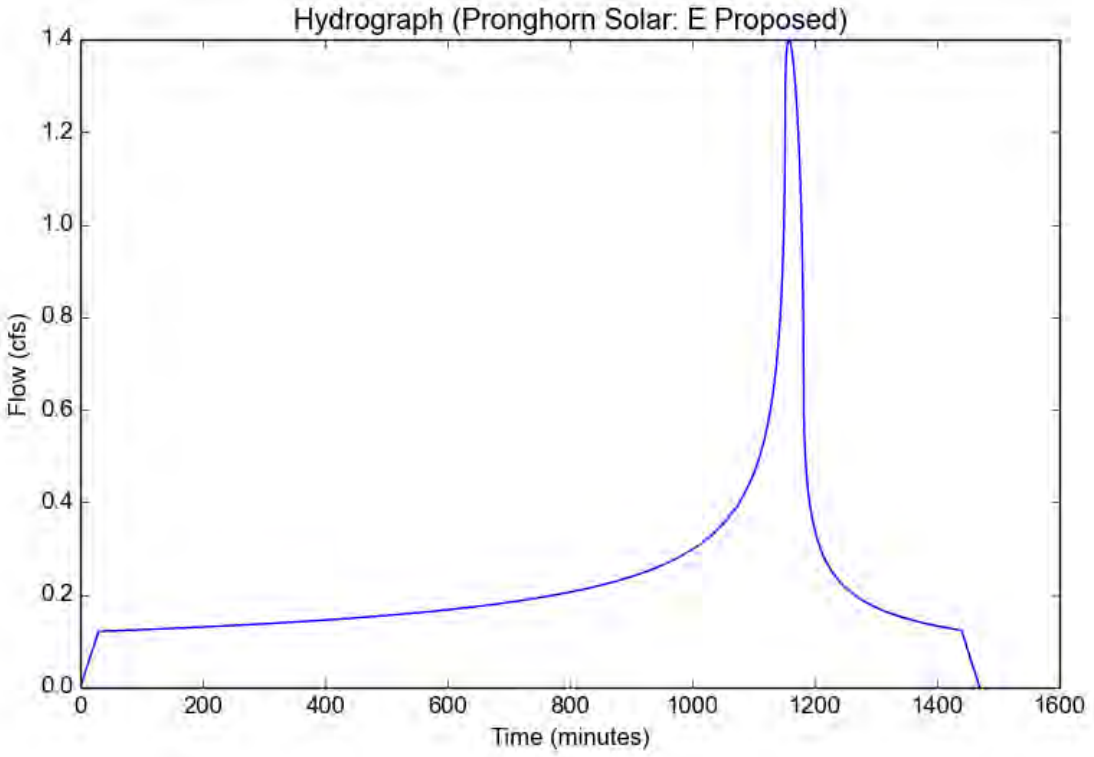
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Version: HydroCalc 1.0.3

Input Parameters

Project Name	Pronghorn Solar
Subarea ID	E Proposed
Area (ac)	30.04
Flow Path Length (ft)	1500.0
Flow Path Slope (vft/hft)	0.005
50-yr Rainfall Depth (in)	2.6
Percent Impervious	0.1
Soil Type	134
Design Storm Frequency	2-yr
Fire Factor	0.34
LID	False

Output Results

Modeled (2-yr) Rainfall Depth (in)	1.0062
Peak Intensity (in/hr)	0.2586
Undeveloped Runoff Coefficient (Cu)	0.1
Developed Runoff Coefficient (Cd)	0.18
Time of Concentration (min)	30.0
Clear Peak Flow Rate (cfs)	1.3984
Burned Peak Flow Rate (cfs)	1.8811
24-Hr Clear Runoff Volume (ac-ft)	0.4497
24-Hr Clear Runoff Volume (cu-ft)	19586.8336



Peak Flow Hydrologic Analysis

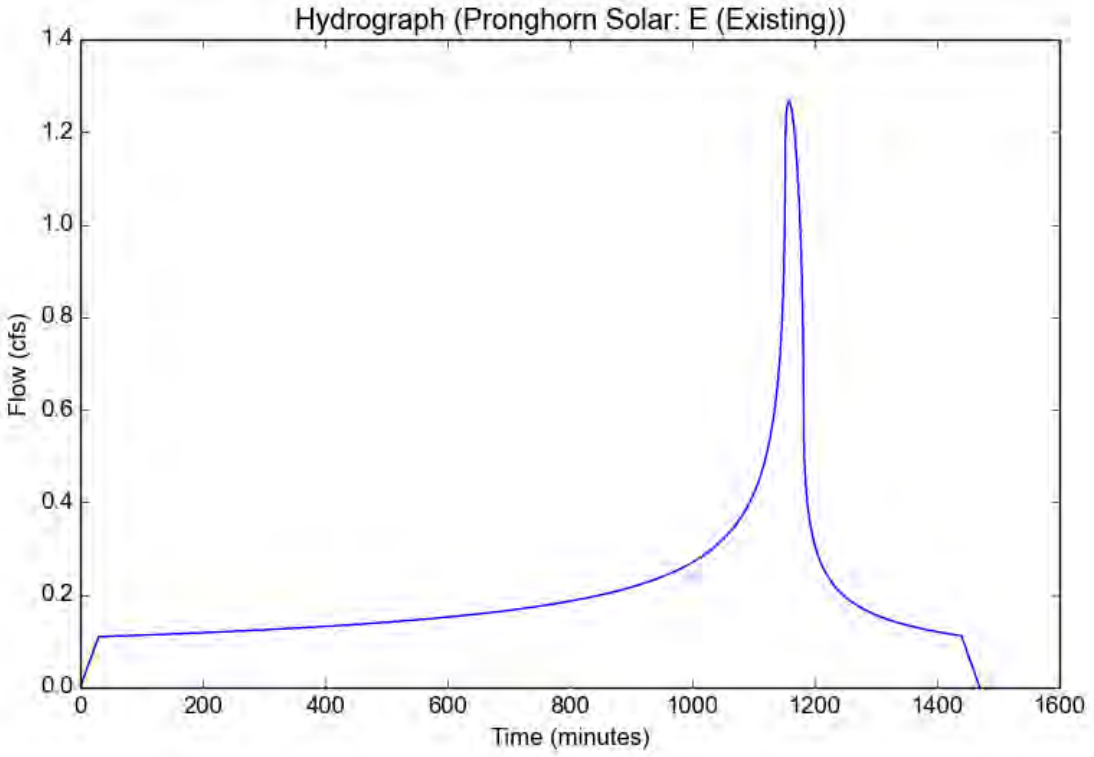
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Version: HydroCalc 1.0.3

Input Parameters

Project Name	Pronghorn Solar
Subarea ID	E (Existing)
Area (ac)	30.04
Flow Path Length (ft)	1500.0
Flow Path Slope (vft/hft)	0.005
50-yr Rainfall Depth (in)	2.6
Percent Impervious	0.01
Soil Type	134
Design Storm Frequency	5-yr
Fire Factor	0.34
LID	False

Output Results

Modeled (5-yr) Rainfall Depth (in)	1.5184
Peak Intensity (in/hr)	0.3903
Undeveloped Runoff Coefficient (Cu)	0.1
Developed Runoff Coefficient (Cd)	0.108
Time of Concentration (min)	30.0
Clear Peak Flow Rate (cfs)	1.2661
Burned Peak Flow Rate (cfs)	2.1721
24-Hr Clear Runoff Volume (ac-ft)	0.4071
24-Hr Clear Runoff Volume (cu-ft)	17734.4354



Peak Flow Hydrologic Analysis

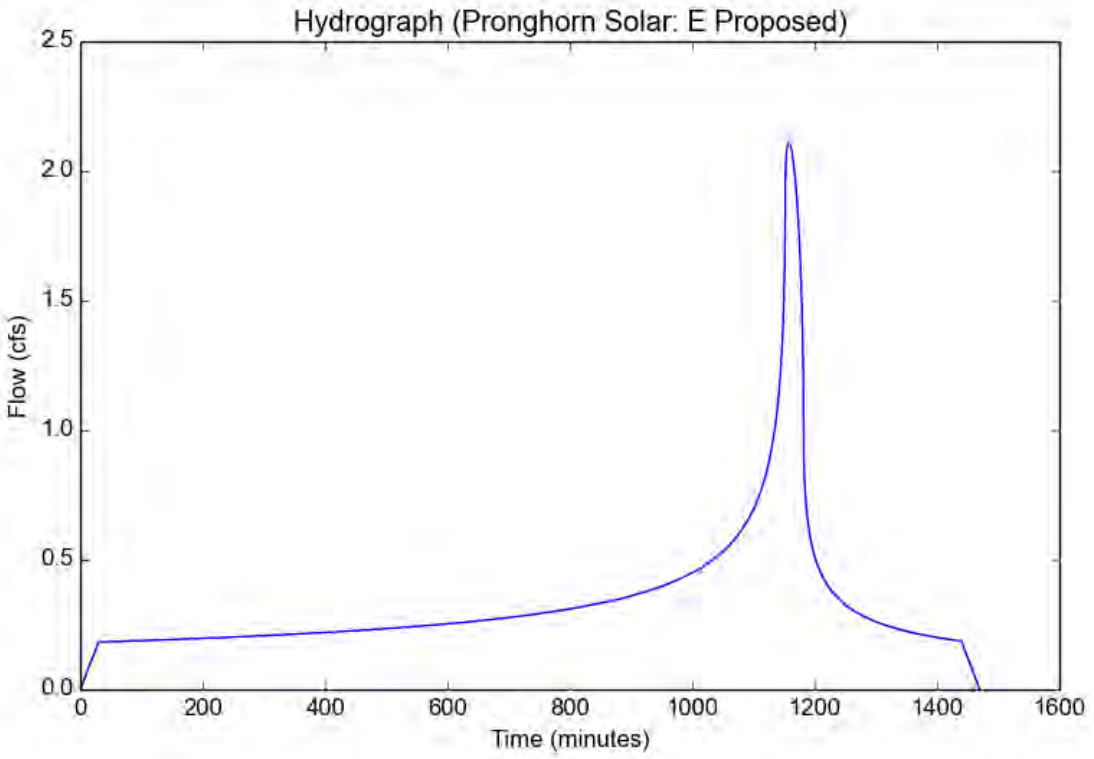
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Version: HydroCalc 1.0.3

Input Parameters

Project Name	Pronghorn Solar
Subarea ID	E Proposed
Area (ac)	30.04
Flow Path Length (ft)	1500.0
Flow Path Slope (vft/hft)	0.005
50-yr Rainfall Depth (in)	2.6
Percent Impervious	0.1
Soil Type	134
Design Storm Frequency	5-yr
Fire Factor	0.34
LID	False

Output Results

Modeled (5-yr) Rainfall Depth (in)	1.5184
Peak Intensity (in/hr)	0.3903
Undeveloped Runoff Coefficient (Cu)	0.1
Developed Runoff Coefficient (Cd)	0.18
Time of Concentration (min)	30.0
Clear Peak Flow Rate (cfs)	2.1102
Burned Peak Flow Rate (cfs)	2.9431
24-Hr Clear Runoff Volume (ac-ft)	0.6785
24-Hr Clear Runoff Volume (cu-ft)	29557.3923



Peak Flow Hydrologic Analysis

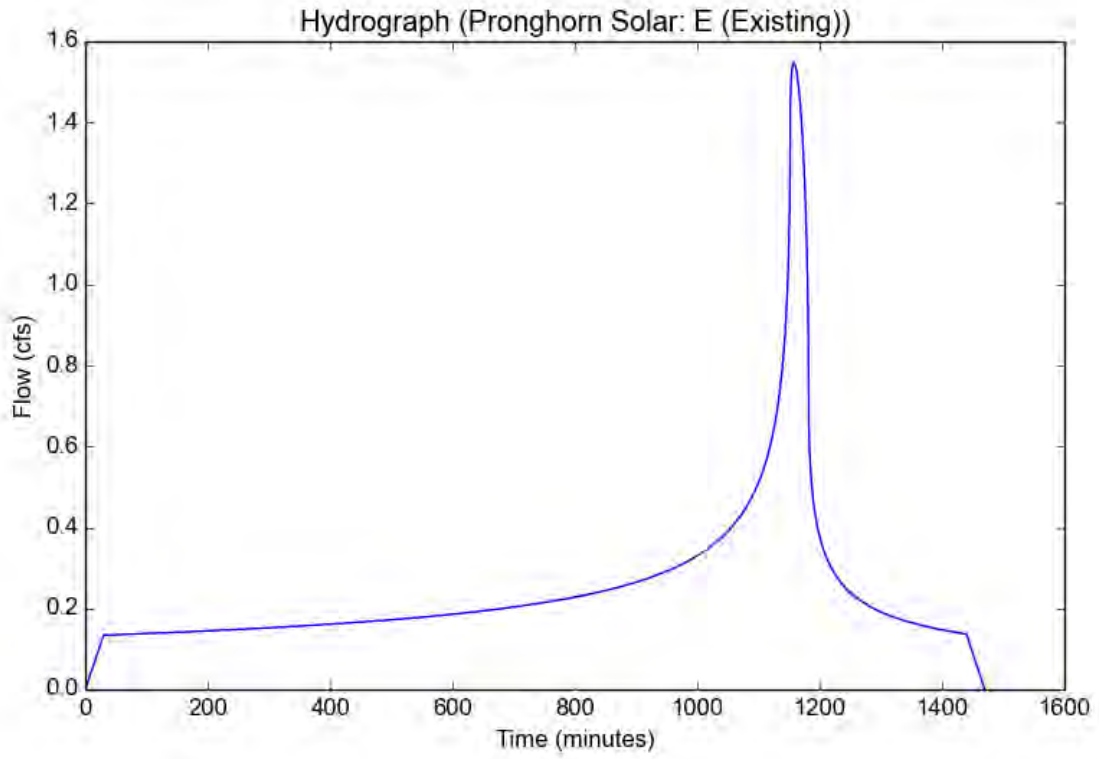
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Version: HydroCalc 1.0.3

Input Parameters

Project Name	Pronghorn Solar
Subarea ID	E (Existing)
Area (ac)	30.04
Flow Path Length (ft)	1500.0
Flow Path Slope (vft/hft)	0.005
50-yr Rainfall Depth (in)	2.6
Percent Impervious	0.01
Soil Type	134
Design Storm Frequency	10-yr
Fire Factor	0.34
LID	False

Output Results

Modeled (10-yr) Rainfall Depth (in)	1.8564
Peak Intensity (in/hr)	0.4771
Undeveloped Runoff Coefficient (Cu)	0.1
Developed Runoff Coefficient (Cd)	0.108
Time of Concentration (min)	30.0
Clear Peak Flow Rate (cfs)	1.548
Burned Peak Flow Rate (cfs)	2.7213
24-Hr Clear Runoff Volume (ac-ft)	0.4978
24-Hr Clear Runoff Volume (cu-ft)	21682.1693



Peak Flow Hydrologic Analysis

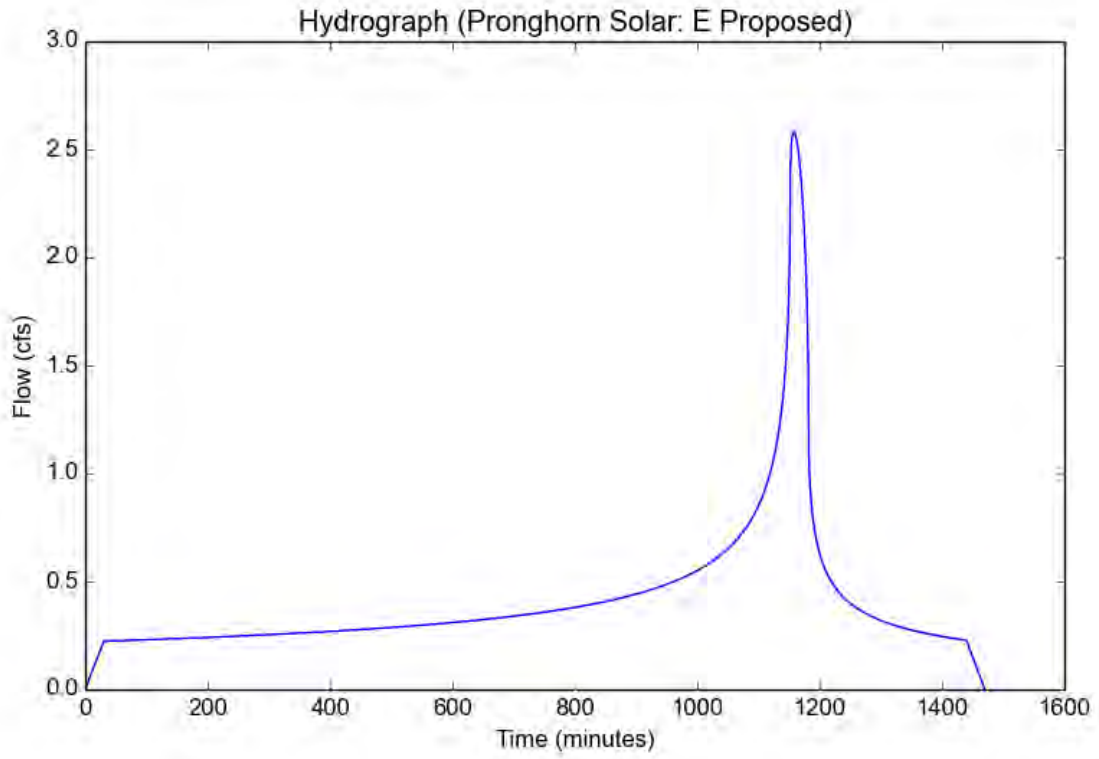
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Version: HydroCalc 1.0.3

Input Parameters

Project Name	Pronghorn Solar
Subarea ID	E Proposed
Area (ac)	30.04
Flow Path Length (ft)	1500.0
Flow Path Slope (vft/hft)	0.005
50-yr Rainfall Depth (in)	2.6
Percent Impervious	0.1
Soil Type	134
Design Storm Frequency	10-yr
Fire Factor	0.34
LID	False

Output Results

Modeled (10-yr) Rainfall Depth (in)	1.8564
Peak Intensity (in/hr)	0.4771
Undeveloped Runoff Coefficient (Cu)	0.1
Developed Runoff Coefficient (Cd)	0.18
Time of Concentration (min)	30.0
Clear Peak Flow Rate (cfs)	2.58
Burned Peak Flow Rate (cfs)	3.6586
24-Hr Clear Runoff Volume (ac-ft)	0.8296
24-Hr Clear Runoff Volume (cu-ft)	36136.9488



Peak Flow Hydrologic Analysis

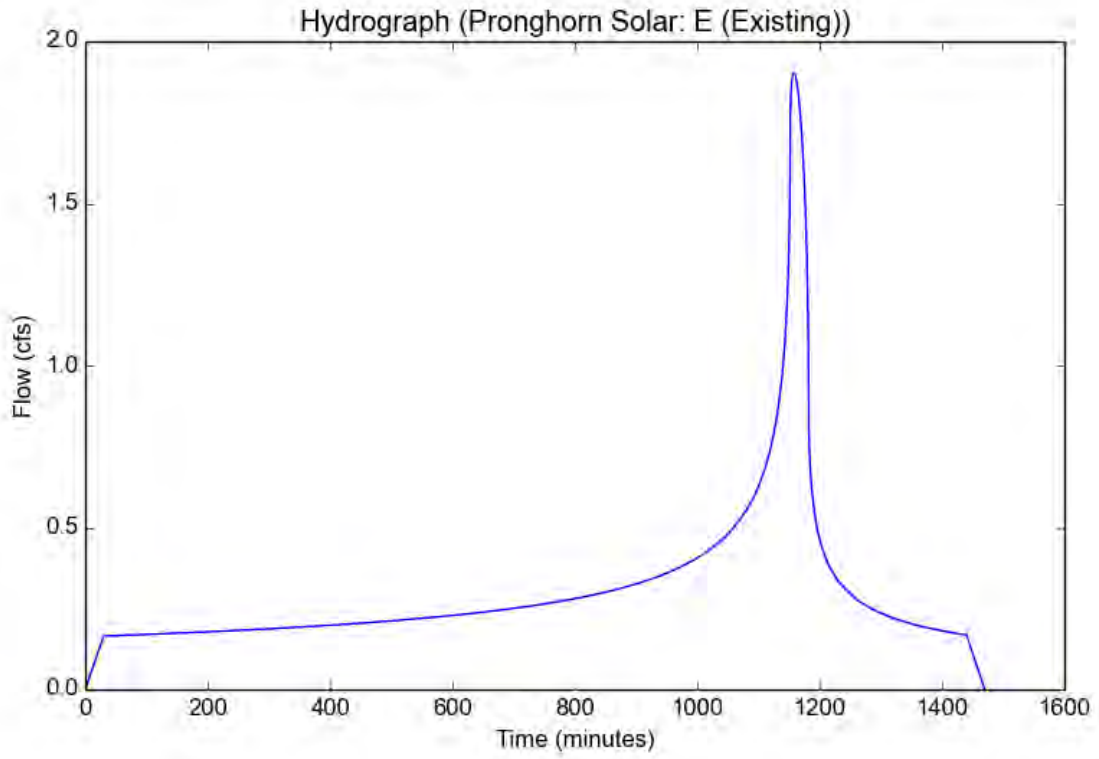
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Version: HydroCalc 1.0.3

Input Parameters

Project Name	Pronghorn Solar
Subarea ID	E (Existing)
Area (ac)	30.04
Flow Path Length (ft)	1500.0
Flow Path Slope (vft/hft)	0.005
50-yr Rainfall Depth (in)	2.6
Percent Impervious	0.01
Soil Type	134
Design Storm Frequency	25-yr
Fire Factor	0.34
LID	False

Output Results

Modeled (25-yr) Rainfall Depth (in)	2.2828
Peak Intensity (in/hr)	0.5867
Undeveloped Runoff Coefficient (Cu)	0.1
Developed Runoff Coefficient (Cd)	0.108
Time of Concentration (min)	30.0
Clear Peak Flow Rate (cfs)	1.9035
Burned Peak Flow Rate (cfs)	3.4279
24-Hr Clear Runoff Volume (ac-ft)	0.6121
24-Hr Clear Runoff Volume (cu-ft)	26662.3874



Peak Flow Hydrologic Analysis

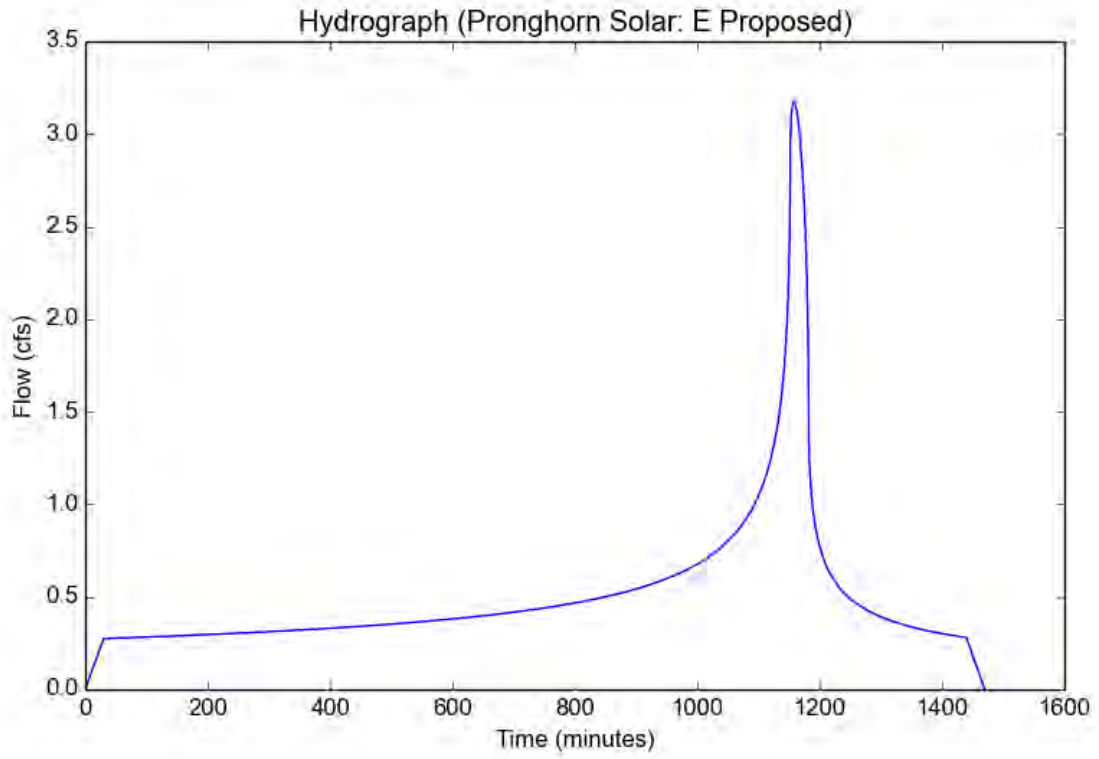
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Version: HydroCalc 1.0.3

Input Parameters

Project Name	Pronghorn Solar
Subarea ID	E Proposed
Area (ac)	30.04
Flow Path Length (ft)	1500.0
Flow Path Slope (vft/hft)	0.005
50-yr Rainfall Depth (in)	2.6
Percent Impervious	0.1
Soil Type	134
Design Storm Frequency	25-yr
Fire Factor	0.34
LID	False

Output Results

Modeled (25-yr) Rainfall Depth (in)	2.2828
Peak Intensity (in/hr)	0.5867
Undeveloped Runoff Coefficient (Cu)	0.1
Developed Runoff Coefficient (Cd)	0.18
Time of Concentration (min)	30.0
Clear Peak Flow Rate (cfs)	3.1726
Burned Peak Flow Rate (cfs)	4.5739
24-Hr Clear Runoff Volume (ac-ft)	1.0201
24-Hr Clear Runoff Volume (cu-ft)	44437.3124



Peak Flow Hydrologic Analysis

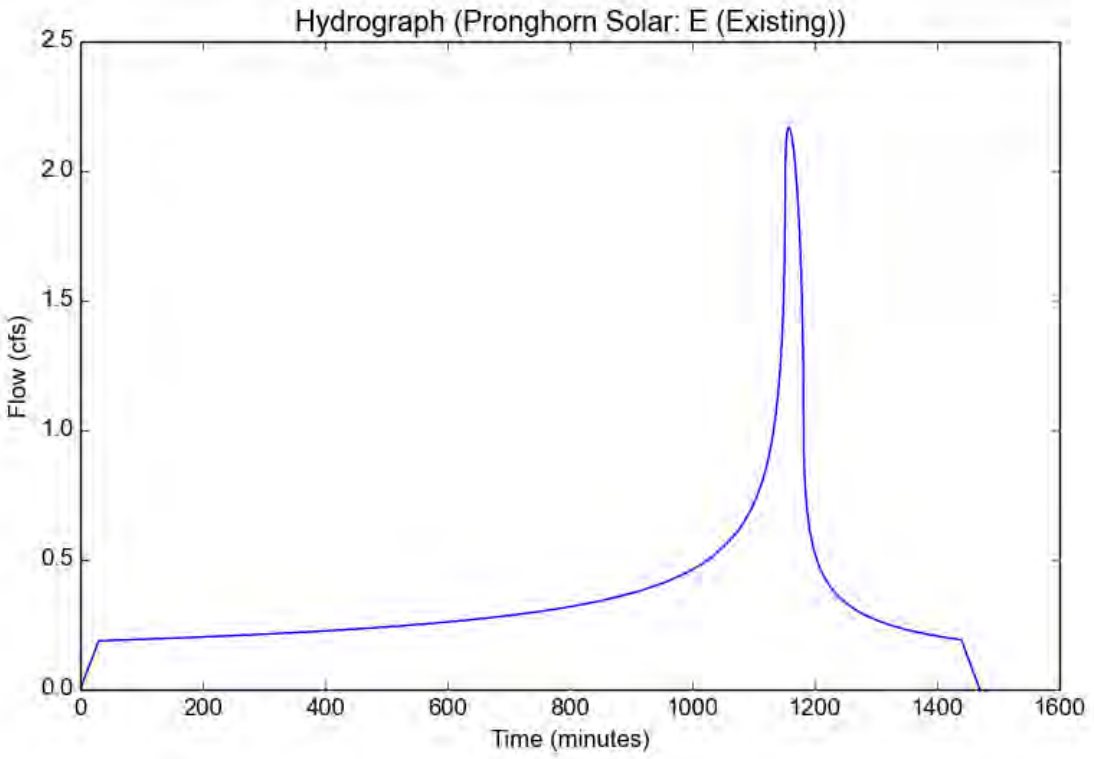
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Version: HydroCalc 1.0.3

Input Parameters

Project Name	Pronghorn Solar
Subarea ID	E (Existing)
Area (ac)	30.04
Flow Path Length (ft)	1500.0
Flow Path Slope (vft/hft)	0.005
50-yr Rainfall Depth (in)	2.6
Percent Impervious	0.01
Soil Type	134
Design Storm Frequency	50-yr
Fire Factor	0.34
LID	False

Output Results

Modeled (50-yr) Rainfall Depth (in)	2.6
Peak Intensity (in/hr)	0.6683
Undeveloped Runoff Coefficient (Cu)	0.1
Developed Runoff Coefficient (Cd)	0.108
Time of Concentration (min)	30.0
Clear Peak Flow Rate (cfs)	2.168
Burned Peak Flow Rate (cfs)	3.9615
24-Hr Clear Runoff Volume (ac-ft)	0.6971
24-Hr Clear Runoff Volume (cu-ft)	30367.1839



Peak Flow Hydrologic Analysis

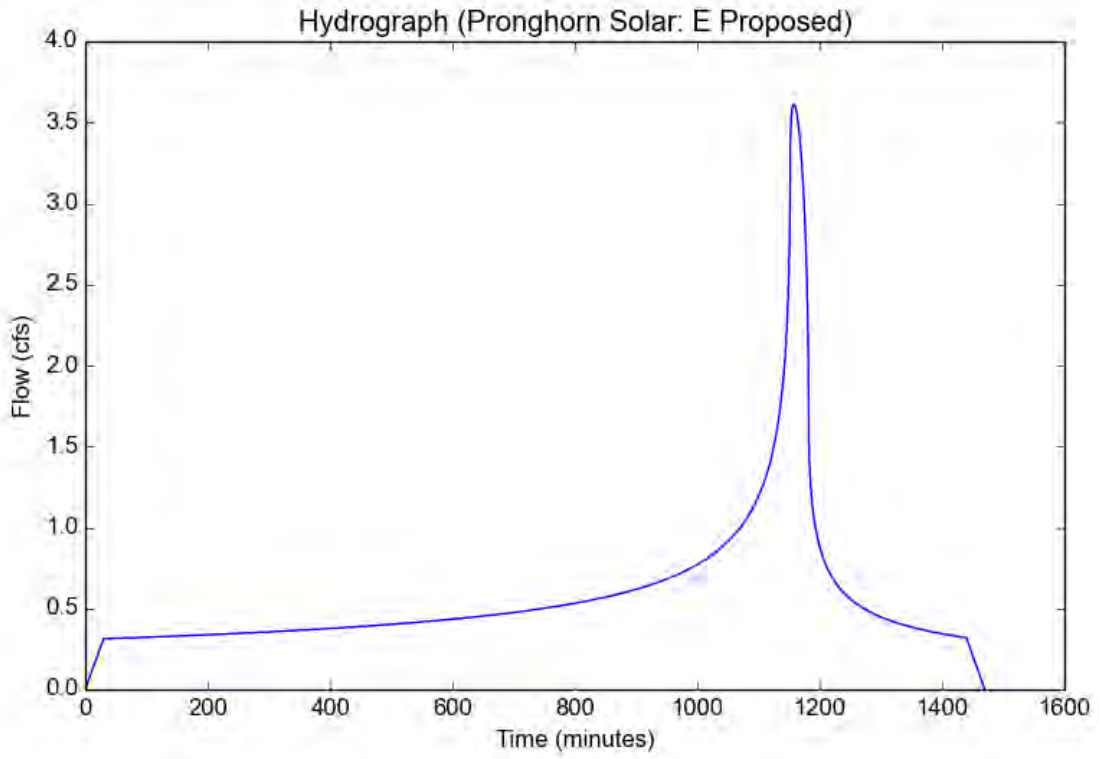
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Version: HydroCalc 1.0.3

Input Parameters

Project Name	Pronghorn Solar
Subarea ID	E Proposed
Area (ac)	30.04
Flow Path Length (ft)	1500.0
Flow Path Slope (vft/hft)	0.005
50-yr Rainfall Depth (in)	2.6
Percent Impervious	0.1
Soil Type	134
Design Storm Frequency	50-yr
Fire Factor	0.34
LID	False

Output Results

Modeled (50-yr) Rainfall Depth (in)	2.6
Peak Intensity (in/hr)	0.6683
Undeveloped Runoff Coefficient (Cu)	0.1
Developed Runoff Coefficient (Cd)	0.18
Time of Concentration (min)	30.0
Clear Peak Flow Rate (cfs)	3.6134
Burned Peak Flow Rate (cfs)	5.2621
24-Hr Clear Runoff Volume (ac-ft)	1.1619
24-Hr Clear Runoff Volume (cu-ft)	50611.9731



Peak Flow Hydrologic Analysis

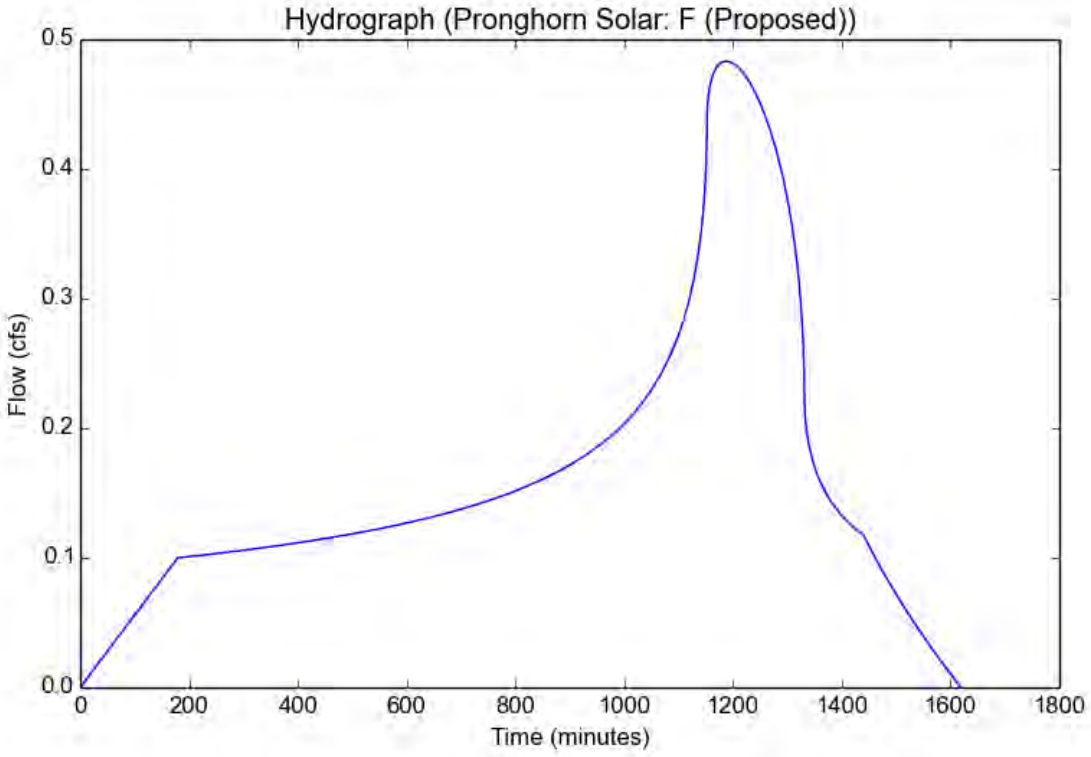
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Version: HydroCalc 1.0.3

Input Parameters

Project Name	Pronghorn Solar
Subarea ID	F (Proposed)
Area (ac)	32.24
Flow Path Length (ft)	1300.0
Flow Path Slope (vft/hft)	0.005
0.75-inch Rainfall Depth (in)	0.75
Percent Impervious	0.1
Soil Type	134
Design Storm Frequency	0.75 inch storm
Fire Factor	0.34
LID	True

Output Results

Modeled (0.75 inch storm) Rainfall Depth (in)	0.75
Peak Intensity (in/hr)	0.0833
Undeveloped Runoff Coefficient (Cu)	0.1
Developed Runoff Coefficient (Cd)	0.18
Time of Concentration (min)	179.0
Clear Peak Flow Rate (cfs)	0.4832
Burned Peak Flow Rate (cfs)	0.5787
24-Hr Clear Runoff Volume (ac-ft)	0.3599
24-Hr Clear Runoff Volume (cu-ft)	15675.7336



Peak Flow Hydrologic Analysis

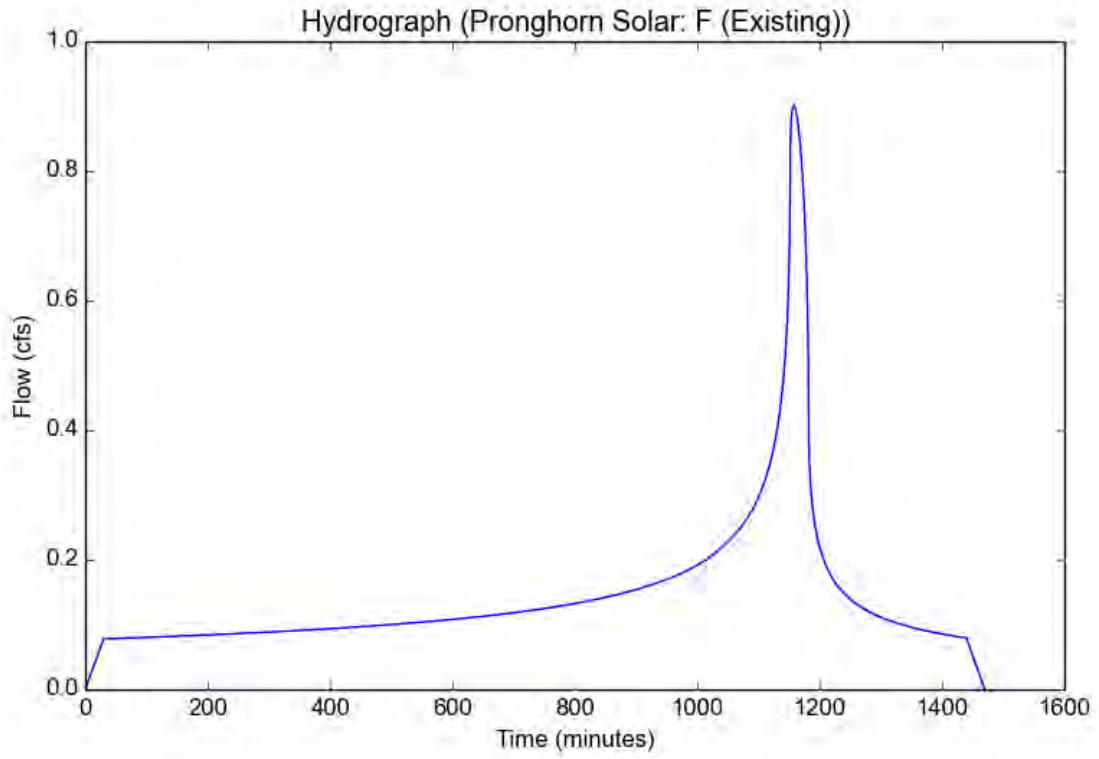
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Version: HydroCalc 1.0.3

Input Parameters

Project Name	Pronghorn Solar
Subarea ID	F (Existing)
Area (ac)	32.24
Flow Path Length (ft)	1300.0
Flow Path Slope (vft/hft)	0.005
50-yr Rainfall Depth (in)	2.6
Percent Impervious	0.01
Soil Type	134
Design Storm Frequency	2-yr
Fire Factor	0.34
LID	False

Output Results

Modeled (2-yr) Rainfall Depth (in)	1.0062
Peak Intensity (in/hr)	0.2586
Undeveloped Runoff Coefficient (Cu)	0.1
Developed Runoff Coefficient (Cd)	0.108
Time of Concentration (min)	30.0
Clear Peak Flow Rate (cfs)	0.9005
Burned Peak Flow Rate (cfs)	1.464
24-Hr Clear Runoff Volume (ac-ft)	0.2895
24-Hr Clear Runoff Volume (cu-ft)	12612.7733



Peak Flow Hydrologic Analysis

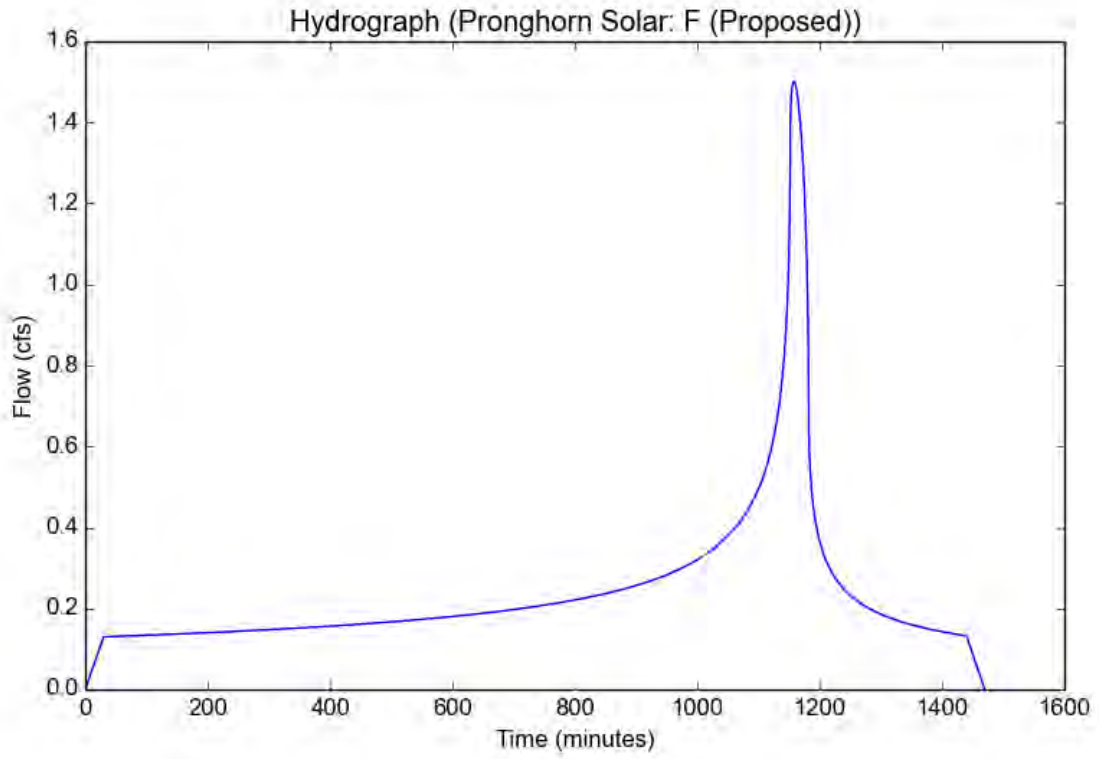
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Version: HydroCalc 1.0.3

Input Parameters

Project Name	Pronghorn Solar
Subarea ID	F (Proposed)
Area (ac)	32.24
Flow Path Length (ft)	1300.0
Flow Path Slope (vft/hft)	0.005
50-yr Rainfall Depth (in)	2.6
Percent Impervious	0.1
Soil Type	134
Design Storm Frequency	2-yr
Fire Factor	0.34
LID	False

Output Results

Modeled (2-yr) Rainfall Depth (in)	1.0062
Peak Intensity (in/hr)	0.2586
Undeveloped Runoff Coefficient (Cu)	0.1
Developed Runoff Coefficient (Cd)	0.18
Time of Concentration (min)	30.0
Clear Peak Flow Rate (cfs)	1.5008
Burned Peak Flow Rate (cfs)	2.0189
24-Hr Clear Runoff Volume (ac-ft)	0.4826
24-Hr Clear Runoff Volume (cu-ft)	21021.2888



Peak Flow Hydrologic Analysis

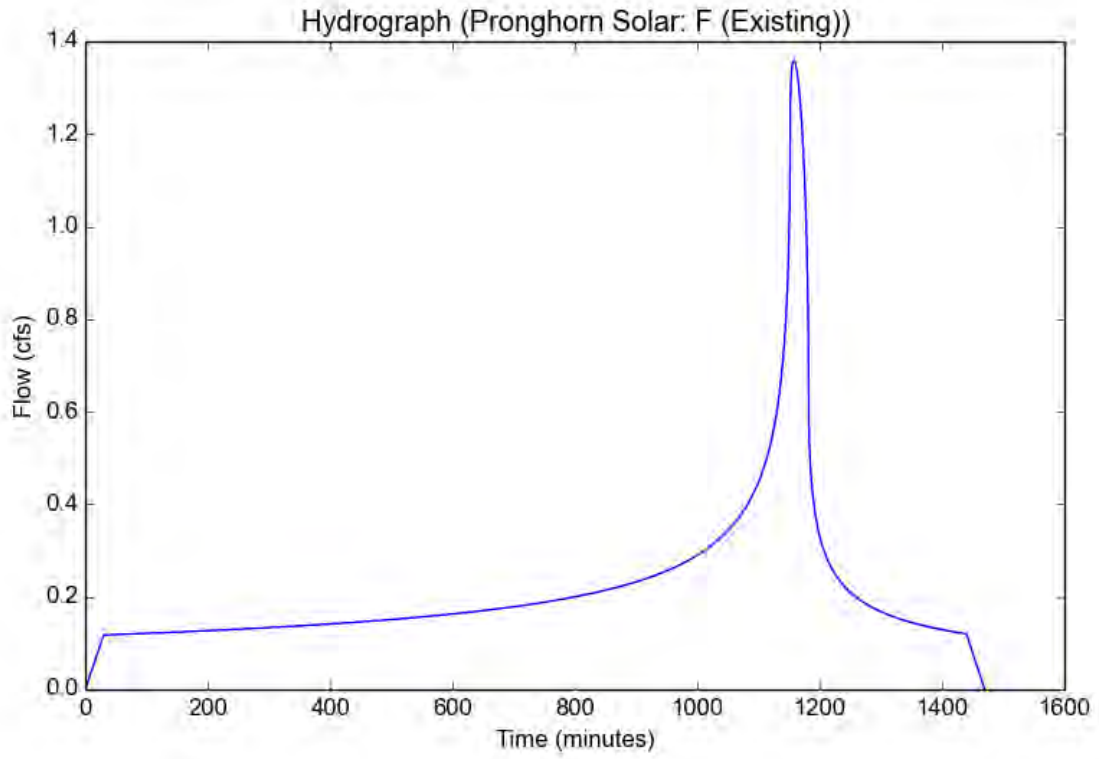
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Version: HydroCalc 1.0.3

Input Parameters

Project Name	Pronghorn Solar
Subarea ID	F (Existing)
Area (ac)	32.24
Flow Path Length (ft)	1300.0
Flow Path Slope (vft/hft)	0.005
50-yr Rainfall Depth (in)	2.6
Percent Impervious	0.01
Soil Type	134
Design Storm Frequency	5-yr
Fire Factor	0.34
LID	False

Output Results

Modeled (5-yr) Rainfall Depth (in)	1.5184
Peak Intensity (in/hr)	0.3903
Undeveloped Runoff Coefficient (Cu)	0.1
Developed Runoff Coefficient (Cd)	0.108
Time of Concentration (min)	30.0
Clear Peak Flow Rate (cfs)	1.3589
Burned Peak Flow Rate (cfs)	2.3312
24-Hr Clear Runoff Volume (ac-ft)	0.4369
24-Hr Clear Runoff Volume (cu-ft)	19033.2289



Peak Flow Hydrologic Analysis

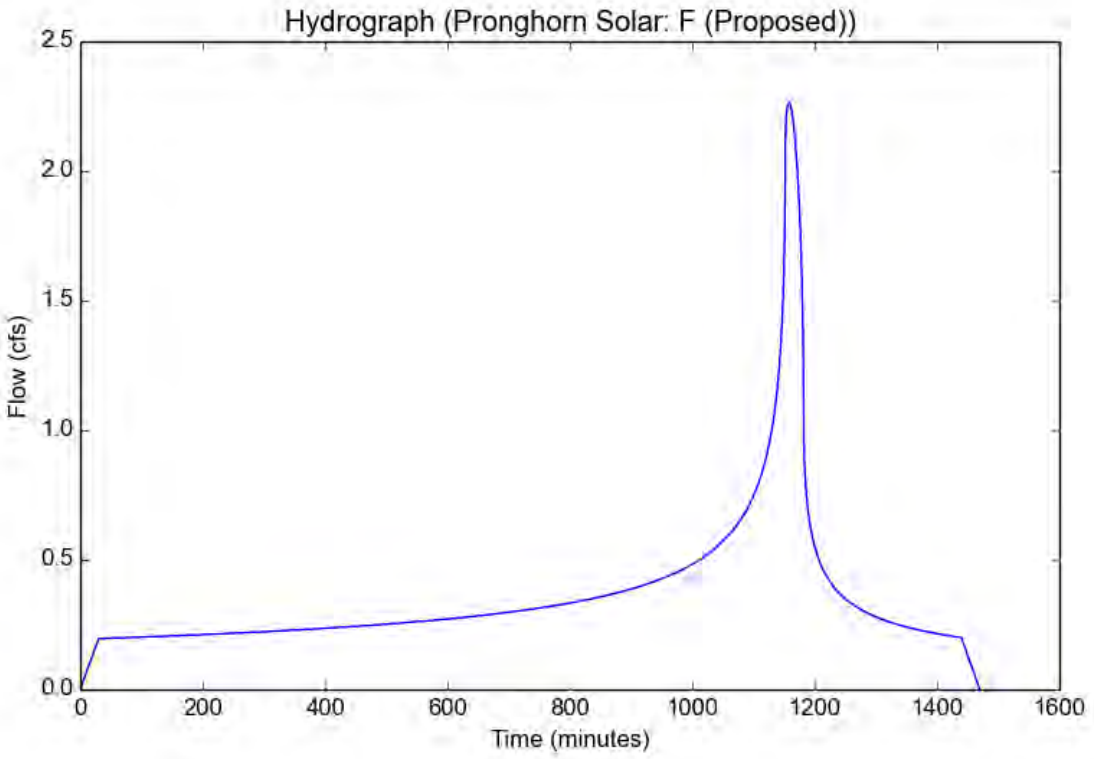
File location: X:/2024/24030/DRAINAGE/SWQDV SHEETS/20250905/24030_Pronghorn Solar - F 5YR PROP.pdf
Version: HydroCalc 1.0.3

Input Parameters

Project Name	Pronghorn Solar
Subarea ID	F (Proposed)
Area (ac)	32.24
Flow Path Length (ft)	1300.0
Flow Path Slope (vft/hft)	0.005
50-yr Rainfall Depth (in)	2.6
Percent Impervious	0.1
Soil Type	134
Design Storm Frequency	5-yr
Fire Factor	0.34
LID	False

Output Results

Modeled (5-yr) Rainfall Depth (in)	1.5184
Peak Intensity (in/hr)	0.3903
Undeveloped Runoff Coefficient (Cu)	0.1
Developed Runoff Coefficient (Cd)	0.18
Time of Concentration (min)	30.0
Clear Peak Flow Rate (cfs)	2.2648
Burned Peak Flow Rate (cfs)	3.1586
24-Hr Clear Runoff Volume (ac-ft)	0.7282
24-Hr Clear Runoff Volume (cu-ft)	31722.0482



Peak Flow Hydrologic Analysis

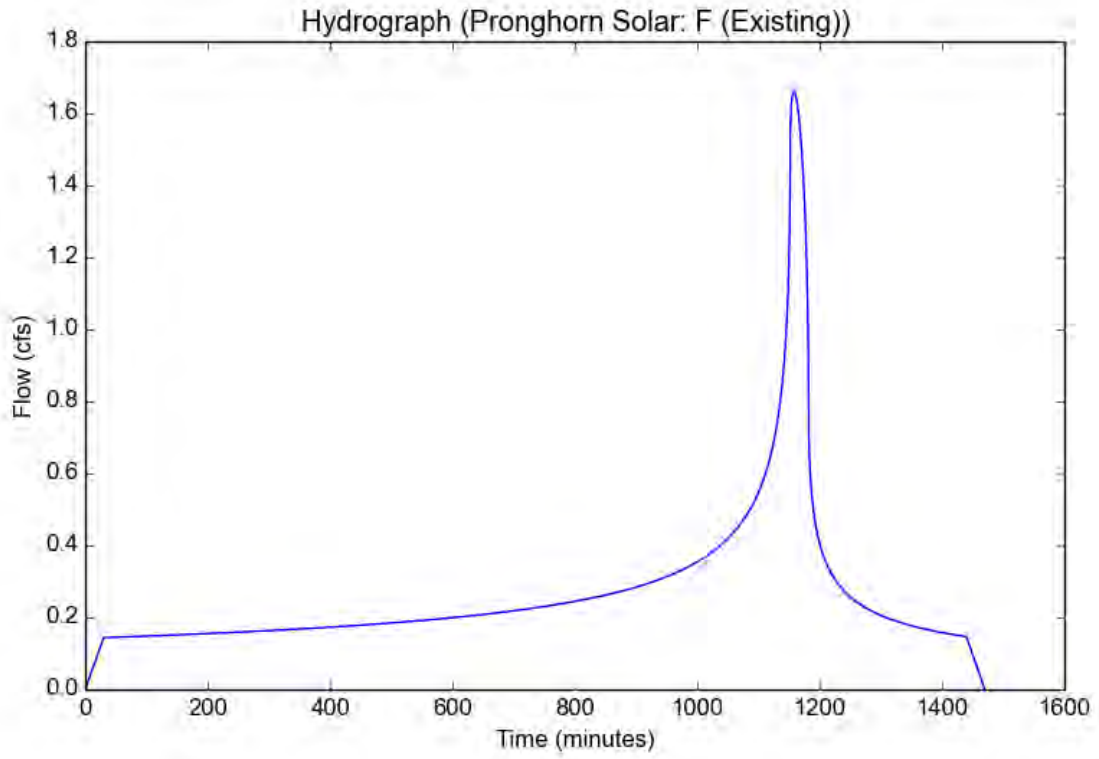
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Version: HydroCalc 1.0.3

Input Parameters

Project Name	Pronghorn Solar
Subarea ID	F (Existing)
Area (ac)	32.24
Flow Path Length (ft)	1300.0
Flow Path Slope (vft/hft)	0.005
50-yr Rainfall Depth (in)	2.6
Percent Impervious	0.01
Soil Type	134
Design Storm Frequency	10-yr
Fire Factor	0.34
LID	False

Output Results

Modeled (10-yr) Rainfall Depth (in)	1.8564
Peak Intensity (in/hr)	0.4771
Undeveloped Runoff Coefficient (Cu)	0.1
Developed Runoff Coefficient (Cd)	0.108
Time of Concentration (min)	30.0
Clear Peak Flow Rate (cfs)	1.6614
Burned Peak Flow Rate (cfs)	2.9206
24-Hr Clear Runoff Volume (ac-ft)	0.5342
24-Hr Clear Runoff Volume (cu-ft)	23270.0778



Peak Flow Hydrologic Analysis

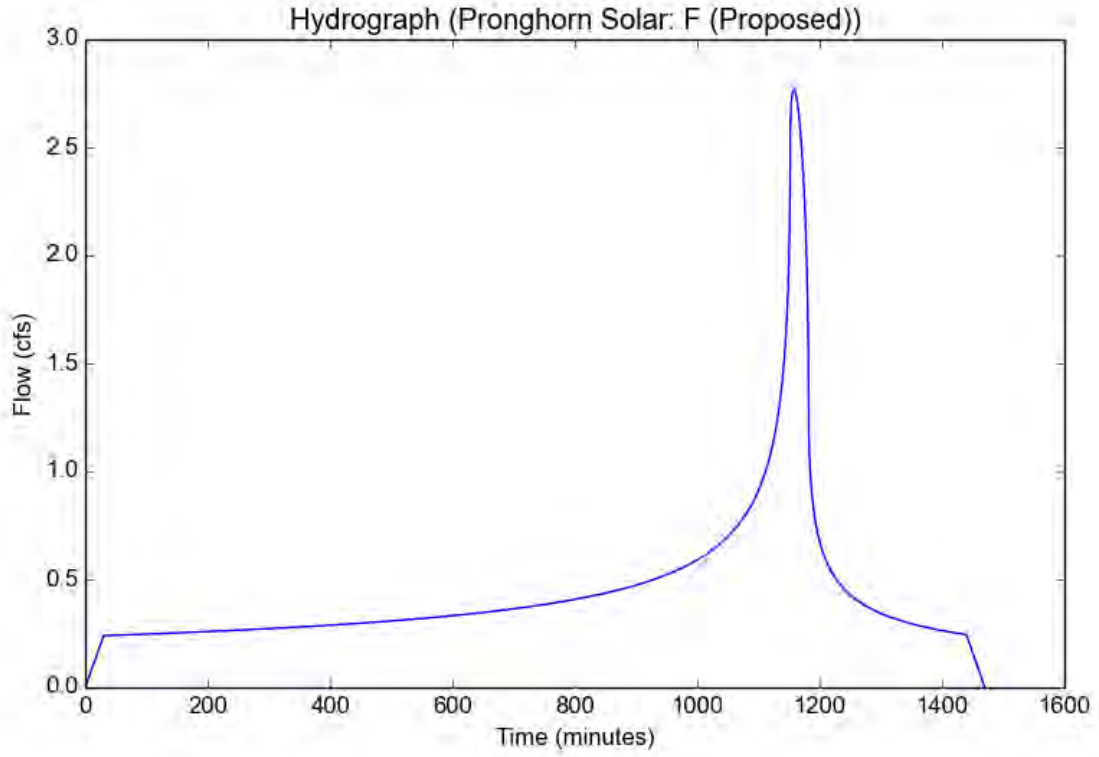
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Version: HydroCalc 1.0.3

Input Parameters

Project Name	Pronghorn Solar
Subarea ID	F (Proposed)
Area (ac)	32.24
Flow Path Length (ft)	1300.0
Flow Path Slope (vft/hft)	0.005
50-yr Rainfall Depth (in)	2.6
Percent Impervious	0.1
Soil Type	134
Design Storm Frequency	10-yr
Fire Factor	0.34
LID	False

Output Results

Modeled (10-yr) Rainfall Depth (in)	1.8564
Peak Intensity (in/hr)	0.4771
Undeveloped Runoff Coefficient (Cu)	0.1
Developed Runoff Coefficient (Cd)	0.18
Time of Concentration (min)	30.0
Clear Peak Flow Rate (cfs)	2.7689
Burned Peak Flow Rate (cfs)	3.9266
24-Hr Clear Runoff Volume (ac-ft)	0.8903
24-Hr Clear Runoff Volume (cu-ft)	38783.463



Peak Flow Hydrologic Analysis

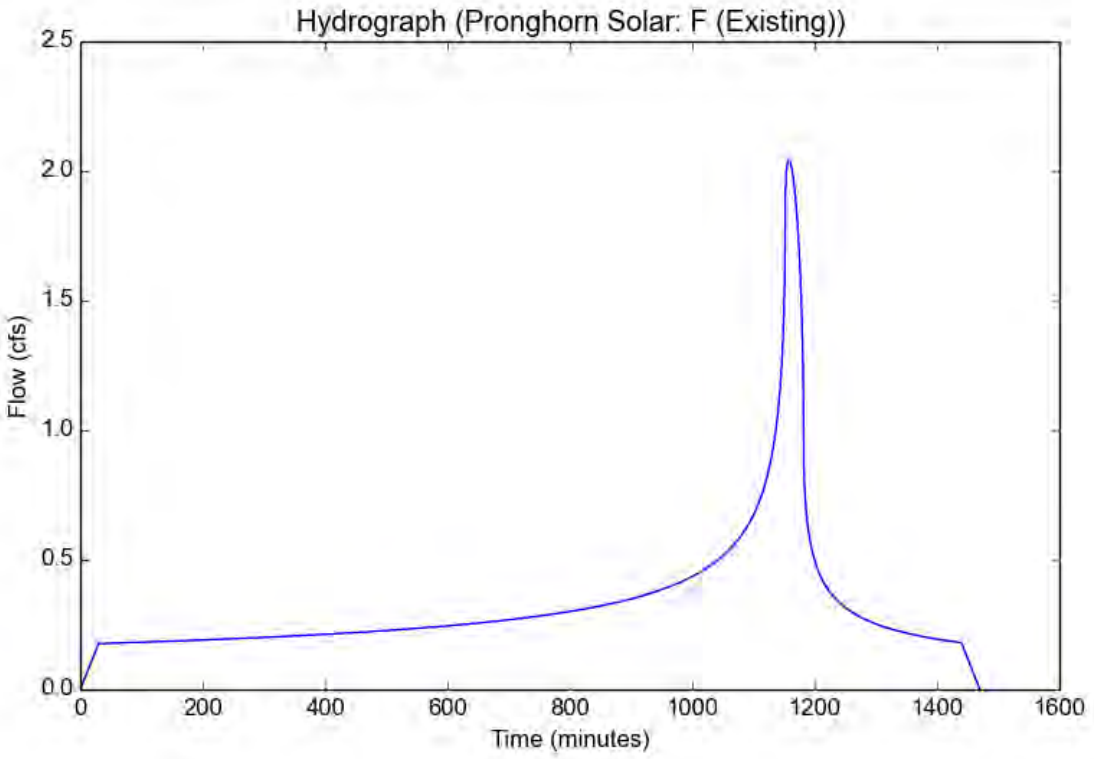
File location: X:/2024/24030/DRAINAGE/SWQDV SHEETS/20250905/24030_Pronghorn Solar - F 25YR EXIST.pdf
Version: HydroCalc 1.0.3

Input Parameters

Project Name	Pronghorn Solar
Subarea ID	F (Existing)
Area (ac)	32.24
Flow Path Length (ft)	1300.0
Flow Path Slope (vft/hft)	0.005
50-yr Rainfall Depth (in)	2.6
Percent Impervious	0.01
Soil Type	134
Design Storm Frequency	25-yr
Fire Factor	0.34
LID	False

Output Results

Modeled (25-yr) Rainfall Depth (in)	2.2828
Peak Intensity (in/hr)	0.5867
Undeveloped Runoff Coefficient (Cu)	0.1
Developed Runoff Coefficient (Cd)	0.108
Time of Concentration (min)	30.0
Clear Peak Flow Rate (cfs)	2.043
Burned Peak Flow Rate (cfs)	3.6789
24-Hr Clear Runoff Volume (ac-ft)	0.6569
24-Hr Clear Runoff Volume (cu-ft)	28615.0257



Peak Flow Hydrologic Analysis

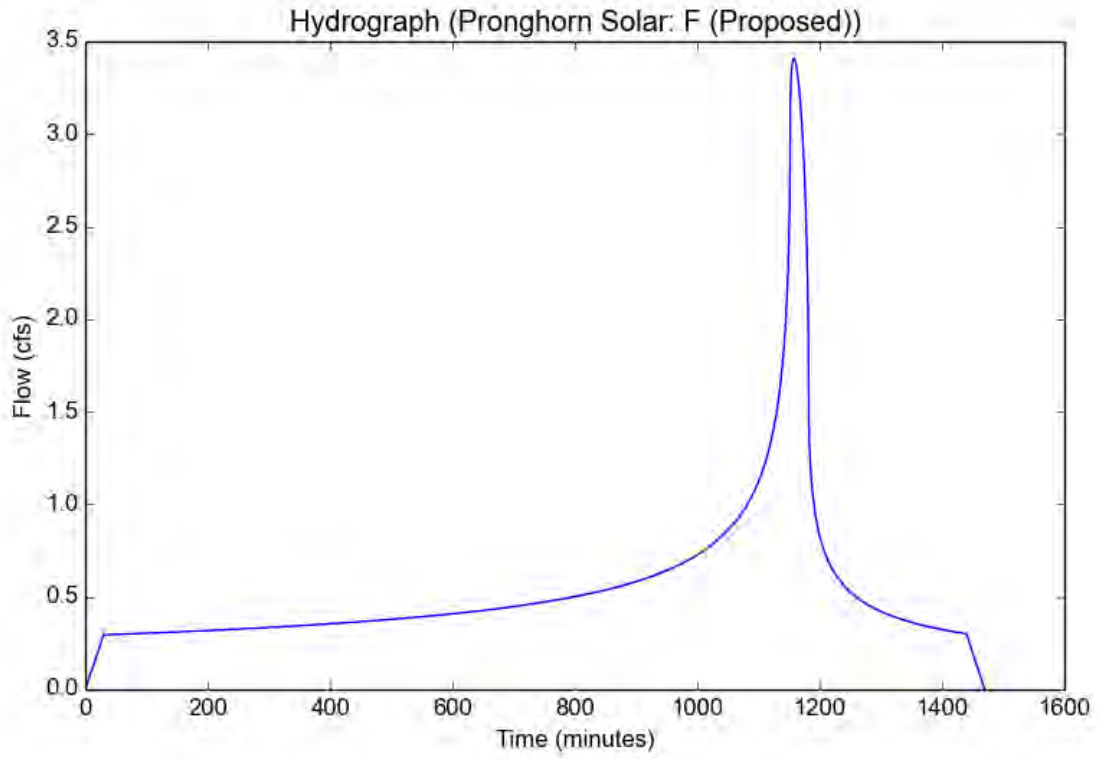
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Version: HydroCalc 1.0.3

Input Parameters

Project Name	Pronghorn Solar
Subarea ID	F (Proposed)
Area (ac)	32.24
Flow Path Length (ft)	1300.0
Flow Path Slope (vft/hft)	0.005
50-yr Rainfall Depth (in)	2.6
Percent Impervious	0.1
Soil Type	134
Design Storm Frequency	25-yr
Fire Factor	0.34
LID	False

Output Results

Modeled (25-yr) Rainfall Depth (in)	2.2828
Peak Intensity (in/hr)	0.5867
Undeveloped Runoff Coefficient (Cu)	0.1
Developed Runoff Coefficient (Cd)	0.18
Time of Concentration (min)	30.0
Clear Peak Flow Rate (cfs)	3.4049
Burned Peak Flow Rate (cfs)	4.9088
24-Hr Clear Runoff Volume (ac-ft)	1.0949
24-Hr Clear Runoff Volume (cu-ft)	47691.7094



Peak Flow Hydrologic Analysis

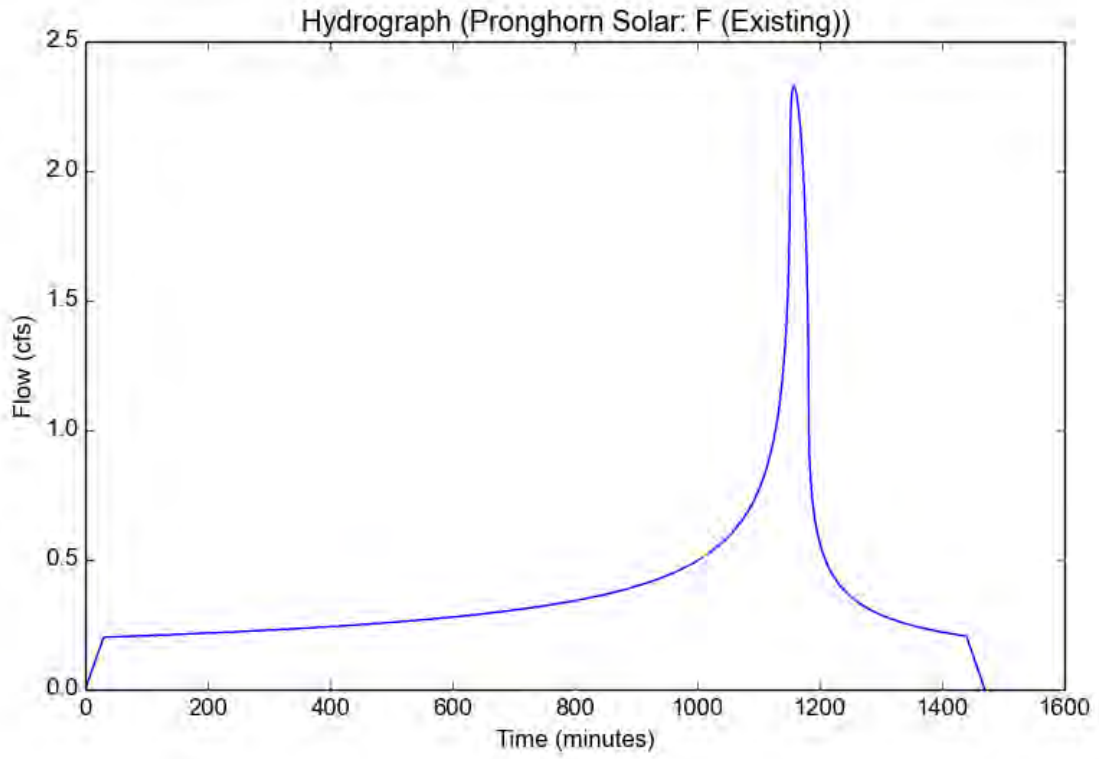
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Version: HydroCalc 1.0.3

Input Parameters

Project Name	Pronghorn Solar
Subarea ID	F (Existing)
Area (ac)	32.24
Flow Path Length (ft)	1300.0
Flow Path Slope (vft/hft)	0.005
50-yr Rainfall Depth (in)	2.6
Percent Impervious	0.01
Soil Type	134
Design Storm Frequency	50-yr
Fire Factor	0.34
LID	False

Output Results

Modeled (50-yr) Rainfall Depth (in)	2.6
Peak Intensity (in/hr)	0.6683
Undeveloped Runoff Coefficient (Cu)	0.1
Developed Runoff Coefficient (Cd)	0.108
Time of Concentration (min)	30.0
Clear Peak Flow Rate (cfs)	2.3268
Burned Peak Flow Rate (cfs)	4.2517
24-Hr Clear Runoff Volume (ac-ft)	0.7482
24-Hr Clear Runoff Volume (cu-ft)	32591.1454



Peak Flow Hydrologic Analysis

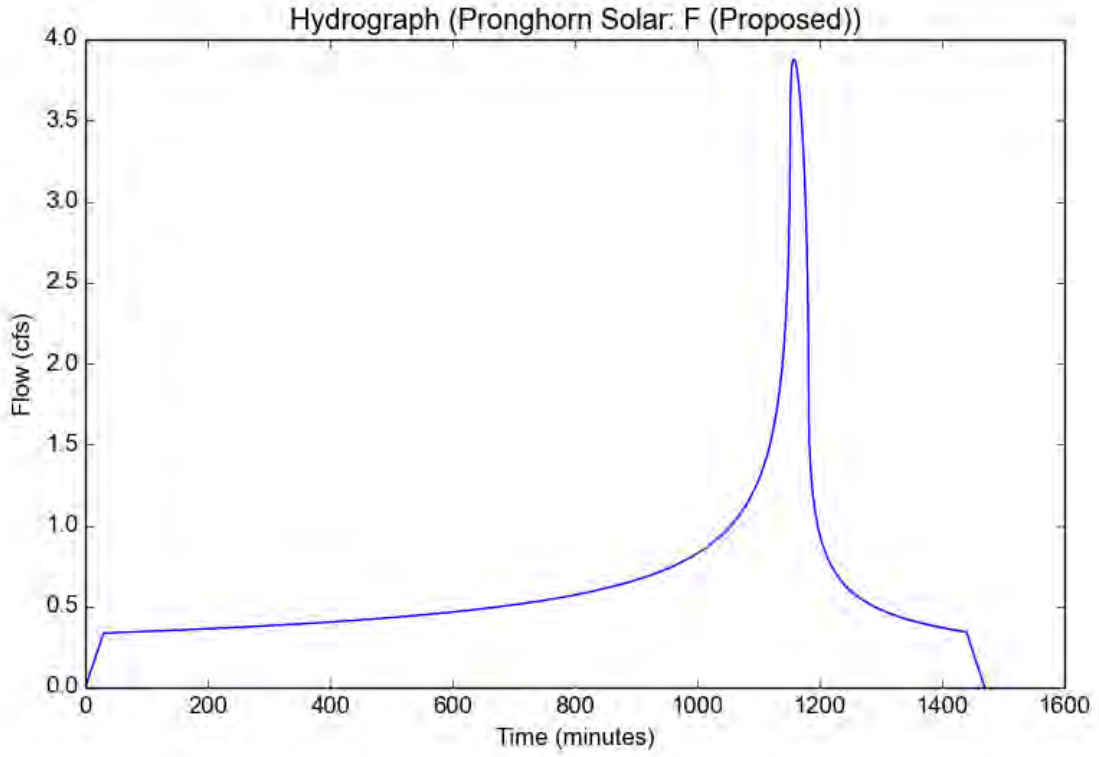
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Version: HydroCalc 1.0.3

Input Parameters

Project Name	Pronghorn Solar
Subarea ID	F (Proposed)
Area (ac)	32.24
Flow Path Length (ft)	1300.0
Flow Path Slope (vft/hft)	0.005
50-yr Rainfall Depth (in)	2.6
Percent Impervious	0.1
Soil Type	134
Design Storm Frequency	50-yr
Fire Factor	0.34
LID	False

Output Results

Modeled (50-yr) Rainfall Depth (in)	2.6
Peak Intensity (in/hr)	0.6683
Undeveloped Runoff Coefficient (Cu)	0.1
Developed Runoff Coefficient (Cd)	0.18
Time of Concentration (min)	30.0
Clear Peak Flow Rate (cfs)	3.878
Burned Peak Flow Rate (cfs)	5.6475
24-Hr Clear Runoff Volume (ac-ft)	1.247
24-Hr Clear Runoff Volume (cu-ft)	54318.5756



Peak Flow Hydrologic Analysis

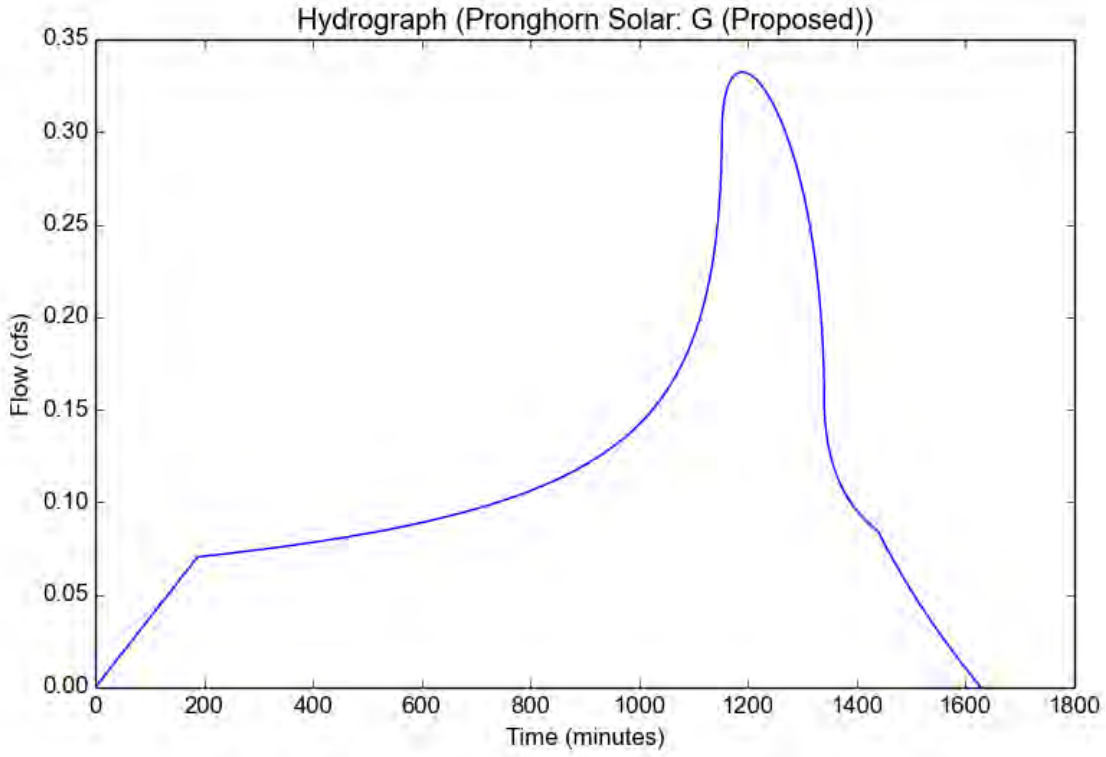
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Version: HydroCalc 1.0.3

Input Parameters

Project Name	Pronghorn Solar
Subarea ID	G (Proposed)
Area (ac)	22.69
Flow Path Length (ft)	1400.0
Flow Path Slope (vft/hft)	0.005
0.75-inch Rainfall Depth (in)	0.75
Percent Impervious	0.1
Soil Type	134
Design Storm Frequency	0.75 inch storm
Fire Factor	0.34
LID	True

Output Results

Modeled (0.75 inch storm) Rainfall Depth (in)	0.75
Peak Intensity (in/hr)	0.0814
Undeveloped Runoff Coefficient (Cu)	0.1
Developed Runoff Coefficient (Cd)	0.18
Time of Concentration (min)	188.0
Clear Peak Flow Rate (cfs)	0.3323
Burned Peak Flow Rate (cfs)	0.3969
24-Hr Clear Runoff Volume (ac-ft)	0.2533
24-Hr Clear Runoff Volume (cu-ft)	11032.8831



Peak Flow Hydrologic Analysis

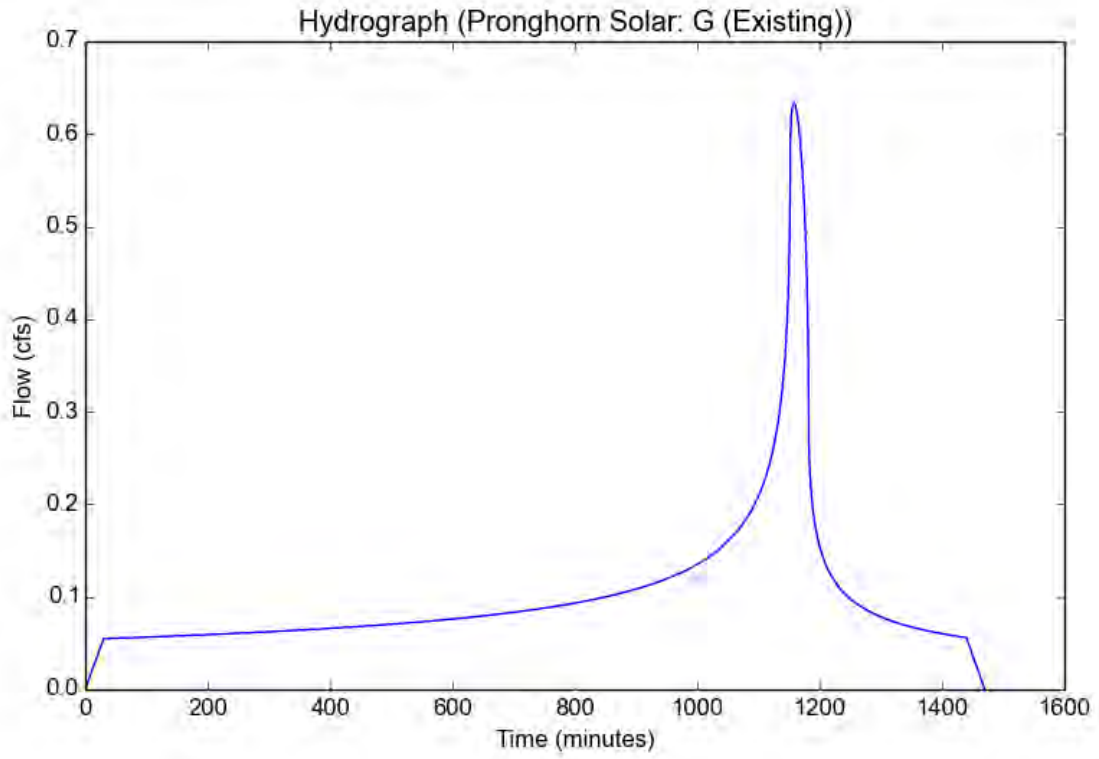
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Version: HydroCalc 1.0.3

Input Parameters

Project Name	Pronghorn Solar
Subarea ID	G (Existing)
Area (ac)	22.69
Flow Path Length (ft)	1400.0
Flow Path Slope (vft/hft)	0.005
50-yr Rainfall Depth (in)	2.6
Percent Impervious	0.01
Soil Type	134
Design Storm Frequency	2-yr
Fire Factor	0.34
LID	False

Output Results

Modeled (2-yr) Rainfall Depth (in)	1.0062
Peak Intensity (in/hr)	0.2586
Undeveloped Runoff Coefficient (Cu)	0.1
Developed Runoff Coefficient (Cd)	0.108
Time of Concentration (min)	30.0
Clear Peak Flow Rate (cfs)	0.6337
Burned Peak Flow Rate (cfs)	1.0304
24-Hr Clear Runoff Volume (ac-ft)	0.2038
24-Hr Clear Runoff Volume (cu-ft)	8876.6695



Peak Flow Hydrologic Analysis

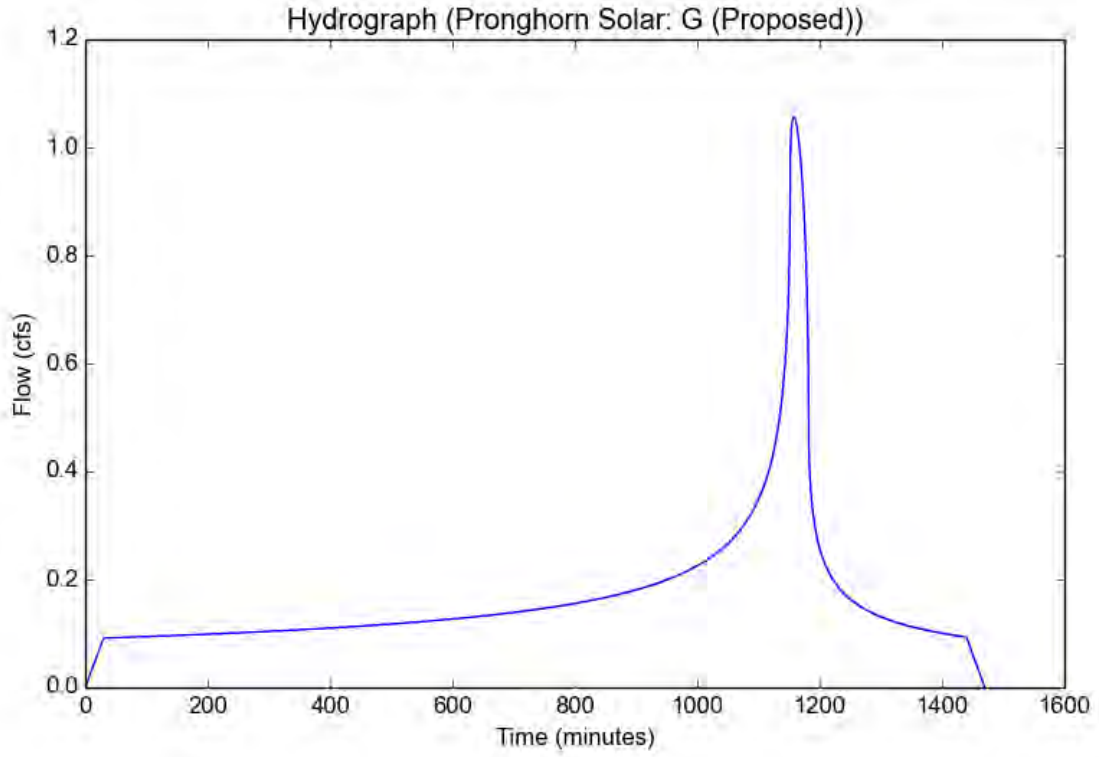
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Version: HydroCalc 1.0.3

Input Parameters

Project Name	Pronghorn Solar
Subarea ID	G (Proposed)
Area (ac)	22.69
Flow Path Length (ft)	1400.0
Flow Path Slope (vft/hft)	0.005
50-yr Rainfall Depth (in)	2.6
Percent Impervious	0.1
Soil Type	134
Design Storm Frequency	2-yr
Fire Factor	0.34
LID	False

Output Results

Modeled (2-yr) Rainfall Depth (in)	1.0062
Peak Intensity (in/hr)	0.2586
Undeveloped Runoff Coefficient (Cu)	0.1
Developed Runoff Coefficient (Cd)	0.18
Time of Concentration (min)	30.0
Clear Peak Flow Rate (cfs)	1.0562
Burned Peak Flow Rate (cfs)	1.4208
24-Hr Clear Runoff Volume (ac-ft)	0.3396
24-Hr Clear Runoff Volume (cu-ft)	14794.4492



Peak Flow Hydrologic Analysis

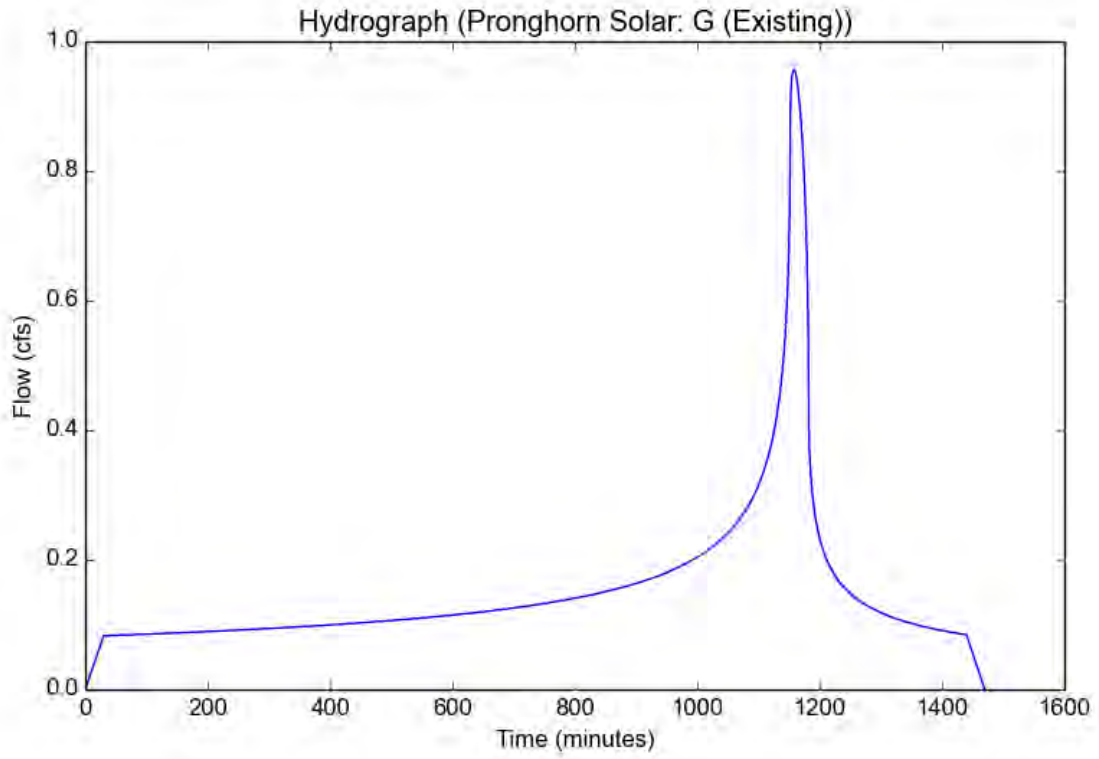
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Version: HydroCalc 1.0.3

Input Parameters

Project Name	Pronghorn Solar
Subarea ID	G (Existing)
Area (ac)	22.69
Flow Path Length (ft)	1400.0
Flow Path Slope (vft/hft)	0.005
50-yr Rainfall Depth (in)	2.6
Percent Impervious	0.01
Soil Type	134
Design Storm Frequency	5-yr
Fire Factor	0.34
LID	False

Output Results

Modeled (5-yr) Rainfall Depth (in)	1.5184
Peak Intensity (in/hr)	0.3903
Undeveloped Runoff Coefficient (Cu)	0.1
Developed Runoff Coefficient (Cd)	0.108
Time of Concentration (min)	30.0
Clear Peak Flow Rate (cfs)	0.9563
Burned Peak Flow Rate (cfs)	1.6406
24-Hr Clear Runoff Volume (ac-ft)	0.3075
24-Hr Clear Runoff Volume (cu-ft)	13395.2842



Peak Flow Hydrologic Analysis

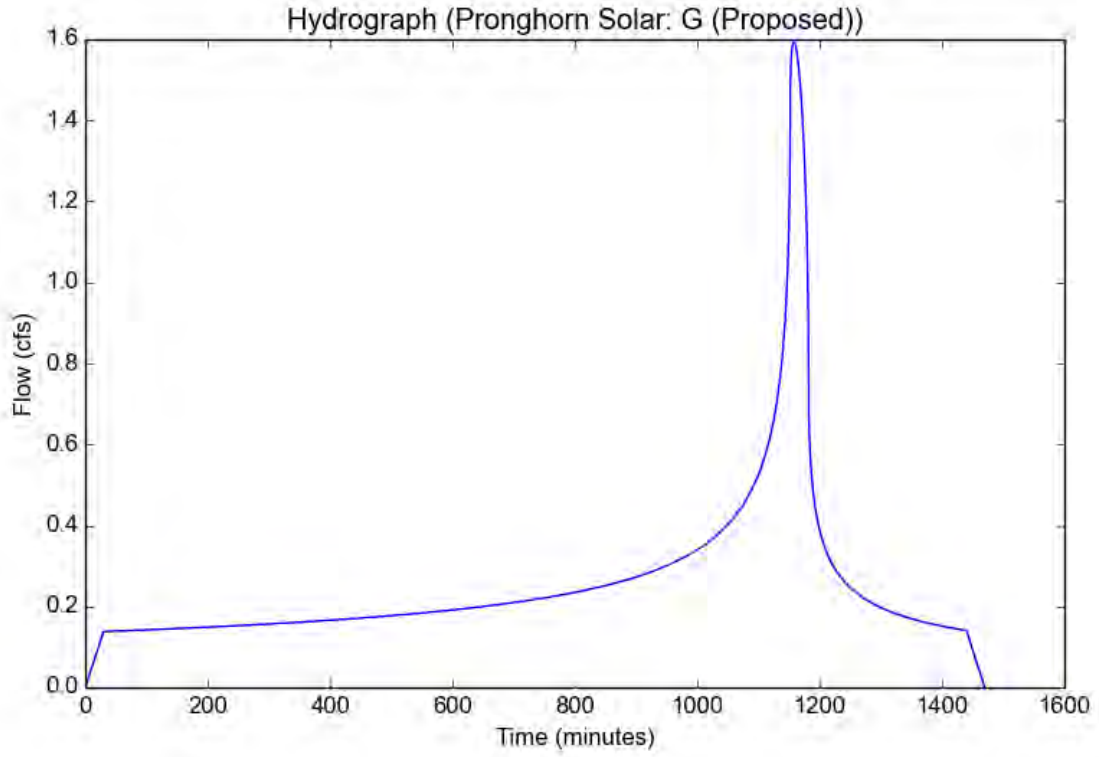
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Version: HydroCalc 1.0.3

Input Parameters

Project Name	Pronghorn Solar
Subarea ID	G (Proposed)
Area (ac)	22.69
Flow Path Length (ft)	1400.0
Flow Path Slope (vft/hft)	0.005
50-yr Rainfall Depth (in)	2.6
Percent Impervious	0.1
Soil Type	134
Design Storm Frequency	5-yr
Fire Factor	0.34
LID	False

Output Results

Modeled (5-yr) Rainfall Depth (in)	1.5184
Peak Intensity (in/hr)	0.3903
Undeveloped Runoff Coefficient (Cu)	0.1
Developed Runoff Coefficient (Cd)	0.18
Time of Concentration (min)	30.0
Clear Peak Flow Rate (cfs)	1.5939
Burned Peak Flow Rate (cfs)	2.223
24-Hr Clear Runoff Volume (ac-ft)	0.5125
24-Hr Clear Runoff Volume (cu-ft)	22325.4737



Peak Flow Hydrologic Analysis

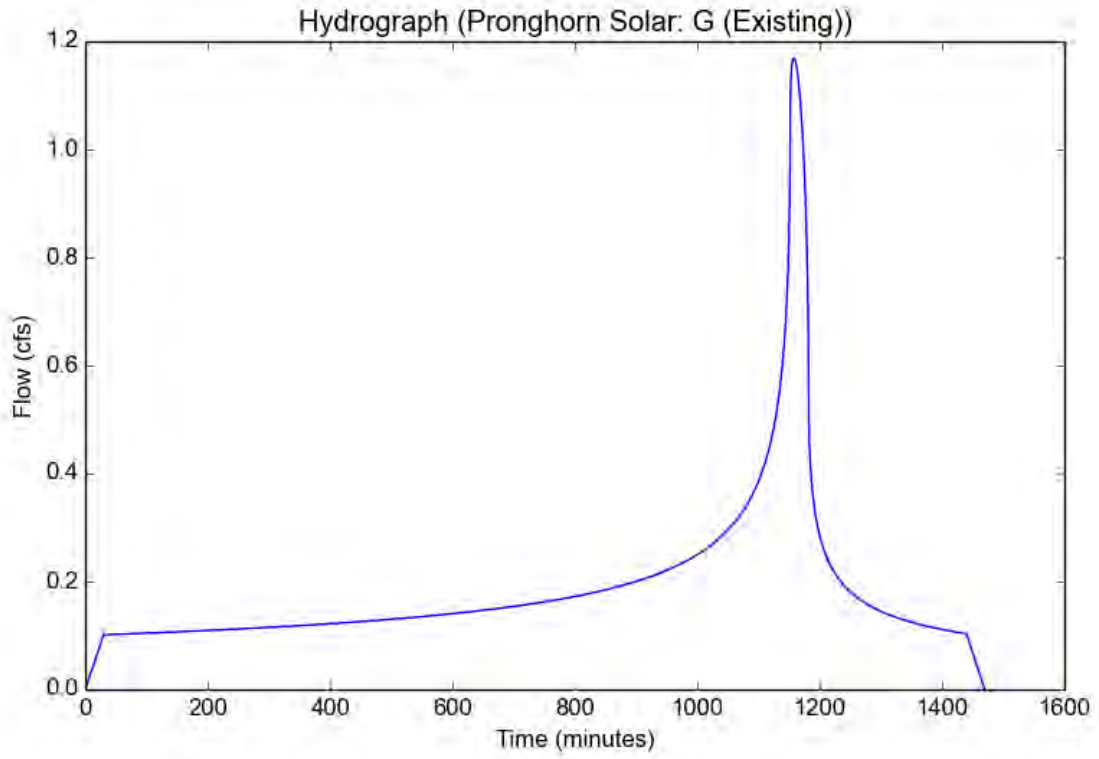
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Version: HydroCalc 1.0.3

Input Parameters

Project Name	Pronghorn Solar
Subarea ID	G (Existing)
Area (ac)	22.69
Flow Path Length (ft)	1400.0
Flow Path Slope (vft/hft)	0.005
50-yr Rainfall Depth (in)	2.6
Percent Impervious	0.01
Soil Type	134
Design Storm Frequency	10-yr
Fire Factor	0.34
LID	False

Output Results

Modeled (10-yr) Rainfall Depth (in)	1.8564
Peak Intensity (in/hr)	0.4771
Undeveloped Runoff Coefficient (Cu)	0.1
Developed Runoff Coefficient (Cd)	0.108
Time of Concentration (min)	30.0
Clear Peak Flow Rate (cfs)	1.1692
Burned Peak Flow Rate (cfs)	2.0555
24-Hr Clear Runoff Volume (ac-ft)	0.376
24-Hr Clear Runoff Volume (cu-ft)	16377.1112



Peak Flow Hydrologic Analysis

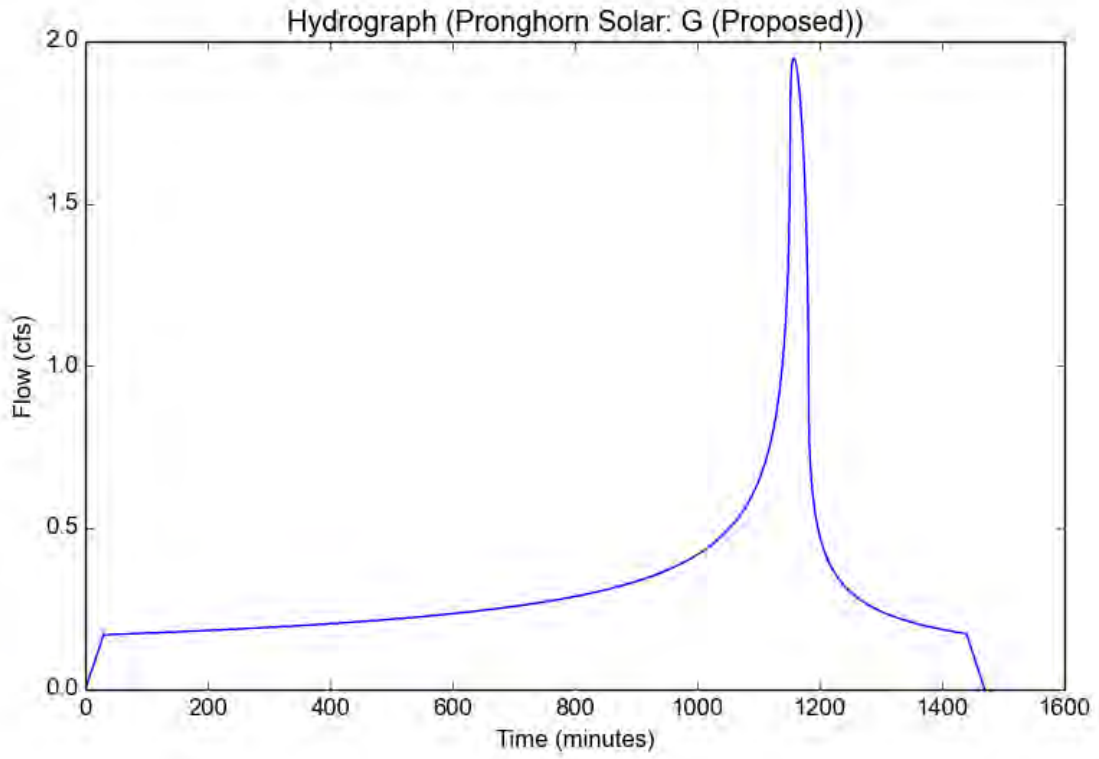
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Version: HydroCalc 1.0.3

Input Parameters

Project Name	Pronghorn Solar
Subarea ID	G (Proposed)
Area (ac)	22.69
Flow Path Length (ft)	1400.0
Flow Path Slope (vft/hft)	0.005
50-yr Rainfall Depth (in)	2.6
Percent Impervious	0.1
Soil Type	134
Design Storm Frequency	10-yr
Fire Factor	0.34
LID	False

Output Results

Modeled (10-yr) Rainfall Depth (in)	1.8564
Peak Intensity (in/hr)	0.4771
Undeveloped Runoff Coefficient (Cu)	0.1
Developed Runoff Coefficient (Cd)	0.18
Time of Concentration (min)	30.0
Clear Peak Flow Rate (cfs)	1.9487
Burned Peak Flow Rate (cfs)	2.7635
24-Hr Clear Runoff Volume (ac-ft)	0.6266
24-Hr Clear Runoff Volume (cu-ft)	27295.1854



Peak Flow Hydrologic Analysis

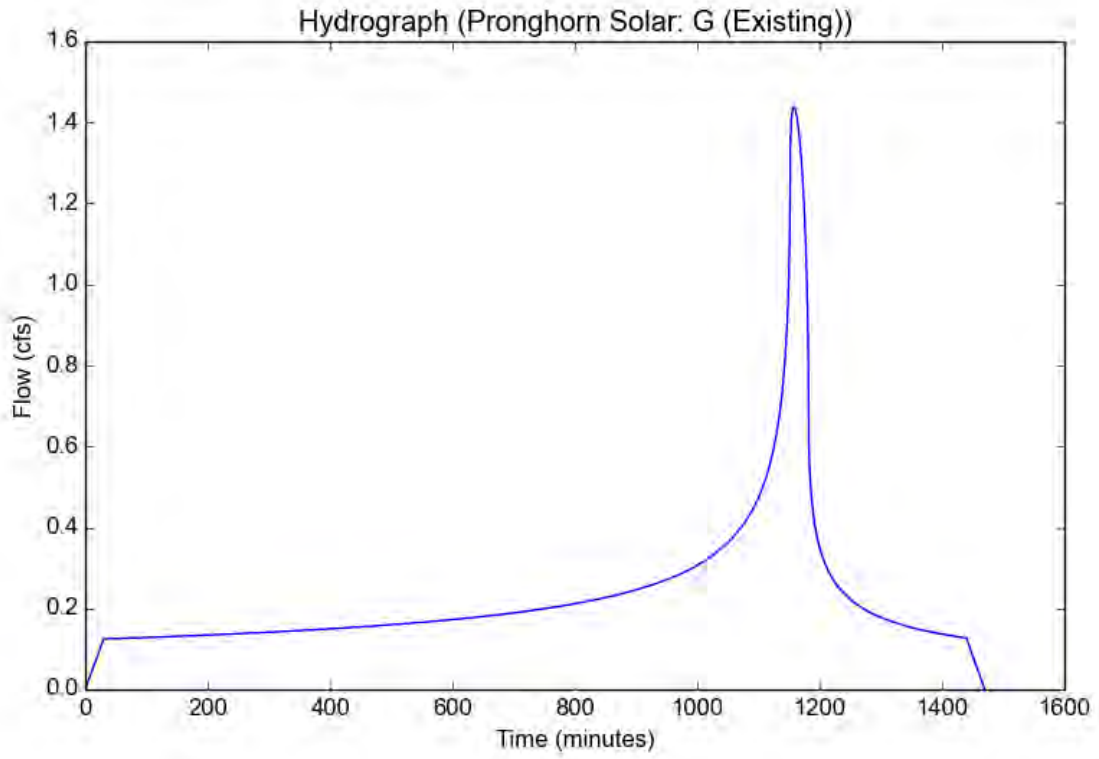
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Version: HydroCalc 1.0.3

Input Parameters

Project Name	Pronghorn Solar
Subarea ID	G (Existing)
Area (ac)	22.69
Flow Path Length (ft)	1400.0
Flow Path Slope (vft/hft)	0.005
50-yr Rainfall Depth (in)	2.6
Percent Impervious	0.01
Soil Type	134
Design Storm Frequency	25-yr
Fire Factor	0.34
LID	False

Output Results

Modeled (25-yr) Rainfall Depth (in)	2.2828
Peak Intensity (in/hr)	0.5867
Undeveloped Runoff Coefficient (Cu)	0.1
Developed Runoff Coefficient (Cd)	0.108
Time of Concentration (min)	30.0
Clear Peak Flow Rate (cfs)	1.4378
Burned Peak Flow Rate (cfs)	2.5892
24-Hr Clear Runoff Volume (ac-ft)	0.4623
24-Hr Clear Runoff Volume (cu-ft)	20138.8006



Peak Flow Hydrologic Analysis

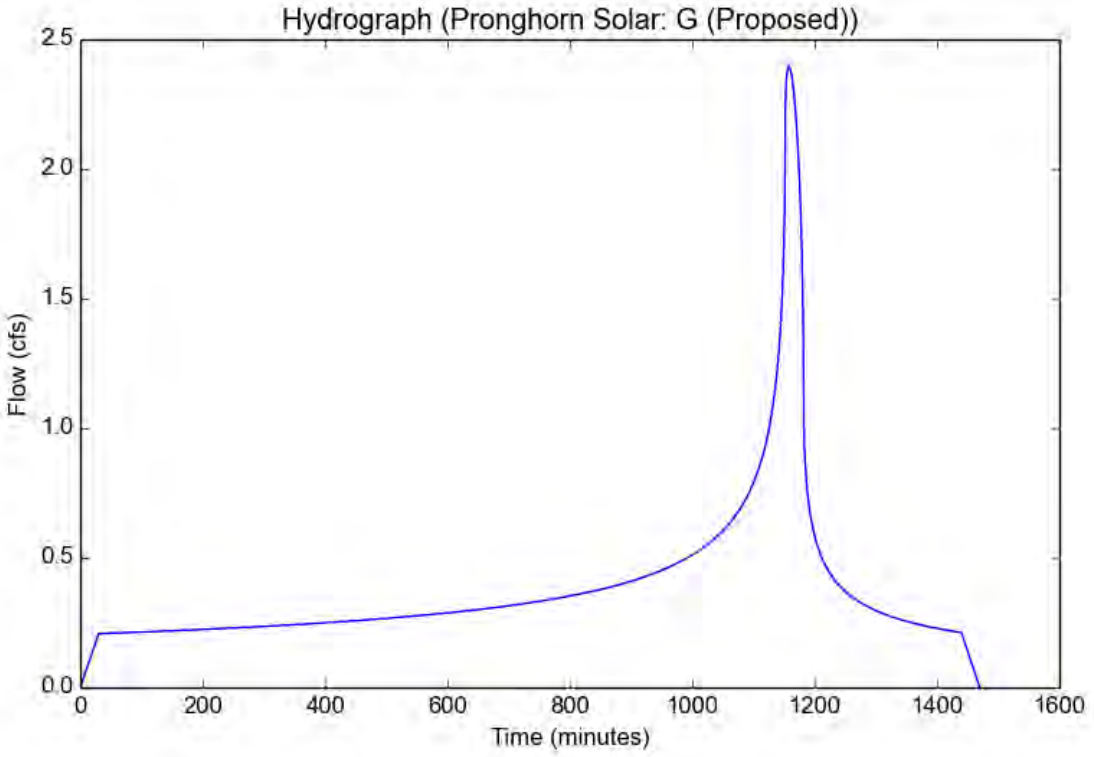
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Version: HydroCalc 1.0.3

Input Parameters

Project Name	Pronghorn Solar
Subarea ID	G (Proposed)
Area (ac)	22.69
Flow Path Length (ft)	1400.0
Flow Path Slope (vft/hft)	0.005
50-yr Rainfall Depth (in)	2.6
Percent Impervious	0.1
Soil Type	134
Design Storm Frequency	25-yr
Fire Factor	0.34
LID	False

Output Results

Modeled (25-yr) Rainfall Depth (in)	2.2828
Peak Intensity (in/hr)	0.5867
Undeveloped Runoff Coefficient (Cu)	0.1
Developed Runoff Coefficient (Cd)	0.18
Time of Concentration (min)	30.0
Clear Peak Flow Rate (cfs)	2.3963
Burned Peak Flow Rate (cfs)	3.4548
24-Hr Clear Runoff Volume (ac-ft)	0.7705
24-Hr Clear Runoff Volume (cu-ft)	33564.6677



Peak Flow Hydrologic Analysis

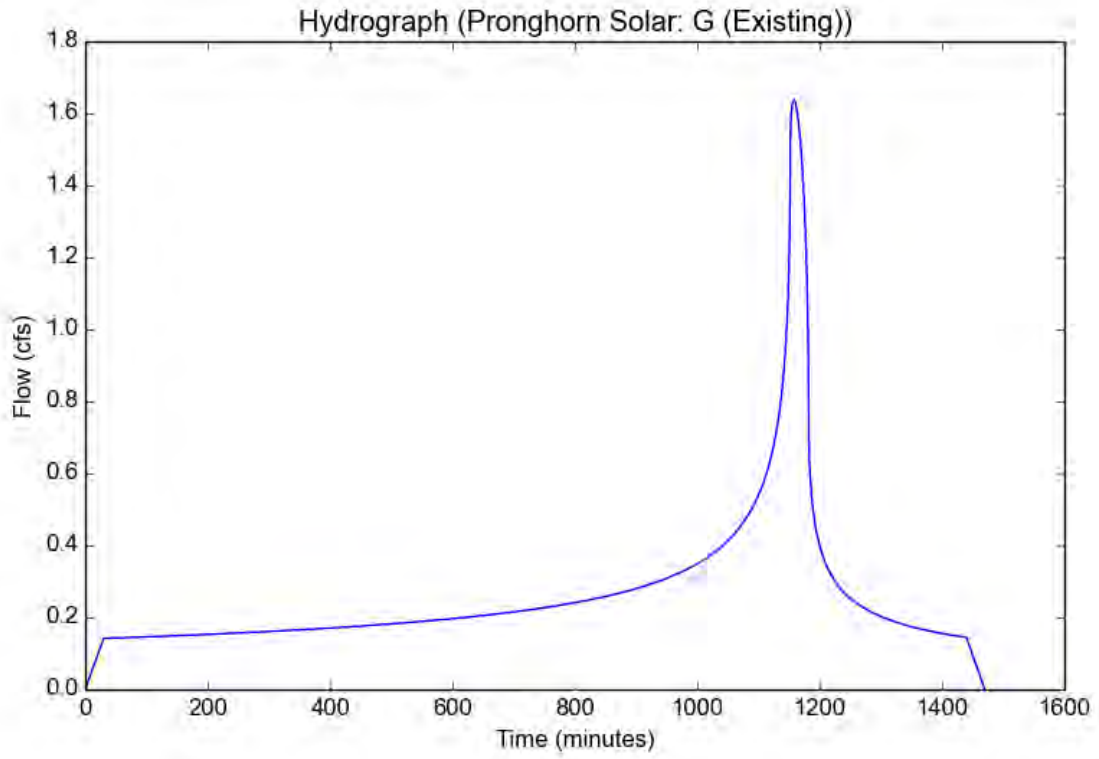
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Version: HydroCalc 1.0.3

Input Parameters

Project Name	Pronghorn Solar
Subarea ID	G (Existing)
Area (ac)	22.69
Flow Path Length (ft)	1400.0
Flow Path Slope (vft/hft)	0.005
50-yr Rainfall Depth (in)	2.6
Percent Impervious	0.01
Soil Type	134
Design Storm Frequency	50-yr
Fire Factor	0.34
LID	False

Output Results

Modeled (50-yr) Rainfall Depth (in)	2.6
Peak Intensity (in/hr)	0.6683
Undeveloped Runoff Coefficient (Cu)	0.1
Developed Runoff Coefficient (Cd)	0.108
Time of Concentration (min)	30.0
Clear Peak Flow Rate (cfs)	1.6376
Burned Peak Flow Rate (cfs)	2.9923
24-Hr Clear Runoff Volume (ac-ft)	0.5266
24-Hr Clear Runoff Volume (cu-ft)	22937.1305



Peak Flow Hydrologic Analysis

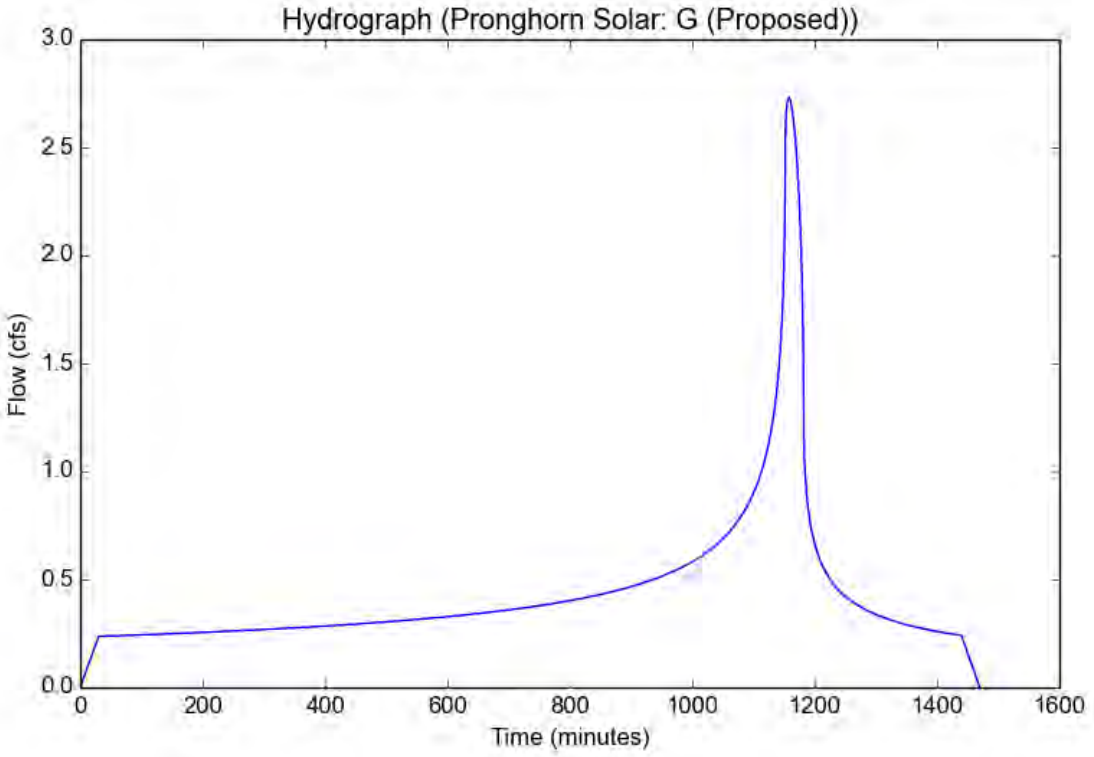
File location: X:/2024/24030/DRAINAGE/SWQDV SHEETS/20250905/24030_Pronghorn Solar - G 50YR PROP.pdf
Version: HydroCalc 1.0.3

Input Parameters

Project Name	Pronghorn Solar
Subarea ID	G (Proposed)
Area (ac)	22.69
Flow Path Length (ft)	1400.0
Flow Path Slope (vft/hft)	0.005
50-yr Rainfall Depth (in)	2.6
Percent Impervious	0.1
Soil Type	134
Design Storm Frequency	50-yr
Fire Factor	0.34
LID	False

Output Results

Modeled (50-yr) Rainfall Depth (in)	2.6
Peak Intensity (in/hr)	0.6683
Undeveloped Runoff Coefficient (Cu)	0.1
Developed Runoff Coefficient (Cd)	0.18
Time of Concentration (min)	30.0
Clear Peak Flow Rate (cfs)	2.7293
Burned Peak Flow Rate (cfs)	3.9746
24-Hr Clear Runoff Volume (ac-ft)	0.8776
24-Hr Clear Runoff Volume (cu-ft)	38228.5509



Peak Flow Hydrologic Analysis

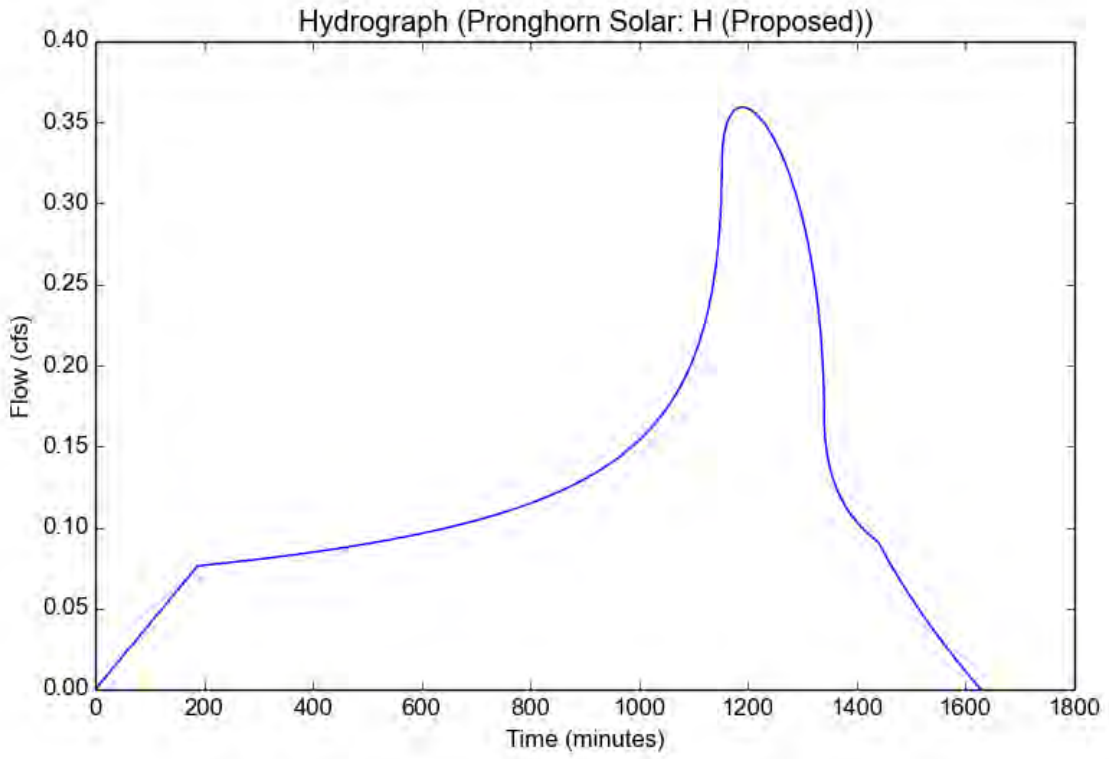
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Version: HydroCalc 1.0.3

Input Parameters

Project Name	Pronghorn Solar
Subarea ID	H (Proposed)
Area (ac)	24.54
Flow Path Length (ft)	1400.0
Flow Path Slope (vft/hft)	0.005
0.75-inch Rainfall Depth (in)	0.75
Percent Impervious	0.1
Soil Type	134
Design Storm Frequency	0.75 inch storm
Fire Factor	0.34
LID	True

Output Results

Modeled (0.75 inch storm) Rainfall Depth (in)	0.75
Peak Intensity (in/hr)	0.0814
Undeveloped Runoff Coefficient (Cu)	0.1
Developed Runoff Coefficient (Cd)	0.18
Time of Concentration (min)	188.0
Clear Peak Flow Rate (cfs)	0.3594
Burned Peak Flow Rate (cfs)	0.4293
24-Hr Clear Runoff Volume (ac-ft)	0.2739
24-Hr Clear Runoff Volume (cu-ft)	11932.4351



Peak Flow Hydrologic Analysis

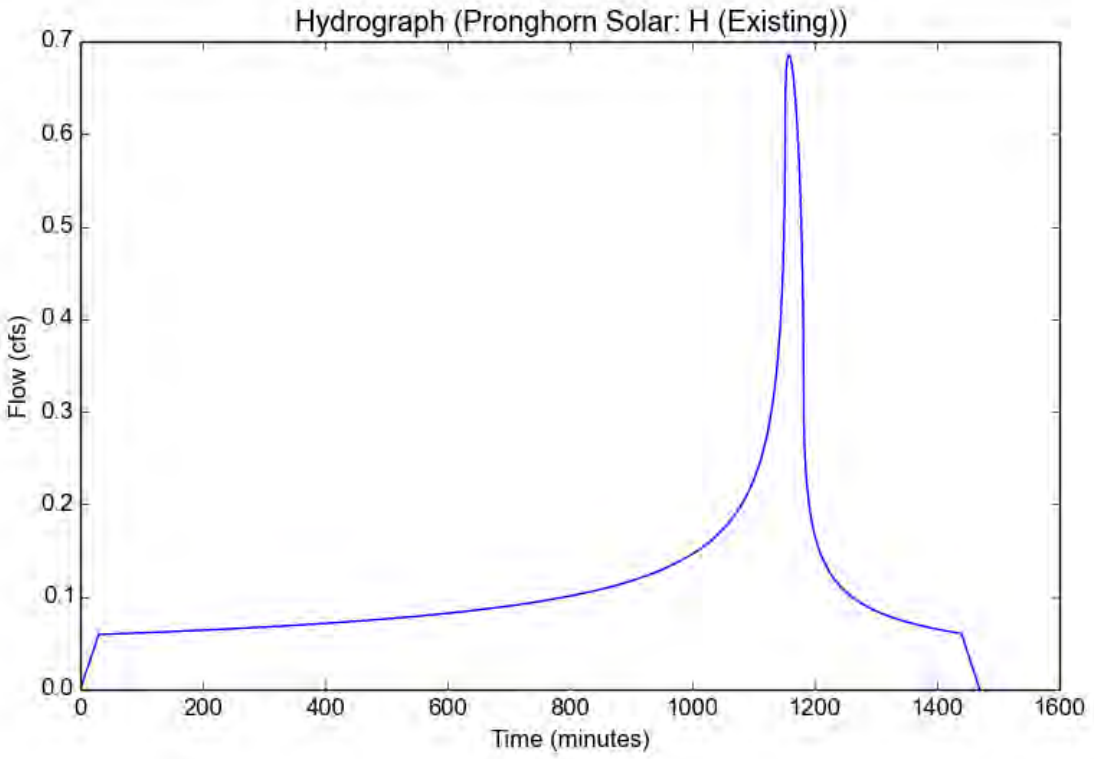
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Version: HydroCalc 1.0.3

Input Parameters

Project Name	Pronghorn Solar
Subarea ID	H (Existing)
Area (ac)	24.54
Flow Path Length (ft)	1400.0
Flow Path Slope (vft/hft)	0.005
50-yr Rainfall Depth (in)	2.6
Percent Impervious	0.01
Soil Type	134
Design Storm Frequency	2-yr
Fire Factor	0.34
LID	False

Output Results

Modeled (2-yr) Rainfall Depth (in)	1.0062
Peak Intensity (in/hr)	0.2586
Undeveloped Runoff Coefficient (Cu)	0.1
Developed Runoff Coefficient (Cd)	0.108
Time of Concentration (min)	30.0
Clear Peak Flow Rate (cfs)	0.6854
Burned Peak Flow Rate (cfs)	1.1144
24-Hr Clear Runoff Volume (ac-ft)	0.2204
24-Hr Clear Runoff Volume (cu-ft)	9600.4174



Peak Flow Hydrologic Analysis

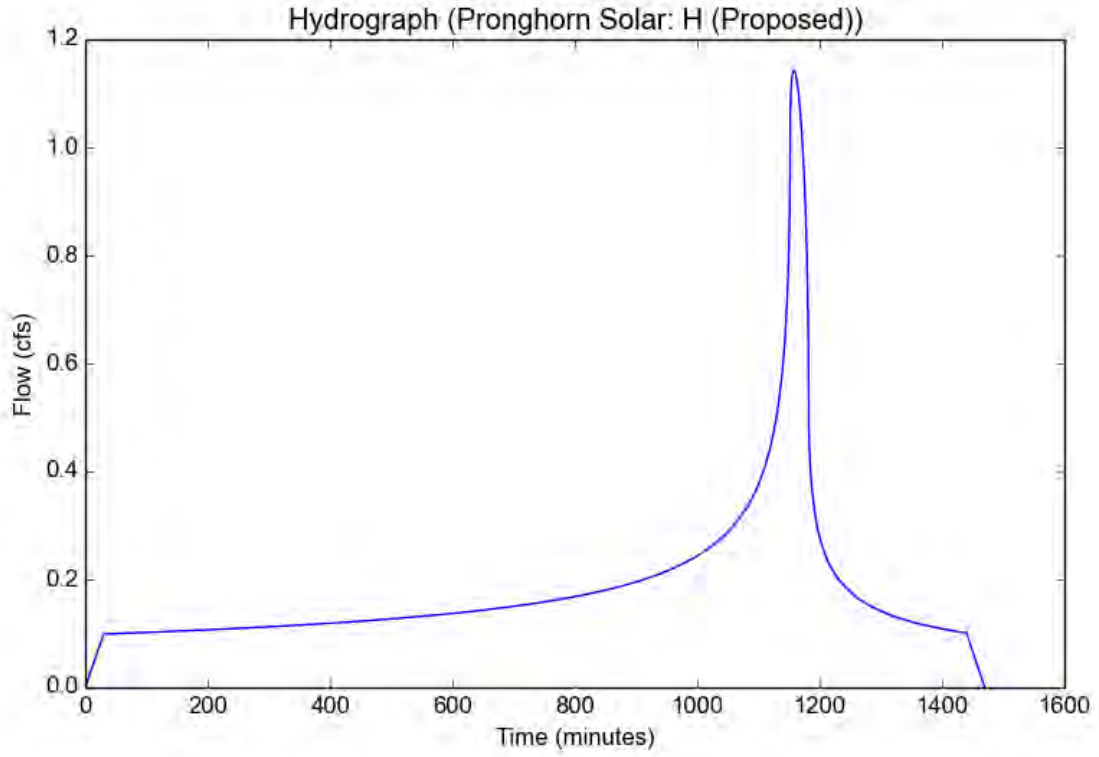
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Version: HydroCalc 1.0.3

Input Parameters

Project Name	Pronghorn Solar
Subarea ID	H (Proposed)
Area (ac)	24.54
Flow Path Length (ft)	1400.0
Flow Path Slope (vft/hft)	0.005
50-yr Rainfall Depth (in)	2.6
Percent Impervious	0.1
Soil Type	134
Design Storm Frequency	2-yr
Fire Factor	0.34
LID	False

Output Results

Modeled (2-yr) Rainfall Depth (in)	1.0062
Peak Intensity (in/hr)	0.2586
Undeveloped Runoff Coefficient (Cu)	0.1
Developed Runoff Coefficient (Cd)	0.18
Time of Concentration (min)	30.0
Clear Peak Flow Rate (cfs)	1.1424
Burned Peak Flow Rate (cfs)	1.5367
24-Hr Clear Runoff Volume (ac-ft)	0.3673
24-Hr Clear Runoff Volume (cu-ft)	16000.6956



Peak Flow Hydrologic Analysis

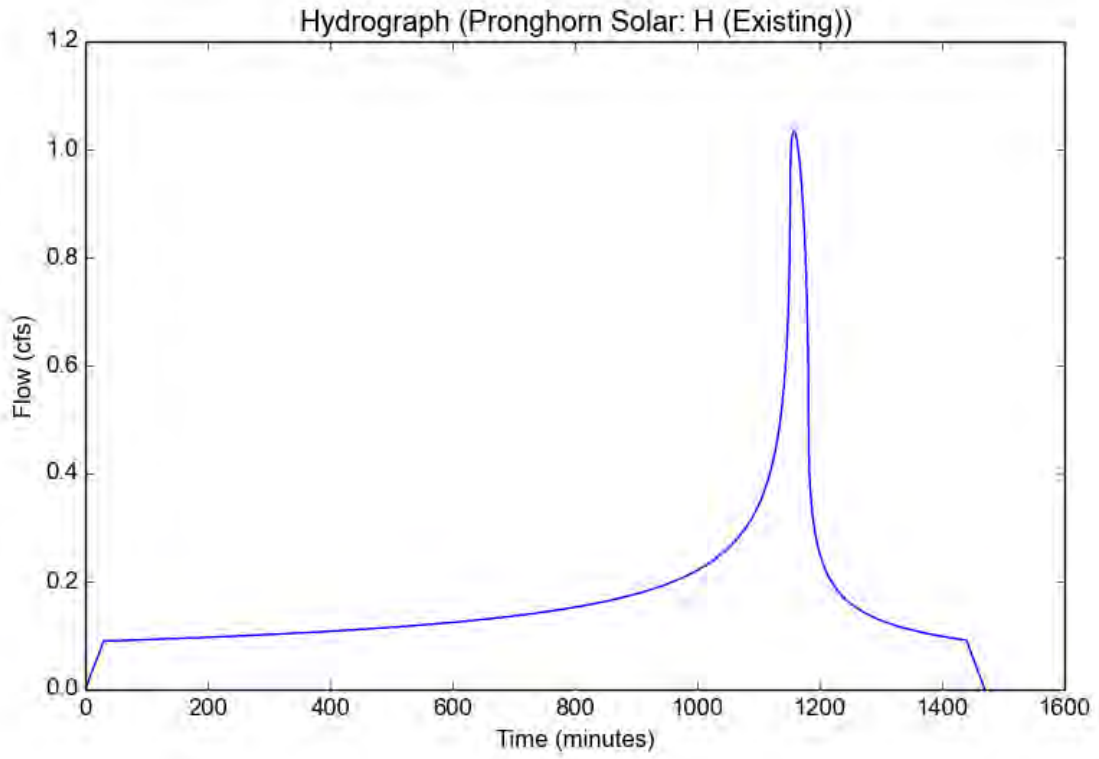
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Version: HydroCalc 1.0.3

Input Parameters

Project Name	Pronghorn Solar
Subarea ID	H (Existing)
Area (ac)	24.54
Flow Path Length (ft)	1400.0
Flow Path Slope (vft/hft)	0.005
50-yr Rainfall Depth (in)	2.6
Percent Impervious	0.01
Soil Type	134
Design Storm Frequency	5-yr
Fire Factor	0.34
LID	False

Output Results

Modeled (5-yr) Rainfall Depth (in)	1.5184
Peak Intensity (in/hr)	0.3903
Undeveloped Runoff Coefficient (Cu)	0.1
Developed Runoff Coefficient (Cd)	0.108
Time of Concentration (min)	30.0
Clear Peak Flow Rate (cfs)	1.0343
Burned Peak Flow Rate (cfs)	1.7744
24-Hr Clear Runoff Volume (ac-ft)	0.3326
24-Hr Clear Runoff Volume (cu-ft)	14487.4515



Peak Flow Hydrologic Analysis

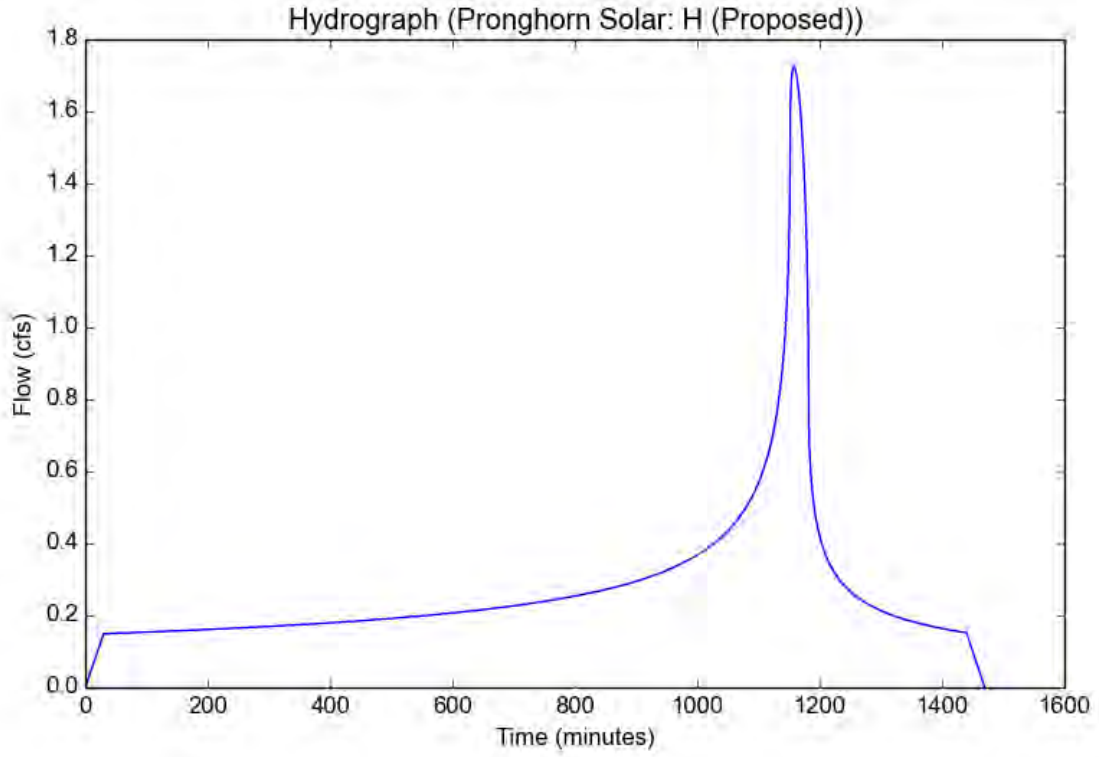
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Version: HydroCalc 1.0.3

Input Parameters

Project Name	Pronghorn Solar
Subarea ID	H (Proposed)
Area (ac)	24.54
Flow Path Length (ft)	1400.0
Flow Path Slope (vft/hft)	0.005
50-yr Rainfall Depth (in)	2.6
Percent Impervious	0.1
Soil Type	134
Design Storm Frequency	5-yr
Fire Factor	0.34
LID	False

Output Results

Modeled (5-yr) Rainfall Depth (in)	1.5184
Peak Intensity (in/hr)	0.3903
Undeveloped Runoff Coefficient (Cu)	0.1
Developed Runoff Coefficient (Cd)	0.18
Time of Concentration (min)	30.0
Clear Peak Flow Rate (cfs)	1.7239
Burned Peak Flow Rate (cfs)	2.4042
24-Hr Clear Runoff Volume (ac-ft)	0.5543
24-Hr Clear Runoff Volume (cu-ft)	24145.7526



Peak Flow Hydrologic Analysis

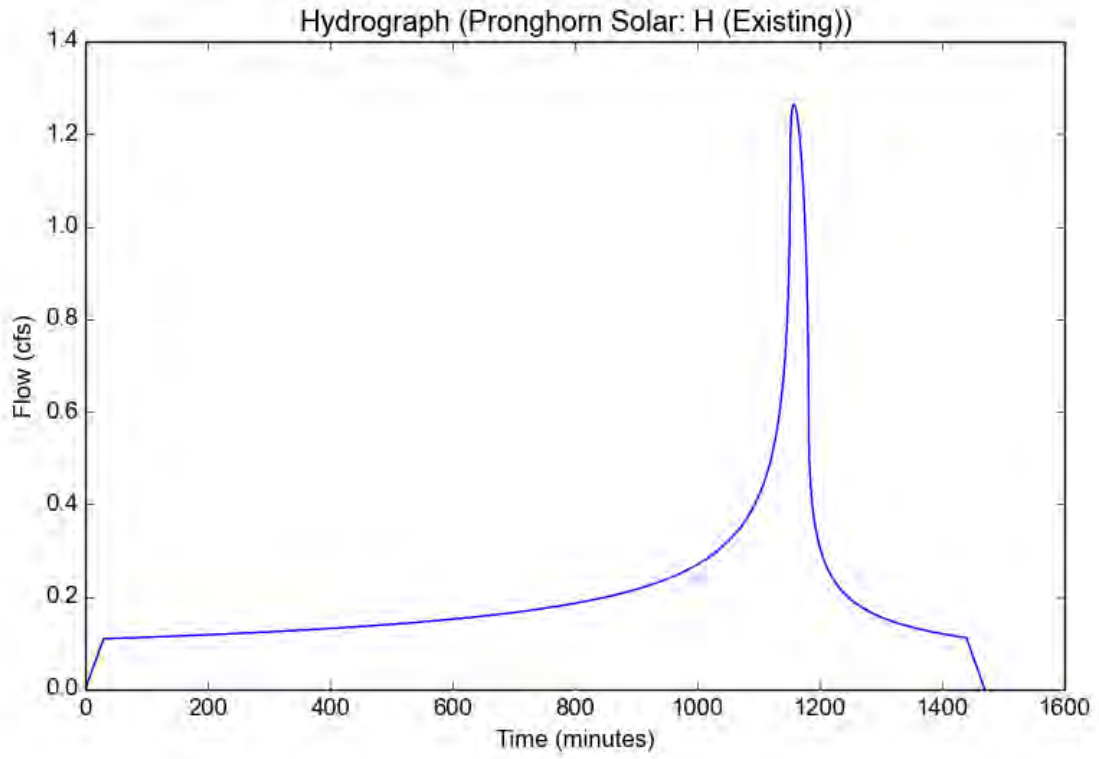
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Version: HydroCalc 1.0.3

Input Parameters

Project Name	Pronghorn Solar
Subarea ID	H (Existing)
Area (ac)	24.54
Flow Path Length (ft)	1400.0
Flow Path Slope (vft/hft)	0.005
50-yr Rainfall Depth (in)	2.6
Percent Impervious	0.01
Soil Type	134
Design Storm Frequency	10-yr
Fire Factor	0.34
LID	False

Output Results

Modeled (10-yr) Rainfall Depth (in)	1.8564
Peak Intensity (in/hr)	0.4771
Undeveloped Runoff Coefficient (Cu)	0.1
Developed Runoff Coefficient (Cd)	0.108
Time of Concentration (min)	30.0
Clear Peak Flow Rate (cfs)	1.2646
Burned Peak Flow Rate (cfs)	2.2231
24-Hr Clear Runoff Volume (ac-ft)	0.4066
24-Hr Clear Runoff Volume (cu-ft)	17712.3979



Peak Flow Hydrologic Analysis

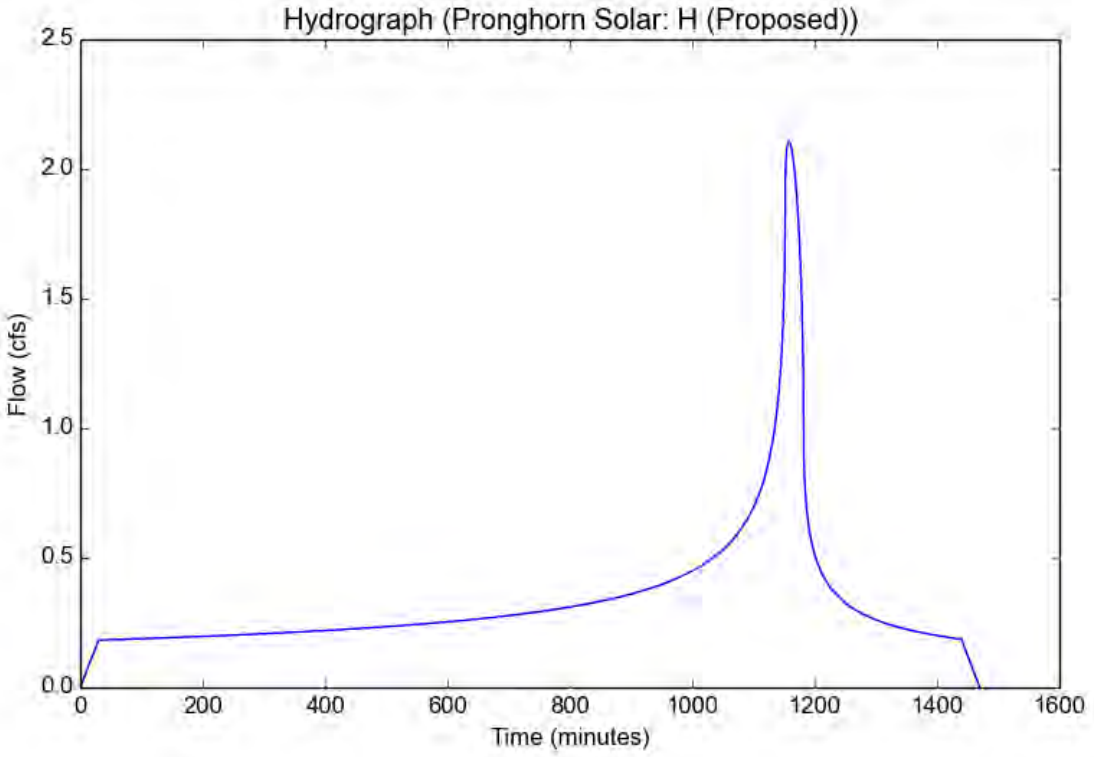
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Version: HydroCalc 1.0.3

Input Parameters

Project Name	Pronghorn Solar
Subarea ID	H (Proposed)
Area (ac)	24.54
Flow Path Length (ft)	1400.0
Flow Path Slope (vft/hft)	0.005
50-yr Rainfall Depth (in)	2.6
Percent Impervious	0.1
Soil Type	134
Design Storm Frequency	10-yr
Fire Factor	0.34
LID	False

Output Results

Modeled (10-yr) Rainfall Depth (in)	1.8564
Peak Intensity (in/hr)	0.4771
Undeveloped Runoff Coefficient (Cu)	0.1
Developed Runoff Coefficient (Cd)	0.18
Time of Concentration (min)	30.0
Clear Peak Flow Rate (cfs)	2.1076
Burned Peak Flow Rate (cfs)	2.9888
24-Hr Clear Runoff Volume (ac-ft)	0.6777
24-Hr Clear Runoff Volume (cu-ft)	29520.6632



Peak Flow Hydrologic Analysis

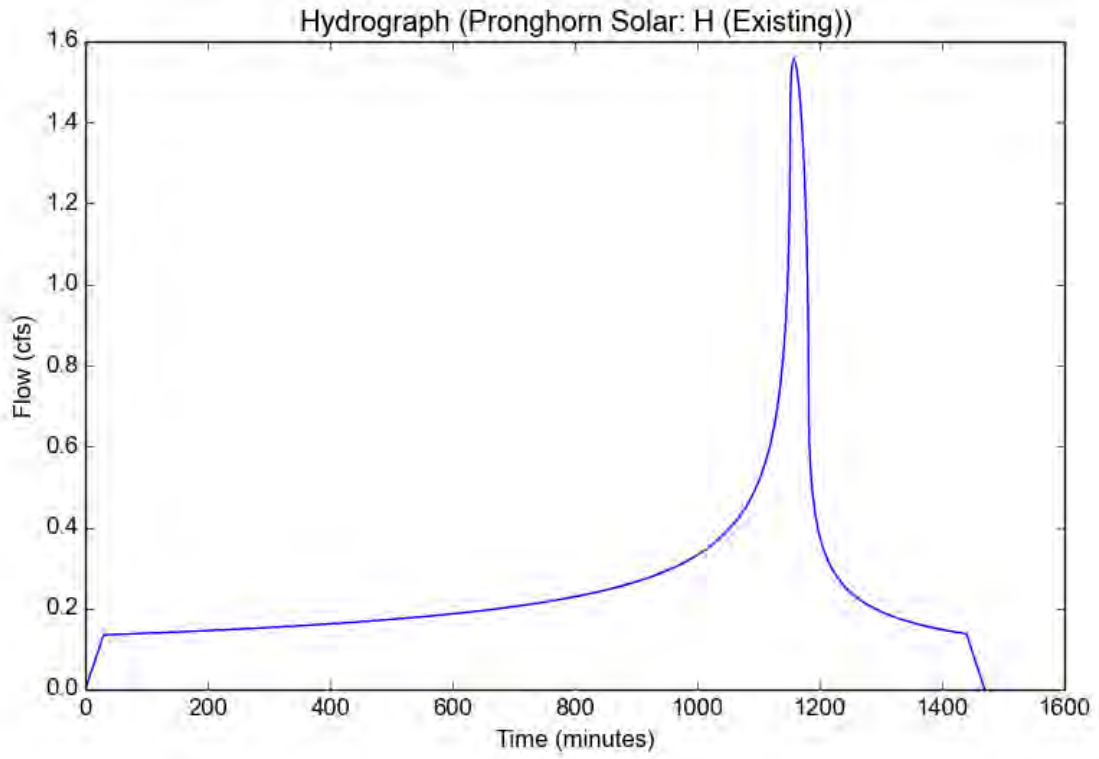
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Version: HydroCalc 1.0.3

Input Parameters

Project Name	Pronghorn Solar
Subarea ID	H (Existing)
Area (ac)	24.54
Flow Path Length (ft)	1400.0
Flow Path Slope (vft/hft)	0.005
50-yr Rainfall Depth (in)	2.6
Percent Impervious	0.01
Soil Type	134
Design Storm Frequency	25-yr
Fire Factor	0.34
LID	False

Output Results

Modeled (25-yr) Rainfall Depth (in)	2.2828
Peak Intensity (in/hr)	0.5867
Undeveloped Runoff Coefficient (Cu)	0.1
Developed Runoff Coefficient (Cd)	0.108
Time of Concentration (min)	30.0
Clear Peak Flow Rate (cfs)	1.555
Burned Peak Flow Rate (cfs)	2.8003
24-Hr Clear Runoff Volume (ac-ft)	0.5
24-Hr Clear Runoff Volume (cu-ft)	21780.7919



Peak Flow Hydrologic Analysis

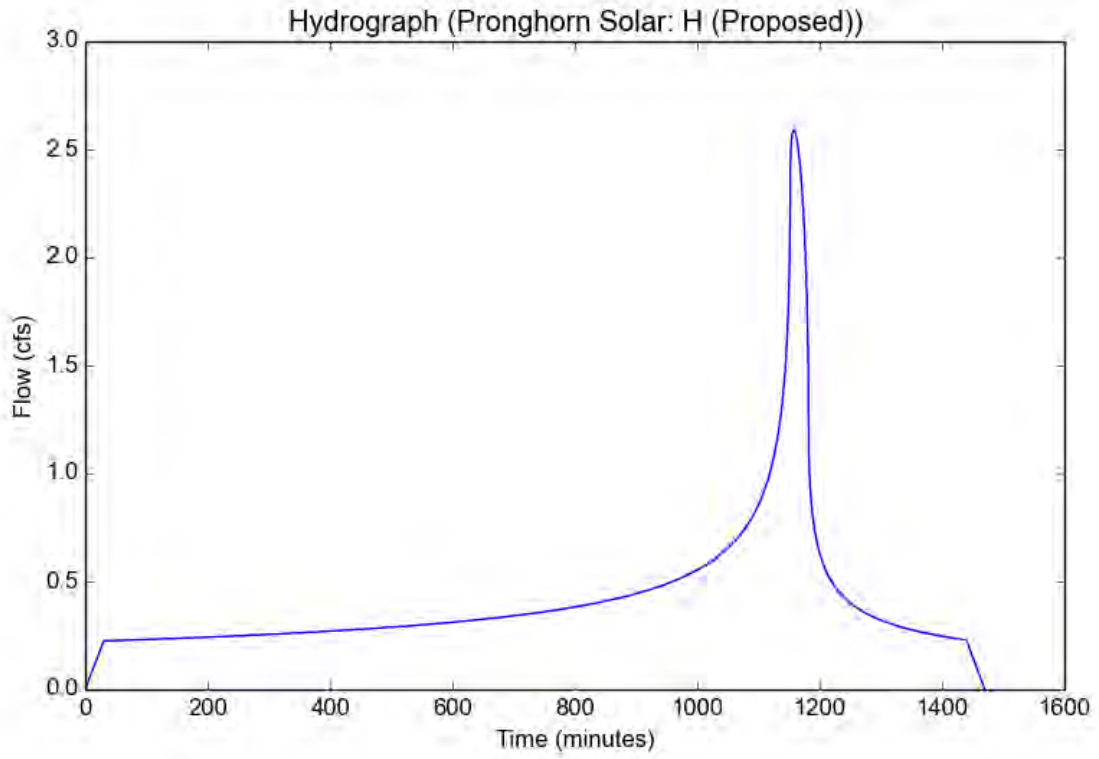
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Version: HydroCalc 1.0.3

Input Parameters

Project Name	Pronghorn Solar
Subarea ID	H (Proposed)
Area (ac)	24.54
Flow Path Length (ft)	1400.0
Flow Path Slope (vft/hft)	0.005
50-yr Rainfall Depth (in)	2.6
Percent Impervious	0.1
Soil Type	134
Design Storm Frequency	25-yr
Fire Factor	0.34
LID	False

Output Results

Modeled (25-yr) Rainfall Depth (in)	2.2828
Peak Intensity (in/hr)	0.5867
Undeveloped Runoff Coefficient (Cu)	0.1
Developed Runoff Coefficient (Cd)	0.18
Time of Concentration (min)	30.0
Clear Peak Flow Rate (cfs)	2.5917
Burned Peak Flow Rate (cfs)	3.7364
24-Hr Clear Runoff Volume (ac-ft)	0.8334
24-Hr Clear Runoff Volume (cu-ft)	36301.3198



Peak Flow Hydrologic Analysis

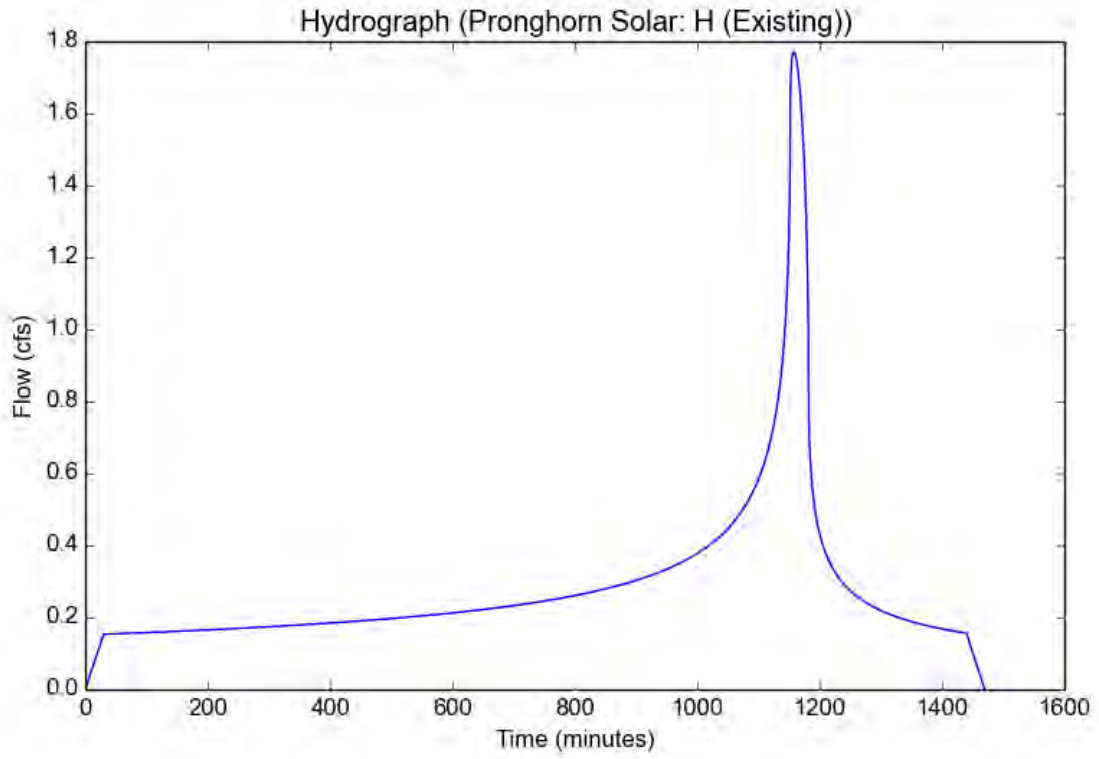
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Version: HydroCalc 1.0.3

Input Parameters

Project Name	Pronghorn Solar
Subarea ID	H (Existing)
Area (ac)	24.54
Flow Path Length (ft)	1400.0
Flow Path Slope (vft/hft)	0.005
50-yr Rainfall Depth (in)	2.6
Percent Impervious	0.01
Soil Type	134
Design Storm Frequency	50-yr
Fire Factor	0.34
LID	False

Output Results

Modeled (50-yr) Rainfall Depth (in)	2.6
Peak Intensity (in/hr)	0.6683
Undeveloped Runoff Coefficient (Cu)	0.1
Developed Runoff Coefficient (Cd)	0.108
Time of Concentration (min)	30.0
Clear Peak Flow Rate (cfs)	1.7711
Burned Peak Flow Rate (cfs)	3.2362
24-Hr Clear Runoff Volume (ac-ft)	0.5695
24-Hr Clear Runoff Volume (cu-ft)	24807.28



Peak Flow Hydrologic Analysis

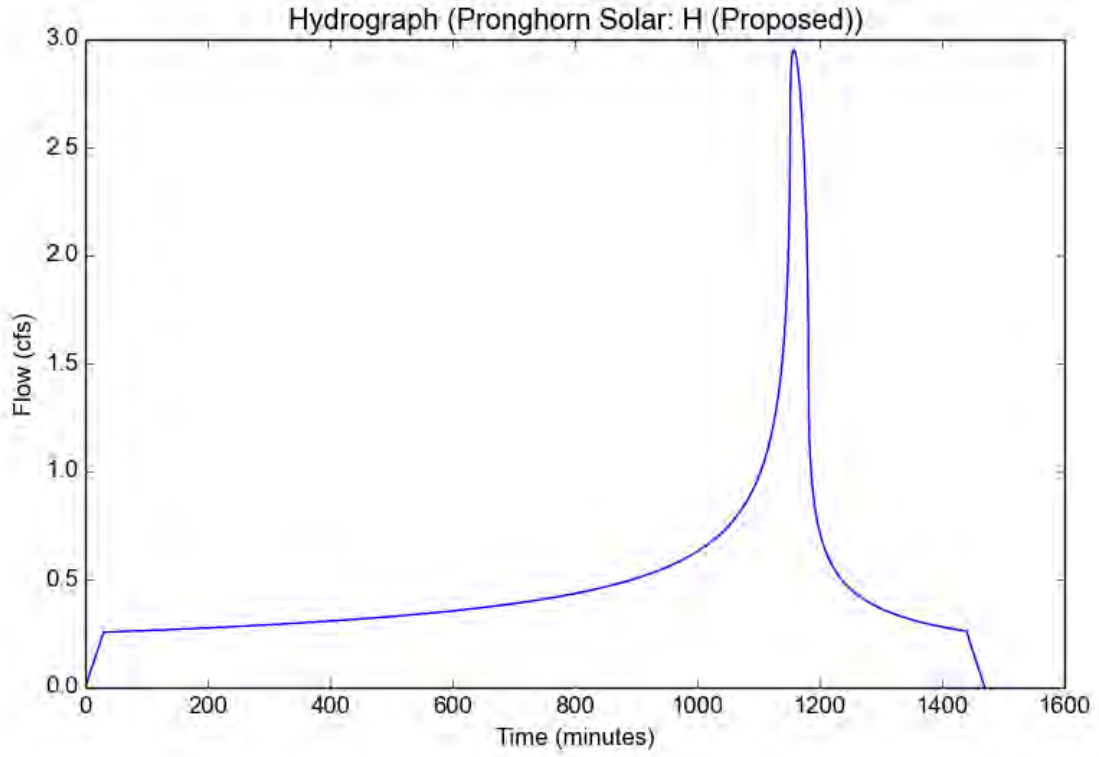
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Version: HydroCalc 1.0.3

Input Parameters

Project Name	Pronghorn Solar
Subarea ID	H (Proposed)
Area (ac)	24.54
Flow Path Length (ft)	1400.0
Flow Path Slope (vft/hft)	0.005
50-yr Rainfall Depth (in)	2.6
Percent Impervious	0.1
Soil Type	134
Design Storm Frequency	50-yr
Fire Factor	0.34
LID	False

Output Results

Modeled (50-yr) Rainfall Depth (in)	2.6
Peak Intensity (in/hr)	0.6683
Undeveloped Runoff Coefficient (Cu)	0.1
Developed Runoff Coefficient (Cd)	0.18
Time of Concentration (min)	30.0
Clear Peak Flow Rate (cfs)	2.9518
Burned Peak Flow Rate (cfs)	4.2987
24-Hr Clear Runoff Volume (ac-ft)	0.9492
24-Hr Clear Runoff Volume (cu-ft)	41345.4667



Peak Flow Hydrologic Analysis

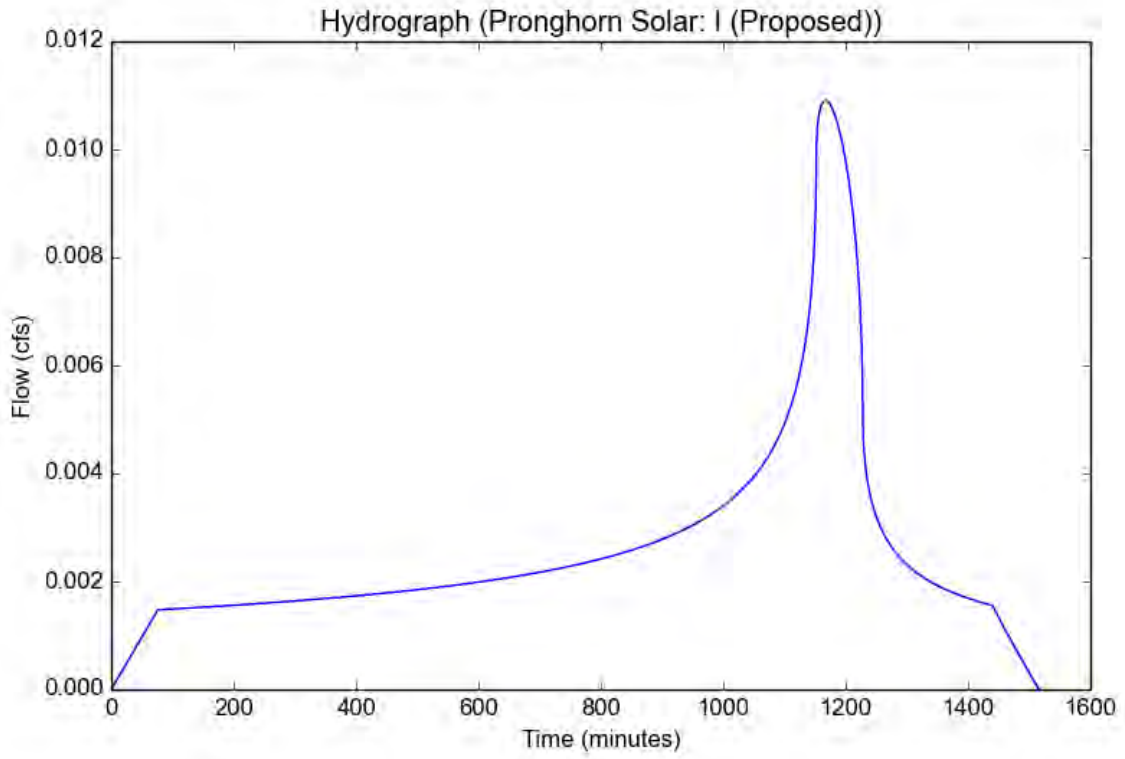
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Version: HydroCalc 1.0.3

Input Parameters

Project Name	Pronghorn Solar
Subarea ID	I (Proposed)
Area (ac)	0.72
Flow Path Length (ft)	257.0
Flow Path Slope (vft/hft)	0.008
0.75-inch Rainfall Depth (in)	0.75
Percent Impervious	0.027
Soil Type	134
Design Storm Frequency	0.75 inch storm
Fire Factor	0.34
LID	True

Output Results

Modeled (0.75 inch storm) Rainfall Depth (in)	0.75
Peak Intensity (in/hr)	0.1245
Undeveloped Runoff Coefficient (Cu)	0.1
Developed Runoff Coefficient (Cd)	0.1216
Time of Concentration (min)	76.0
Clear Peak Flow Rate (cfs)	0.0109
Burned Peak Flow Rate (cfs)	0.0153
24-Hr Clear Runoff Volume (ac-ft)	0.0054
24-Hr Clear Runoff Volume (cu-ft)	236.4084



Peak Flow Hydrologic Analysis

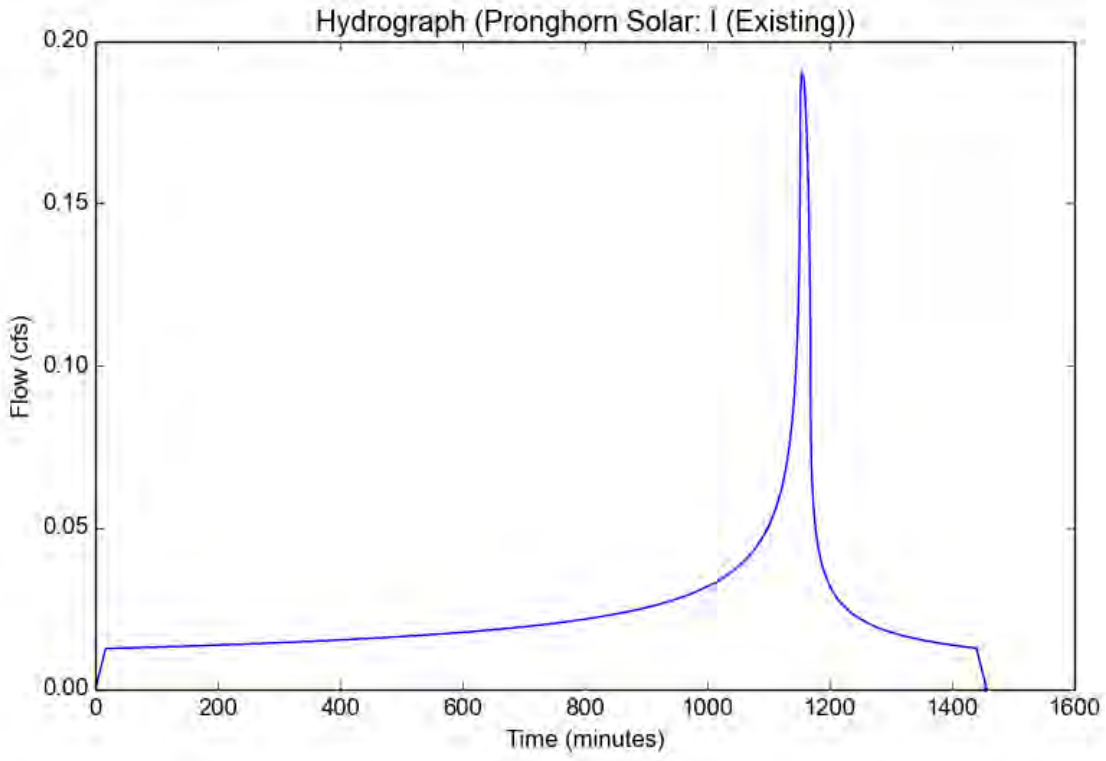
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Version: HydroCalc 1.0.3

Input Parameters

Project Name	Pronghorn Solar
Subarea ID	I (Existing)
Area (ac)	0.72
Flow Path Length (ft)	257.0
Flow Path Slope (vft/hft)	0.008
50-yr Rainfall Depth (in)	2.6
Percent Impervious	0.8553
Soil Type	134
Design Storm Frequency	2-yr
Fire Factor	0.34
LID	False

Output Results

Modeled (2-yr) Rainfall Depth (in)	1.0062
Peak Intensity (in/hr)	0.3377
Undeveloped Runoff Coefficient (Cu)	0.1
Developed Runoff Coefficient (Cd)	0.7842
Time of Concentration (min)	17.0
Clear Peak Flow Rate (cfs)	0.1907
Burned Peak Flow Rate (cfs)	0.1951
24-Hr Clear Runoff Volume (ac-ft)	0.047
24-Hr Clear Runoff Volume (cu-ft)	2045.3606



Peak Flow Hydrologic Analysis

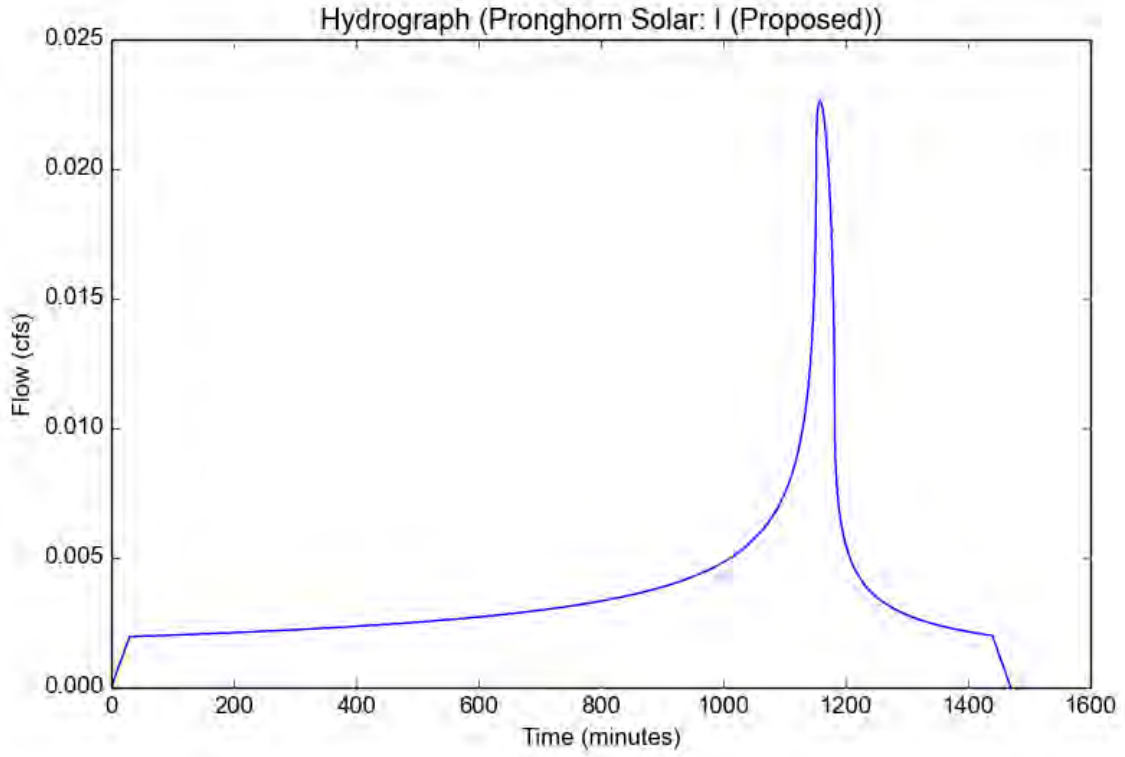
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Version: HydroCalc 1.0.3

Input Parameters

Project Name	Pronghorn Solar
Subarea ID	I (Proposed)
Area (ac)	0.72
Flow Path Length (ft)	257.0
Flow Path Slope (vft/hft)	0.008
50-yr Rainfall Depth (in)	2.6
Percent Impervious	0.027
Soil Type	134
Design Storm Frequency	2-yr
Fire Factor	0.34
LID	False

Output Results

Modeled (2-yr) Rainfall Depth (in)	1.0062
Peak Intensity (in/hr)	0.2586
Undeveloped Runoff Coefficient (Cu)	0.1
Developed Runoff Coefficient (Cd)	0.1216
Time of Concentration (min)	30.0
Clear Peak Flow Rate (cfs)	0.0226
Burned Peak Flow Rate (cfs)	0.035
24-Hr Clear Runoff Volume (ac-ft)	0.0073
24-Hr Clear Runoff Volume (cu-ft)	317.145



Peak Flow Hydrologic Analysis

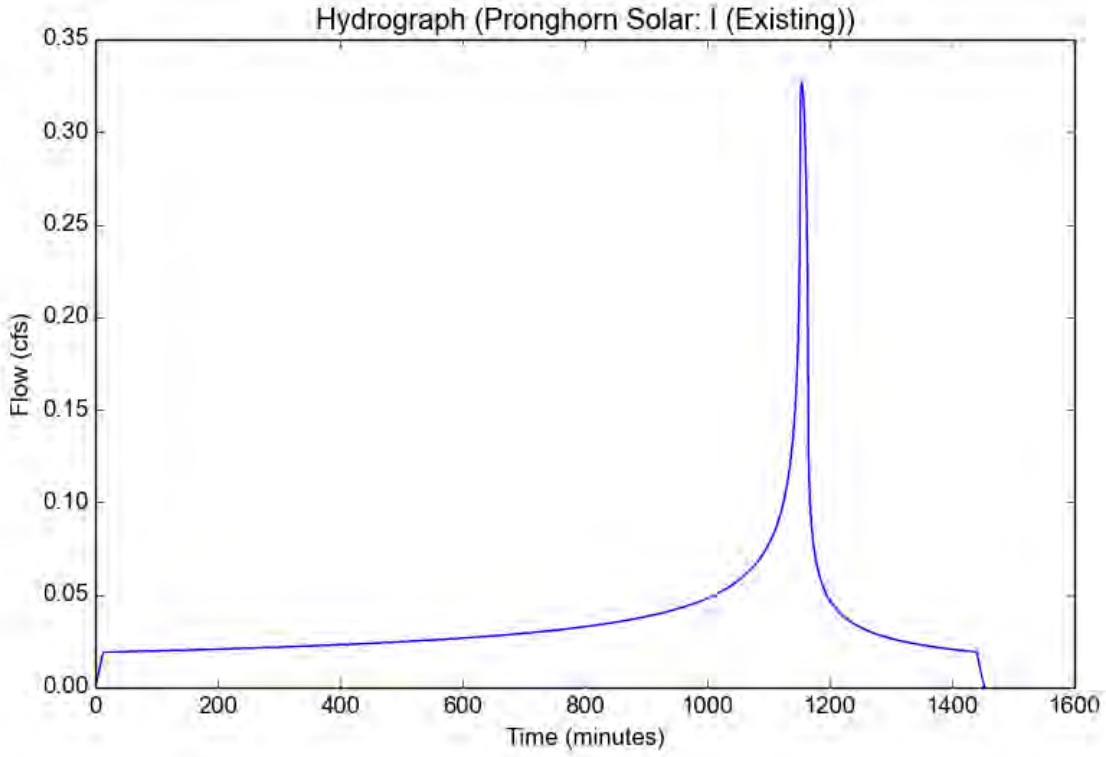
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Version: HydroCalc 1.0.3

Input Parameters

Project Name	Pronghorn Solar
Subarea ID	I (Existing)
Area (ac)	0.72
Flow Path Length (ft)	257.0
Flow Path Slope (vft/hft)	0.008
50-yr Rainfall Depth (in)	2.6
Percent Impervious	0.8553
Soil Type	134
Design Storm Frequency	5-yr
Fire Factor	0.34
LID	False

Output Results

Modeled (5-yr) Rainfall Depth (in)	1.5184
Peak Intensity (in/hr)	0.5782
Undeveloped Runoff Coefficient (Cu)	0.1
Developed Runoff Coefficient (Cd)	0.7842
Time of Concentration (min)	13.0
Clear Peak Flow Rate (cfs)	0.3265
Burned Peak Flow Rate (cfs)	0.3351
24-Hr Clear Runoff Volume (ac-ft)	0.0709
24-Hr Clear Runoff Volume (cu-ft)	3086.5343



Peak Flow Hydrologic Analysis

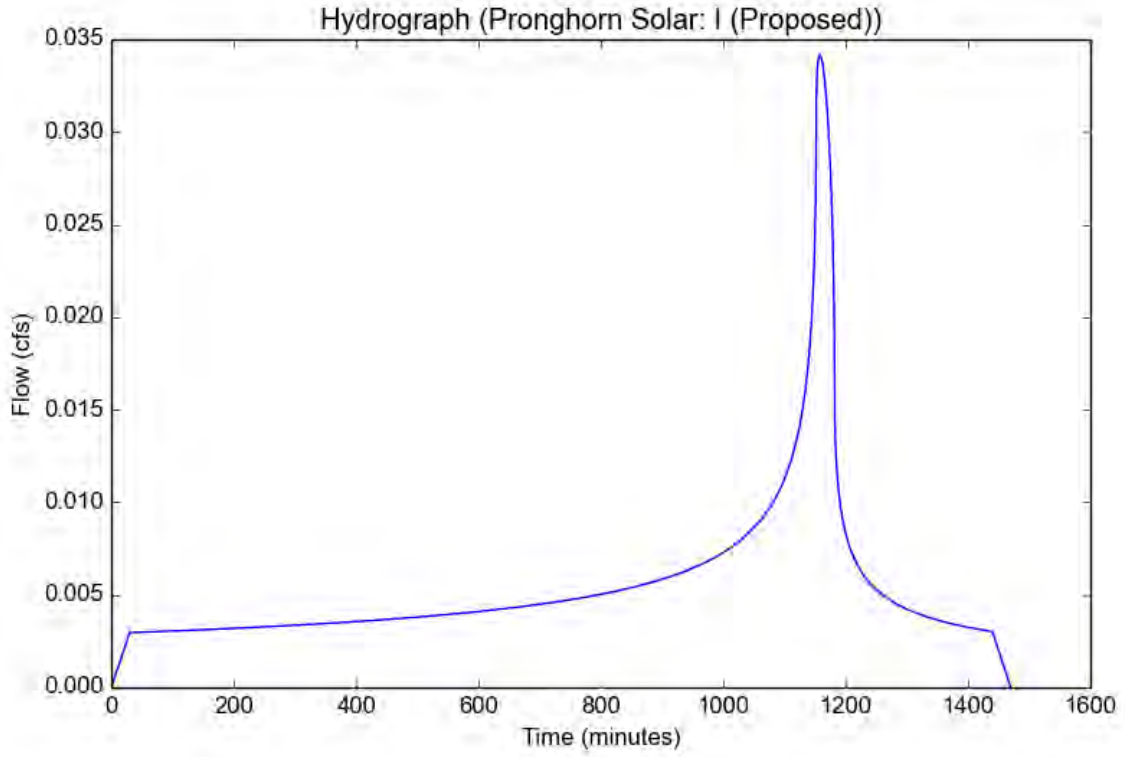
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Version: HydroCalc 1.0.3

Input Parameters

Project Name	Pronghorn Solar
Subarea ID	I (Proposed)
Area (ac)	0.72
Flow Path Length (ft)	257.0
Flow Path Slope (vft/hft)	0.008
50-yr Rainfall Depth (in)	2.6
Percent Impervious	0.027
Soil Type	134
Design Storm Frequency	5-yr
Fire Factor	0.34
LID	False

Output Results

Modeled (5-yr) Rainfall Depth (in)	1.5184
Peak Intensity (in/hr)	0.3903
Undeveloped Runoff Coefficient (Cu)	0.1
Developed Runoff Coefficient (Cd)	0.1216
Time of Concentration (min)	30.0
Clear Peak Flow Rate (cfs)	0.0342
Burned Peak Flow Rate (cfs)	0.0556
24-Hr Clear Runoff Volume (ac-ft)	0.011
24-Hr Clear Runoff Volume (cu-ft)	478.5857



Peak Flow Hydrologic Analysis

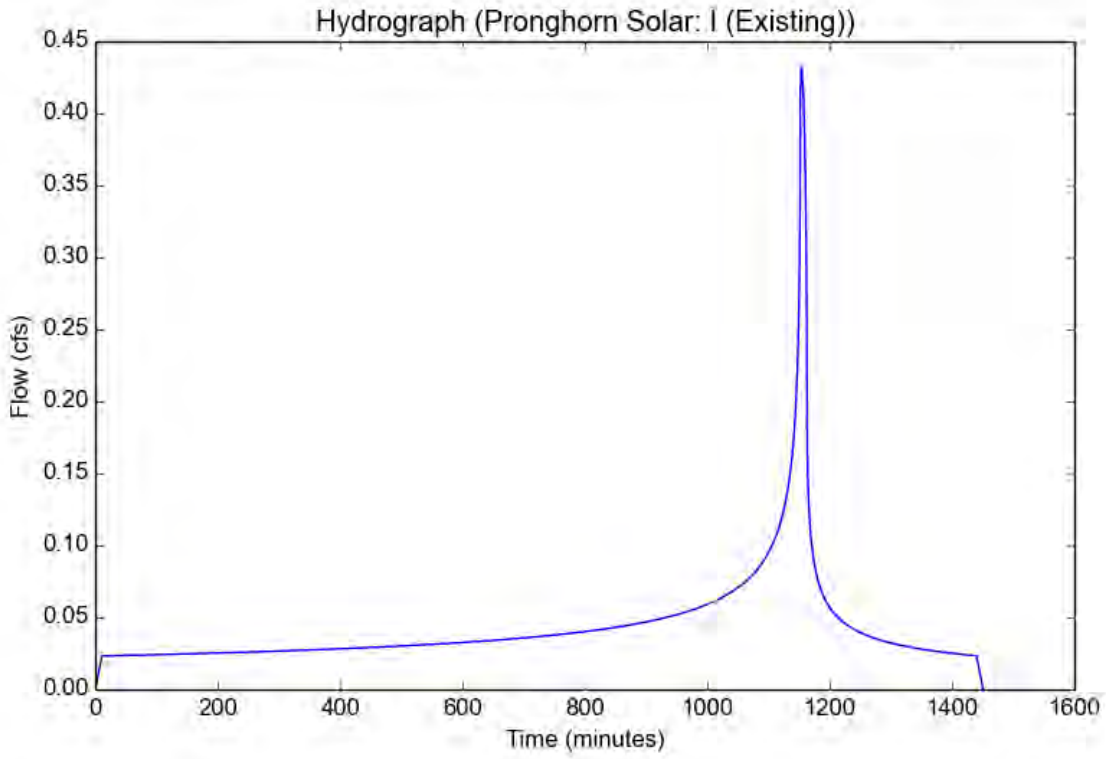
File location: X:/2024/24030/DRAINAGE/SWQDV SHEETS/20250815/24030_Pronghorn Solar - I 10YR EXIST.pdf
Version: HydroCalc 1.0.3

Input Parameters

Project Name	Pronghorn Solar
Subarea ID	I (Existing)
Area (ac)	0.72
Flow Path Length (ft)	257.0
Flow Path Slope (vft/hft)	0.008
50-yr Rainfall Depth (in)	2.6
Percent Impervious	0.8553
Soil Type	134
Design Storm Frequency	10-yr
Fire Factor	0.34
LID	False

Output Results

Modeled (10-yr) Rainfall Depth (in)	1.8564
Peak Intensity (in/hr)	0.7646
Undeveloped Runoff Coefficient (Cu)	0.1
Developed Runoff Coefficient (Cd)	0.7842
Time of Concentration (min)	11.0
Clear Peak Flow Rate (cfs)	0.4317
Burned Peak Flow Rate (cfs)	0.444
24-Hr Clear Runoff Volume (ac-ft)	0.0866
24-Hr Clear Runoff Volume (cu-ft)	3773.603



Peak Flow Hydrologic Analysis

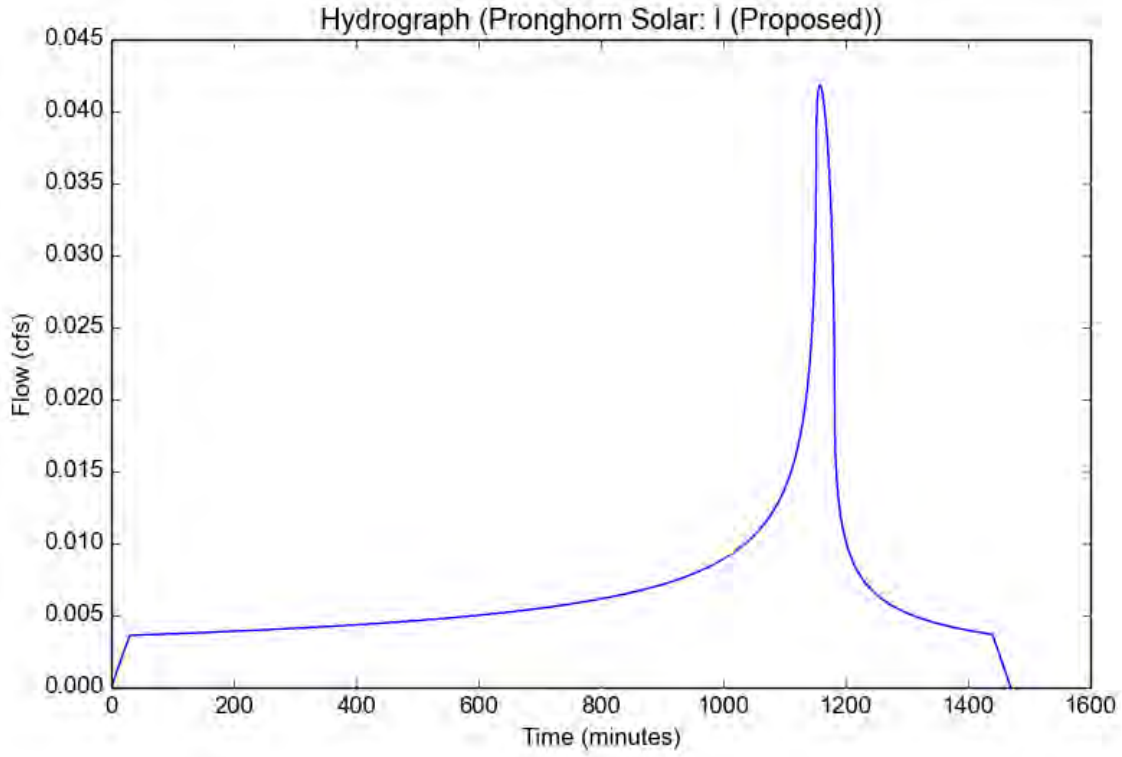
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Version: HydroCalc 1.0.3

Input Parameters

Project Name	Pronghorn Solar
Subarea ID	I (Proposed)
Area (ac)	0.72
Flow Path Length (ft)	257.0
Flow Path Slope (vft/hft)	0.008
50-yr Rainfall Depth (in)	2.6
Percent Impervious	0.027
Soil Type	134
Design Storm Frequency	10-yr
Fire Factor	0.34
LID	False

Output Results

Modeled (10-yr) Rainfall Depth (in)	1.8564
Peak Intensity (in/hr)	0.4771
Undeveloped Runoff Coefficient (Cu)	0.1
Developed Runoff Coefficient (Cd)	0.1216
Time of Concentration (min)	30.0
Clear Peak Flow Rate (cfs)	0.0418
Burned Peak Flow Rate (cfs)	0.0695
24-Hr Clear Runoff Volume (ac-ft)	0.0134
24-Hr Clear Runoff Volume (cu-ft)	585.1202



Peak Flow Hydrologic Analysis

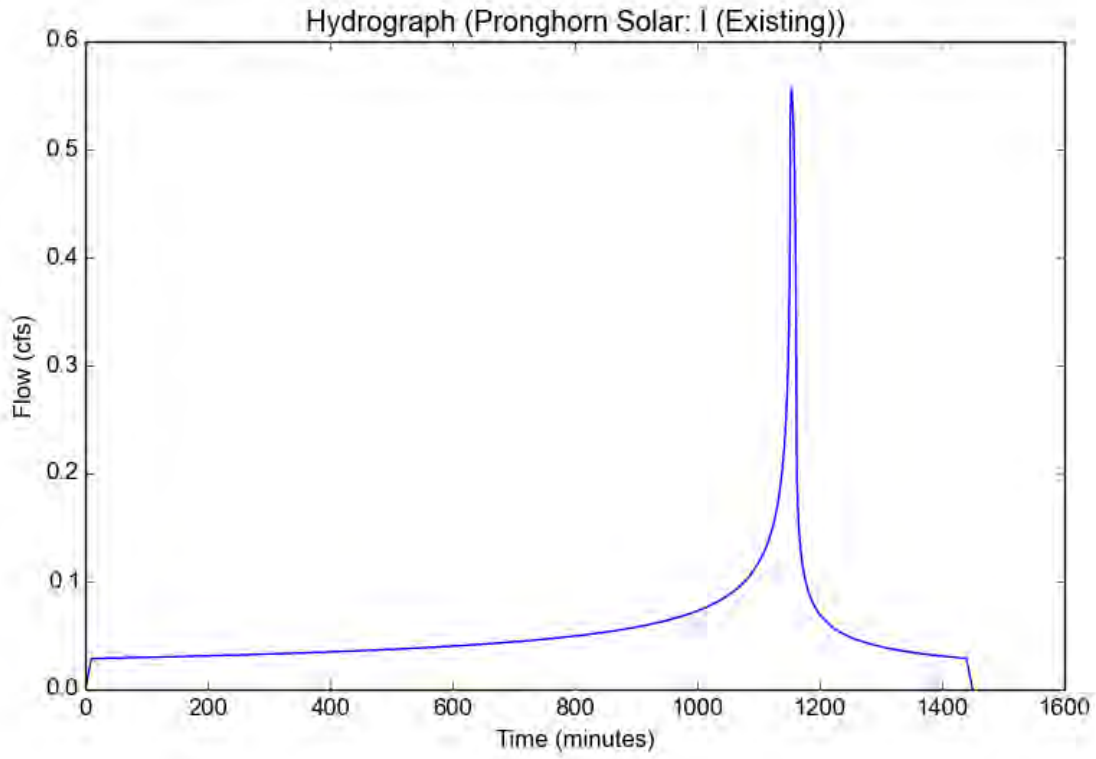
File location: X:/2024/24030/DRAINAGE/SWQDV SHEETS/20250815/24030_Pronghorn Solar - I 25YR EXIST.pdf
Version: HydroCalc 1.0.3

Input Parameters

Project Name	Pronghorn Solar
Subarea ID	I (Existing)
Area (ac)	0.72
Flow Path Length (ft)	257.0
Flow Path Slope (vft/hft)	0.008
50-yr Rainfall Depth (in)	2.6
Percent Impervious	0.8553
Soil Type	134
Design Storm Frequency	25-yr
Fire Factor	0.34
LID	False

Output Results

Modeled (25-yr) Rainfall Depth (in)	2.2828
Peak Intensity (in/hr)	0.9833
Undeveloped Runoff Coefficient (Cu)	0.1
Developed Runoff Coefficient (Cd)	0.7842
Time of Concentration (min)	10.0
Clear Peak Flow Rate (cfs)	0.5552
Burned Peak Flow Rate (cfs)	0.5719
24-Hr Clear Runoff Volume (ac-ft)	0.1065
24-Hr Clear Runoff Volume (cu-ft)	4640.3677



Peak Flow Hydrologic Analysis

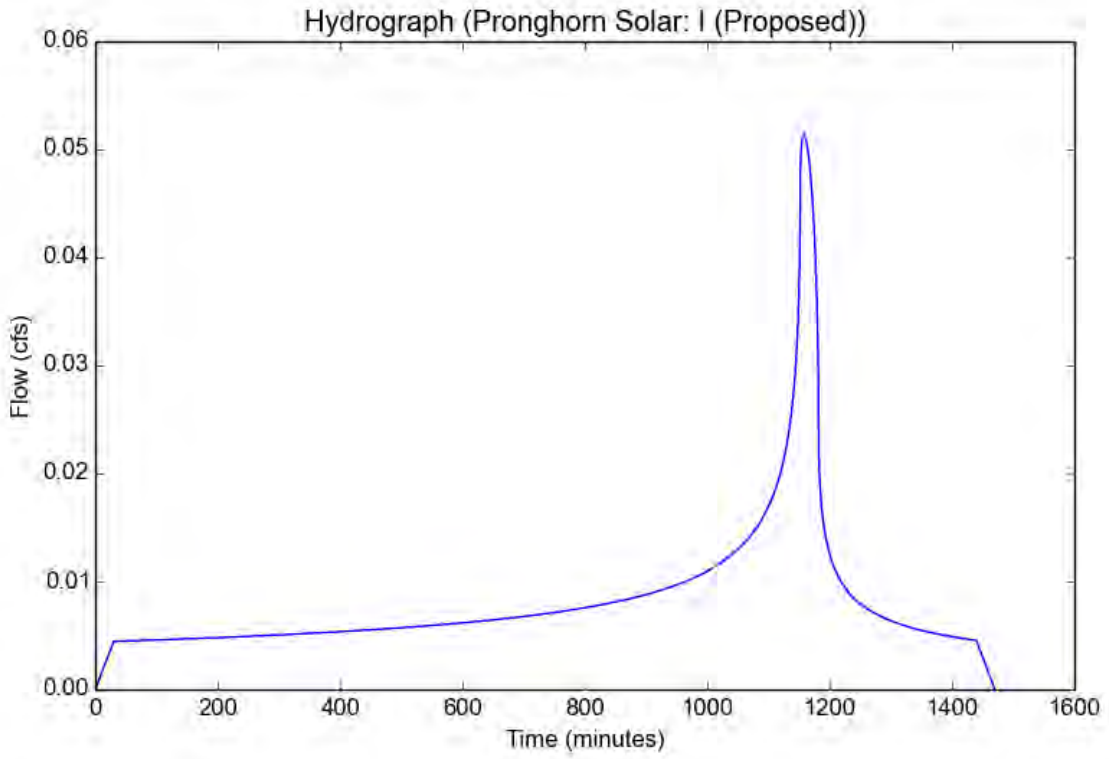
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Version: HydroCalc 1.0.3

Input Parameters

Project Name	Pronghorn Solar
Subarea ID	I (Proposed)
Area (ac)	0.72
Flow Path Length (ft)	257.0
Flow Path Slope (vft/hft)	0.008
50-yr Rainfall Depth (in)	2.6
Percent Impervious	0.027
Soil Type	134
Design Storm Frequency	25-yr
Fire Factor	0.34
LID	False

Output Results

Modeled (25-yr) Rainfall Depth (in)	2.2828
Peak Intensity (in/hr)	0.5867
Undeveloped Runoff Coefficient (Cu)	0.1
Developed Runoff Coefficient (Cd)	0.1216
Time of Concentration (min)	30.0
Clear Peak Flow Rate (cfs)	0.0514
Burned Peak Flow Rate (cfs)	0.0873
24-Hr Clear Runoff Volume (ac-ft)	0.0165
24-Hr Clear Runoff Volume (cu-ft)	719.5176



Peak Flow Hydrologic Analysis

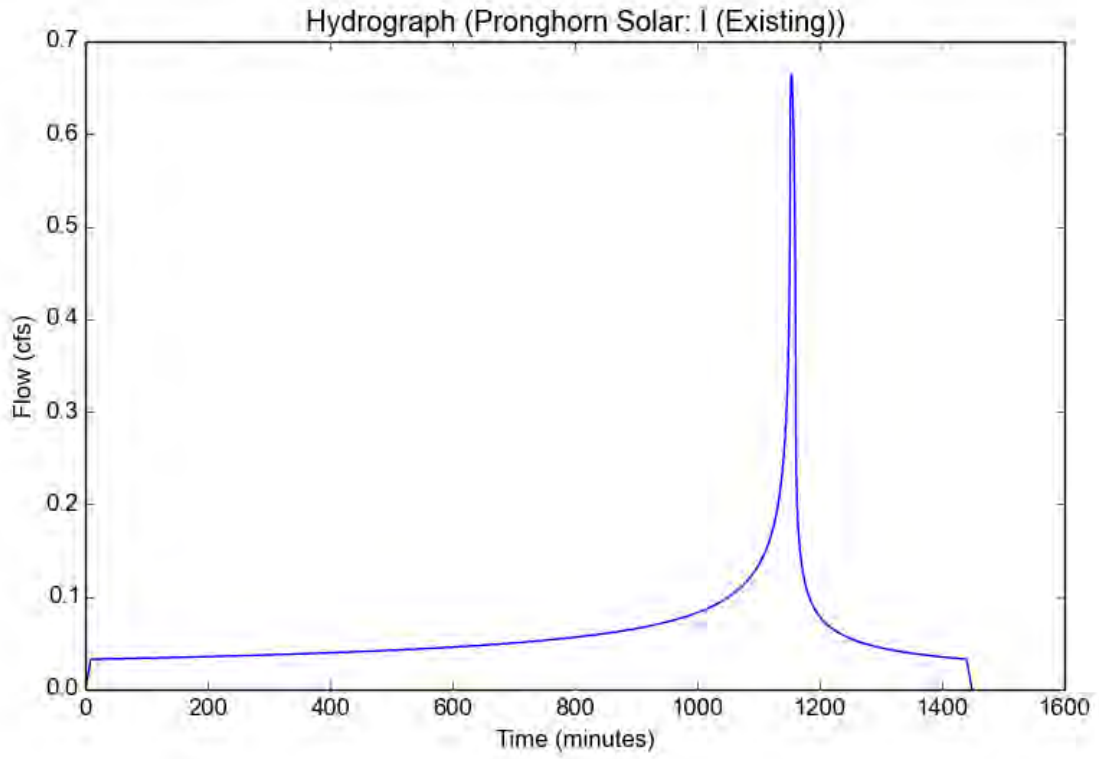
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Version: HydroCalc 1.0.3

Input Parameters

Project Name	Pronghorn Solar
Subarea ID	I (Existing)
Area (ac)	0.72
Flow Path Length (ft)	257.0
Flow Path Slope (vft/hft)	0.008
50-yr Rainfall Depth (in)	2.6
Percent Impervious	0.8553
Soil Type	134
Design Storm Frequency	50-yr
Fire Factor	0.34
LID	False

Output Results

Modeled (50-yr) Rainfall Depth (in)	2.6
Peak Intensity (in/hr)	1.1768
Undeveloped Runoff Coefficient (Cu)	0.1
Developed Runoff Coefficient (Cd)	0.7842
Time of Concentration (min)	9.0
Clear Peak Flow Rate (cfs)	0.6645
Burned Peak Flow Rate (cfs)	0.6852
24-Hr Clear Runoff Volume (ac-ft)	0.1213
24-Hr Clear Runoff Volume (cu-ft)	5285.1556



Peak Flow Hydrologic Analysis

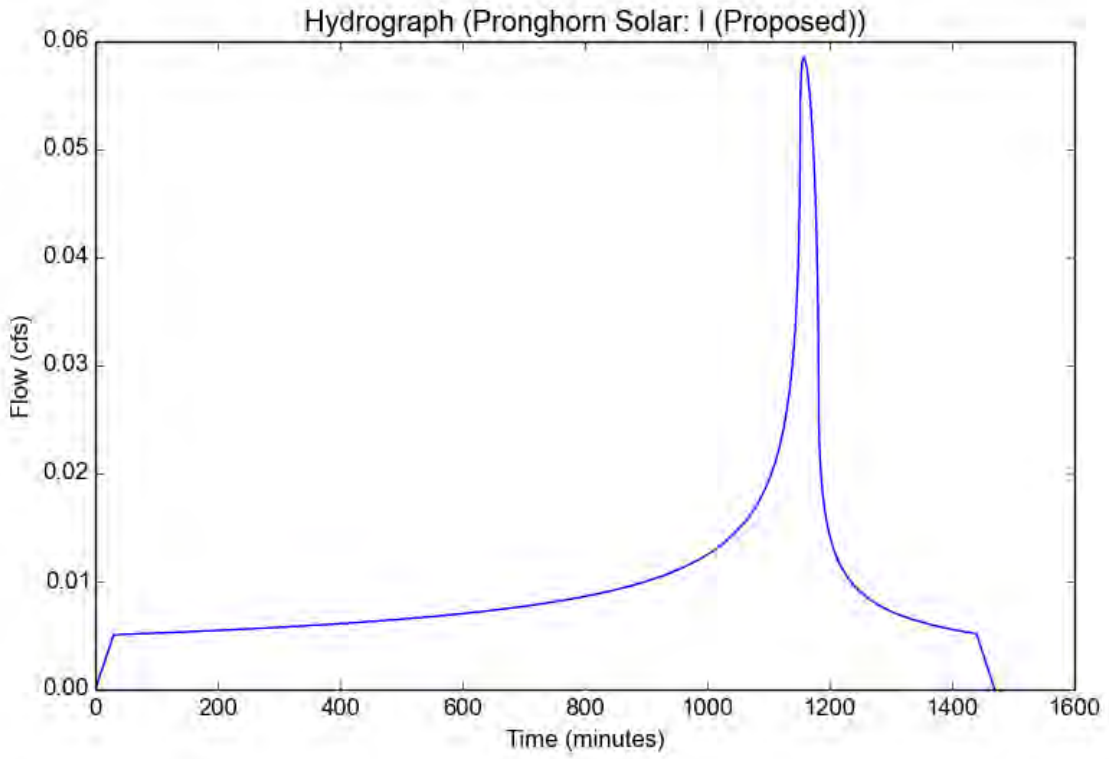
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Version: HydroCalc 1.0.3

Input Parameters

Project Name	Pronghorn Solar
Subarea ID	I (Proposed)
Area (ac)	0.72
Flow Path Length (ft)	257.0
Flow Path Slope (vft/hft)	0.008
50-yr Rainfall Depth (in)	2.6
Percent Impervious	0.027
Soil Type	134
Design Storm Frequency	50-yr
Fire Factor	0.34
LID	False

Output Results

Modeled (50-yr) Rainfall Depth (in)	2.6
Peak Intensity (in/hr)	0.6683
Undeveloped Runoff Coefficient (Cu)	0.1
Developed Runoff Coefficient (Cd)	0.1216
Time of Concentration (min)	30.0
Clear Peak Flow Rate (cfs)	0.0585
Burned Peak Flow Rate (cfs)	0.1008
24-Hr Clear Runoff Volume (ac-ft)	0.0188
24-Hr Clear Runoff Volume (cu-ft)	819.4961



Peak Flow Hydrologic Analysis

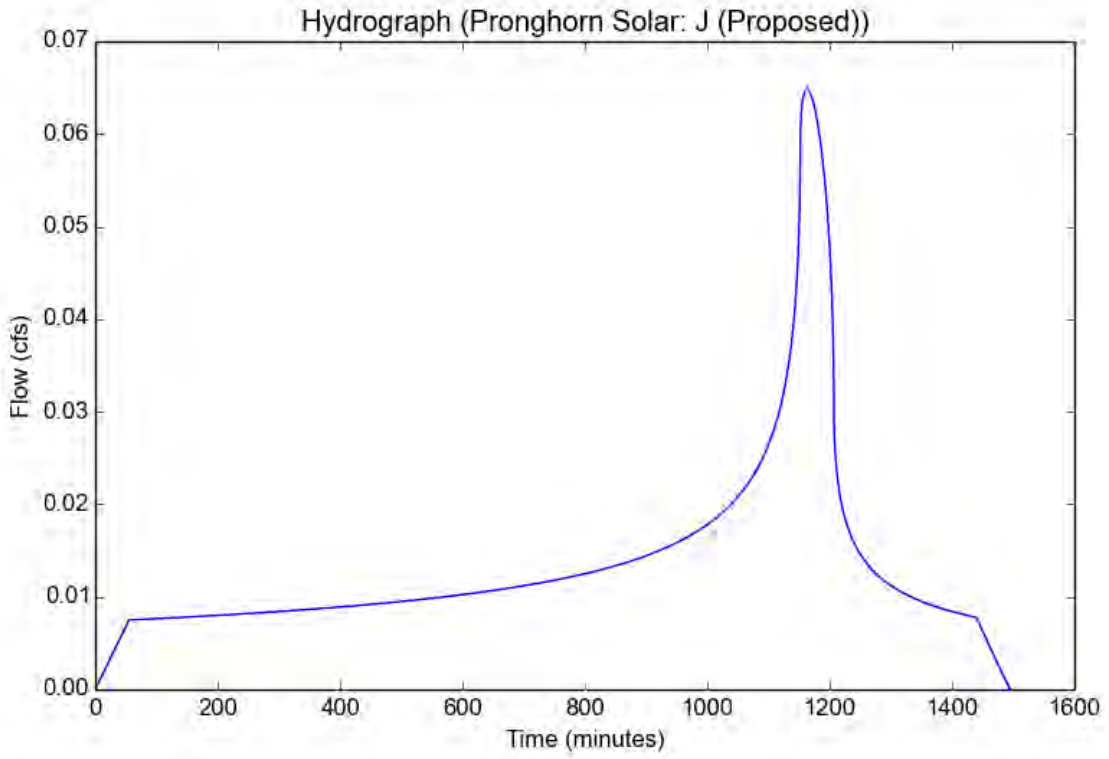
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Version: HydroCalc 1.0.3

Input Parameters

Project Name	Pronghorn Solar
Subarea ID	J (Proposed)
Area (ac)	1.747
Flow Path Length (ft)	375.0
Flow Path Slope (vft/hft)	0.011
0.75-inch Rainfall Depth (in)	0.75
Percent Impervious	0.195
Soil Type	134
Design Storm Frequency	0.75 inch storm
Fire Factor	0.34
LID	True

Output Results

Modeled (0.75 inch storm) Rainfall Depth (in)	0.75
Peak Intensity (in/hr)	0.145
Undeveloped Runoff Coefficient (Cu)	0.1
Developed Runoff Coefficient (Cd)	0.256
Time of Concentration (min)	55.0
Clear Peak Flow Rate (cfs)	0.0648
Burned Peak Flow Rate (cfs)	0.0761
24-Hr Clear Runoff Volume (ac-ft)	0.0277
24-Hr Clear Runoff Volume (cu-ft)	1207.5738



Peak Flow Hydrologic Analysis

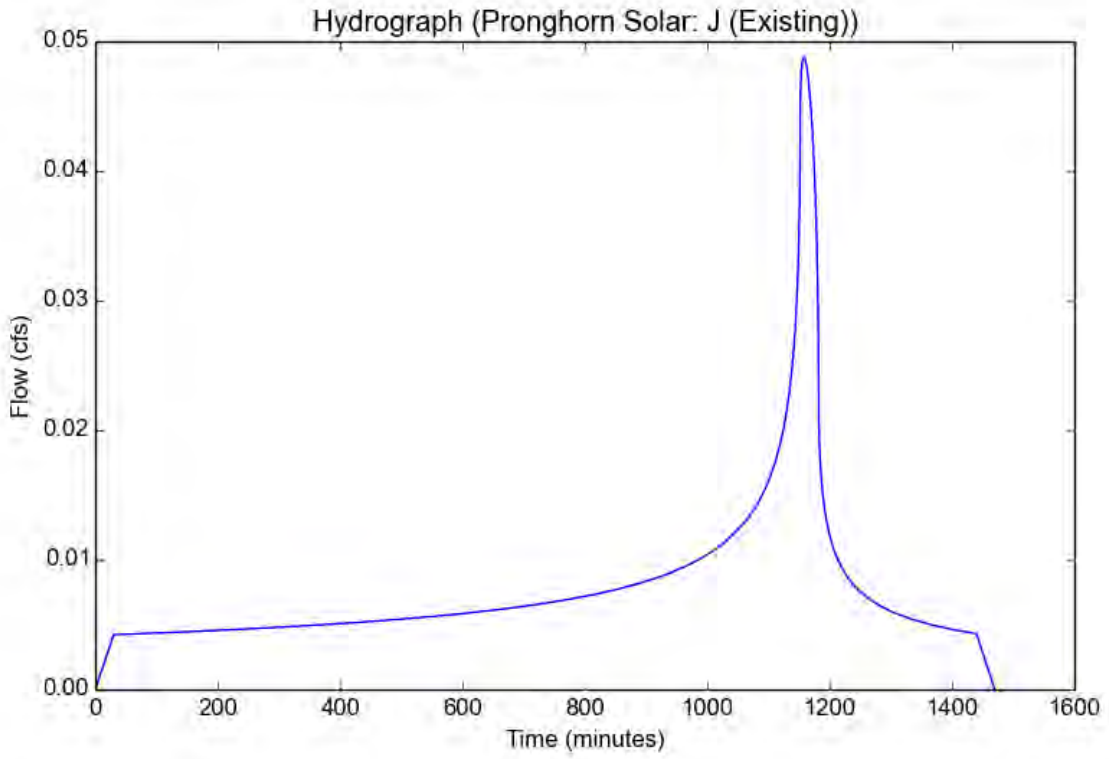
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Version: HydroCalc 1.0.3

Input Parameters

Project Name	Pronghorn Solar
Subarea ID	J (Existing)
Area (ac)	1.747
Flow Path Length (ft)	375.0
Flow Path Slope (vft/hft)	0.011
50-yr Rainfall Depth (in)	2.6
Percent Impervious	0.01
Soil Type	134
Design Storm Frequency	2-yr
Fire Factor	0.34
LID	False

Output Results

Modeled (2-yr) Rainfall Depth (in)	1.0062
Peak Intensity (in/hr)	0.2586
Undeveloped Runoff Coefficient (Cu)	0.1
Developed Runoff Coefficient (Cd)	0.108
Time of Concentration (min)	30.0
Clear Peak Flow Rate (cfs)	0.0488
Burned Peak Flow Rate (cfs)	0.0793
24-Hr Clear Runoff Volume (ac-ft)	0.0157
24-Hr Clear Runoff Volume (cu-ft)	683.4527



Peak Flow Hydrologic Analysis

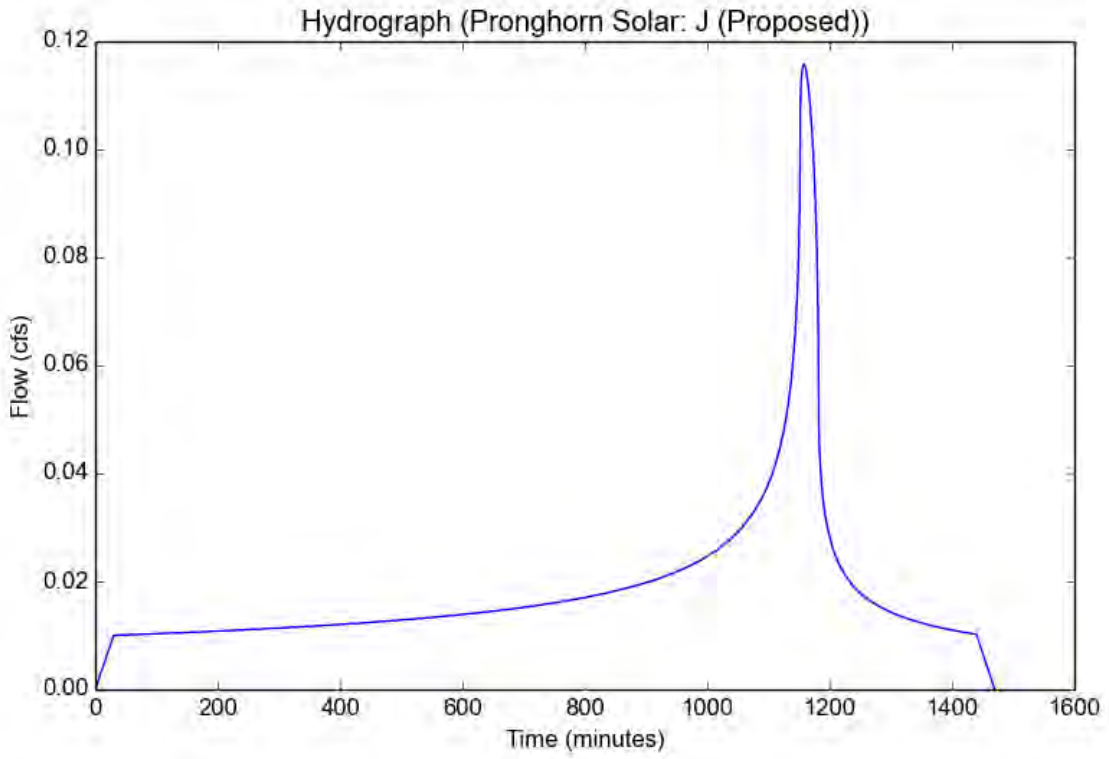
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Version: HydroCalc 1.0.3

Input Parameters

Project Name	Pronghorn Solar
Subarea ID	J (Proposed)
Area (ac)	1.747
Flow Path Length (ft)	375.0
Flow Path Slope (vft/hft)	0.011
50-yr Rainfall Depth (in)	2.6
Percent Impervious	0.195
Soil Type	134
Design Storm Frequency	2-yr
Fire Factor	0.34
LID	False

Output Results

Modeled (2-yr) Rainfall Depth (in)	1.0062
Peak Intensity (in/hr)	0.2586
Undeveloped Runoff Coefficient (Cu)	0.1
Developed Runoff Coefficient (Cd)	0.256
Time of Concentration (min)	30.0
Clear Peak Flow Rate (cfs)	0.1157
Burned Peak Flow Rate (cfs)	0.1411
24-Hr Clear Runoff Volume (ac-ft)	0.0372
24-Hr Clear Runoff Volume (cu-ft)	1620.036



Peak Flow Hydrologic Analysis

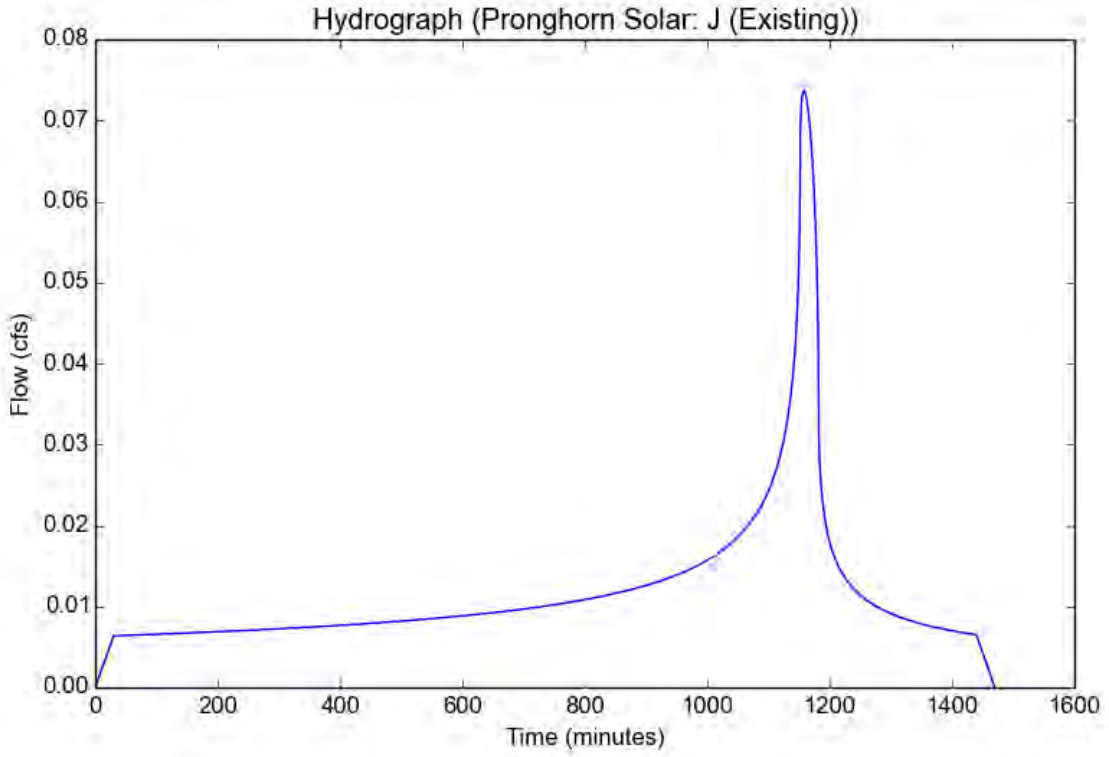
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Version: HydroCalc 1.0.3

Input Parameters

Project Name	Pronghorn Solar
Subarea ID	J (Existing)
Area (ac)	1.747
Flow Path Length (ft)	375.0
Flow Path Slope (vft/hft)	0.011
50-yr Rainfall Depth (in)	2.6
Percent Impervious	0.01
Soil Type	134
Design Storm Frequency	5-yr
Fire Factor	0.34
LID	False

Output Results

Modeled (5-yr) Rainfall Depth (in)	1.5184
Peak Intensity (in/hr)	0.3903
Undeveloped Runoff Coefficient (Cu)	0.1
Developed Runoff Coefficient (Cd)	0.108
Time of Concentration (min)	30.0
Clear Peak Flow Rate (cfs)	0.0736
Burned Peak Flow Rate (cfs)	0.1263
24-Hr Clear Runoff Volume (ac-ft)	0.0237
24-Hr Clear Runoff Volume (cu-ft)	1031.3601



Peak Flow Hydrologic Analysis

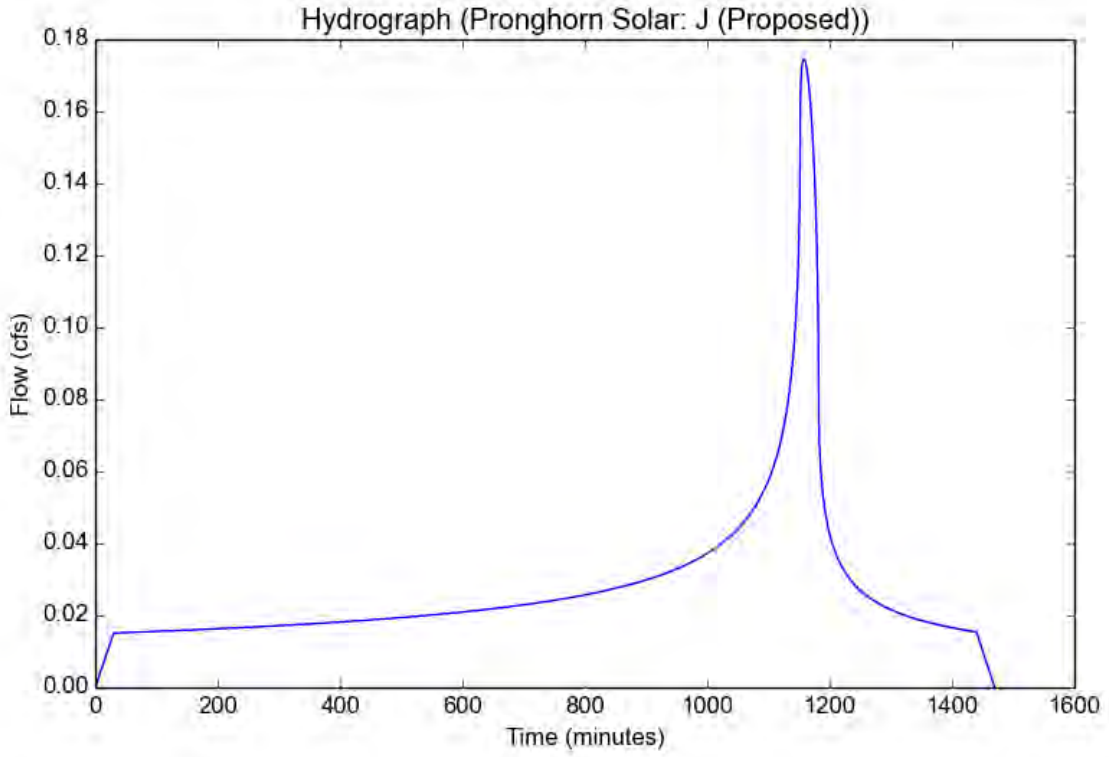
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Version: HydroCalc 1.0.3

Input Parameters

Project Name	Pronghorn Solar
Subarea ID	J (Proposed)
Area (ac)	1.747
Flow Path Length (ft)	375.0
Flow Path Slope (vft/hft)	0.011
50-yr Rainfall Depth (in)	2.6
Percent Impervious	0.195
Soil Type	134
Design Storm Frequency	5-yr
Fire Factor	0.34
LID	False

Output Results

Modeled (5-yr) Rainfall Depth (in)	1.5184
Peak Intensity (in/hr)	0.3903
Undeveloped Runoff Coefficient (Cu)	0.1
Developed Runoff Coefficient (Cd)	0.256
Time of Concentration (min)	30.0
Clear Peak Flow Rate (cfs)	0.1745
Burned Peak Flow Rate (cfs)	0.2185
24-Hr Clear Runoff Volume (ac-ft)	0.0561
24-Hr Clear Runoff Volume (cu-ft)	2444.7055



Peak Flow Hydrologic Analysis

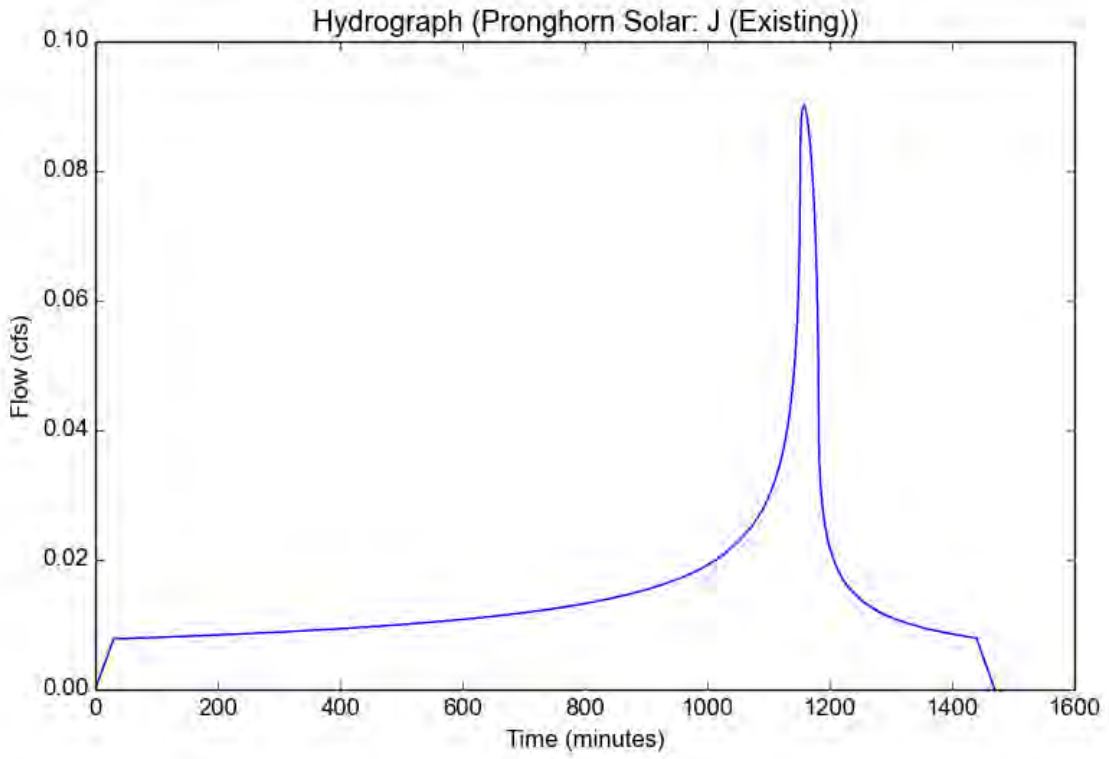
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Version: HydroCalc 1.0.3

Input Parameters

Project Name	Pronghorn Solar
Subarea ID	J (Existing)
Area (ac)	1.747
Flow Path Length (ft)	375.0
Flow Path Slope (vft/hft)	0.011
50-yr Rainfall Depth (in)	2.6
Percent Impervious	0.01
Soil Type	134
Design Storm Frequency	10-yr
Fire Factor	0.34
LID	False

Output Results

Modeled (10-yr) Rainfall Depth (in)	1.8564
Peak Intensity (in/hr)	0.4771
Undeveloped Runoff Coefficient (Cu)	0.1
Developed Runoff Coefficient (Cd)	0.108
Time of Concentration (min)	30.0
Clear Peak Flow Rate (cfs)	0.09
Burned Peak Flow Rate (cfs)	0.1583
24-Hr Clear Runoff Volume (ac-ft)	0.0289
24-Hr Clear Runoff Volume (cu-ft)	1260.9437



Peak Flow Hydrologic Analysis

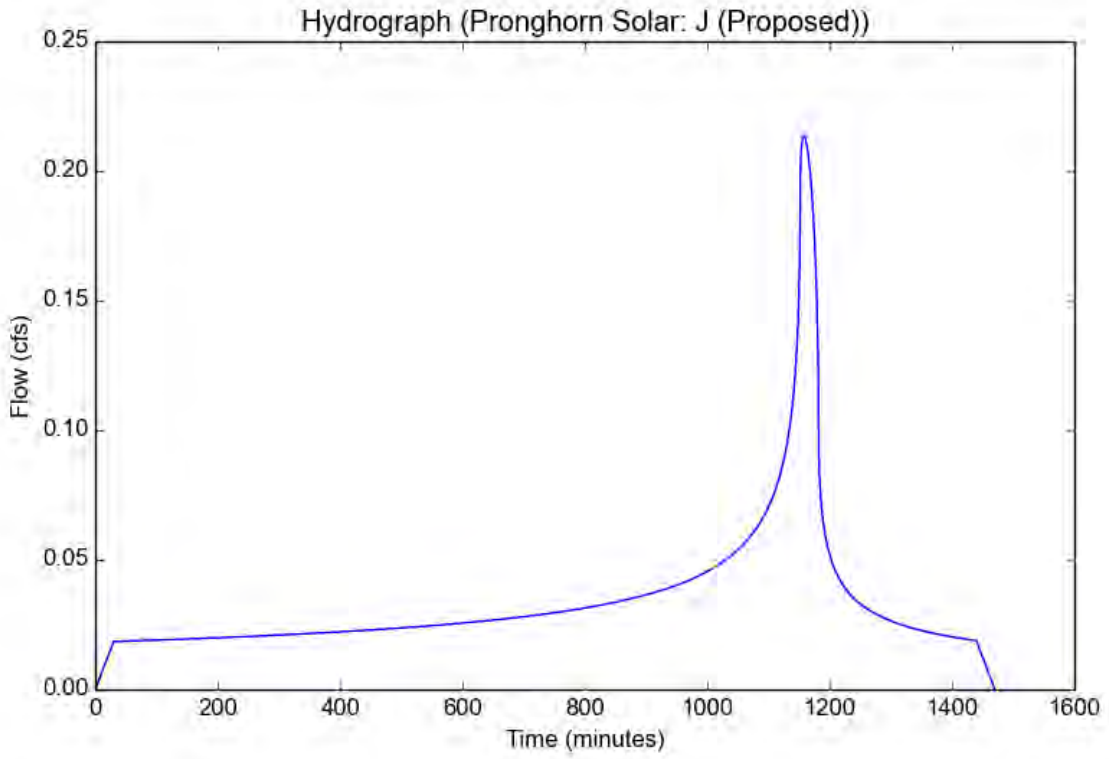
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Version: HydroCalc 1.0.3

Input Parameters

Project Name	Pronghorn Solar
Subarea ID	J (Proposed)
Area (ac)	1.747
Flow Path Length (ft)	375.0
Flow Path Slope (vft/hft)	0.011
50-yr Rainfall Depth (in)	2.6
Percent Impervious	0.195
Soil Type	134
Design Storm Frequency	10-yr
Fire Factor	0.34
LID	False

Output Results

Modeled (10-yr) Rainfall Depth (in)	1.8564
Peak Intensity (in/hr)	0.4771
Undeveloped Runoff Coefficient (Cu)	0.1
Developed Runoff Coefficient (Cd)	0.256
Time of Concentration (min)	30.0
Clear Peak Flow Rate (cfs)	0.2134
Burned Peak Flow Rate (cfs)	0.2703
24-Hr Clear Runoff Volume (ac-ft)	0.0686
24-Hr Clear Runoff Volume (cu-ft)	2988.9037



Peak Flow Hydrologic Analysis

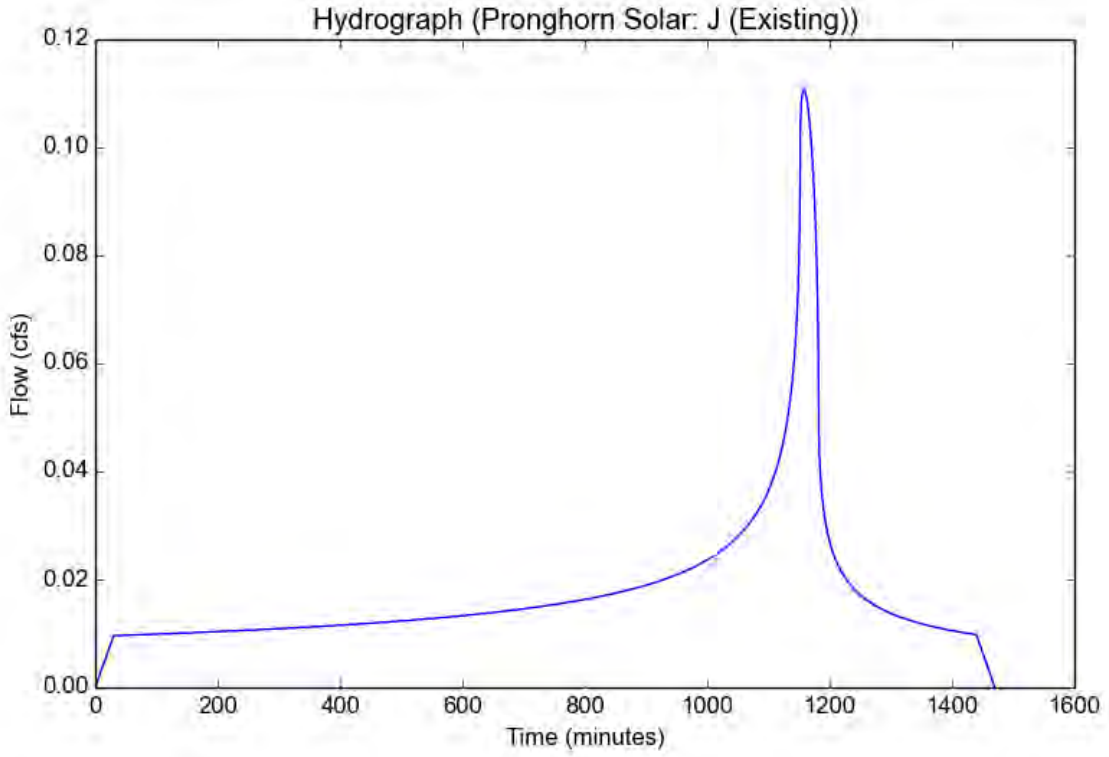
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Version: HydroCalc 1.0.3

Input Parameters

Project Name	Pronghorn Solar
Subarea ID	J (Existing)
Area (ac)	1.747
Flow Path Length (ft)	375.0
Flow Path Slope (vft/hft)	0.011
50-yr Rainfall Depth (in)	2.6
Percent Impervious	0.01
Soil Type	134
Design Storm Frequency	25-yr
Fire Factor	0.34
LID	False

Output Results

Modeled (25-yr) Rainfall Depth (in)	2.2828
Peak Intensity (in/hr)	0.5867
Undeveloped Runoff Coefficient (Cu)	0.1
Developed Runoff Coefficient (Cd)	0.108
Time of Concentration (min)	30.0
Clear Peak Flow Rate (cfs)	0.1107
Burned Peak Flow Rate (cfs)	0.1994
24-Hr Clear Runoff Volume (ac-ft)	0.0356
24-Hr Clear Runoff Volume (cu-ft)	1550.5723



Peak Flow Hydrologic Analysis

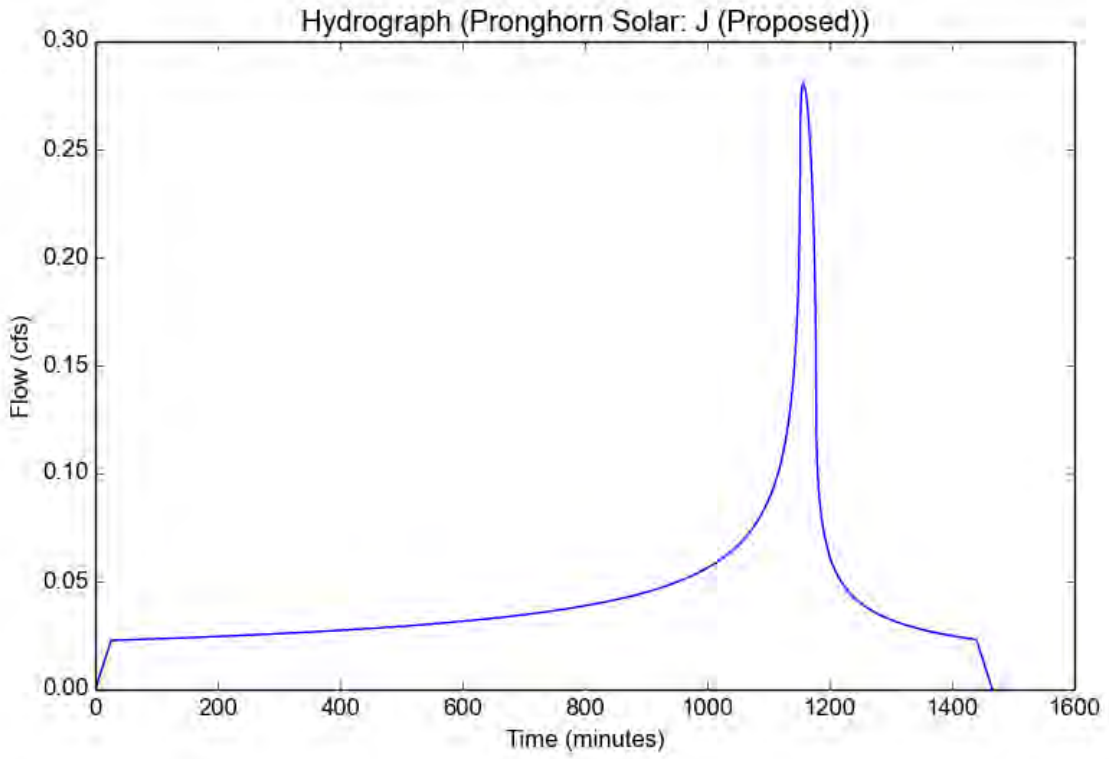
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Version: HydroCalc 1.0.3

Input Parameters

Project Name	Pronghorn Solar
Subarea ID	J (Proposed)
Area (ac)	1.747
Flow Path Length (ft)	375.0
Flow Path Slope (vft/hft)	0.011
50-yr Rainfall Depth (in)	2.6
Percent Impervious	0.195
Soil Type	134
Design Storm Frequency	25-yr
Fire Factor	0.34
LID	False

Output Results

Modeled (25-yr) Rainfall Depth (in)	2.2828
Peak Intensity (in/hr)	0.6276
Undeveloped Runoff Coefficient (Cu)	0.1
Developed Runoff Coefficient (Cd)	0.256
Time of Concentration (min)	26.0
Clear Peak Flow Rate (cfs)	0.2807
Burned Peak Flow Rate (cfs)	0.3611
24-Hr Clear Runoff Volume (ac-ft)	0.0844
24-Hr Clear Runoff Volume (cu-ft)	3675.42



Peak Flow Hydrologic Analysis

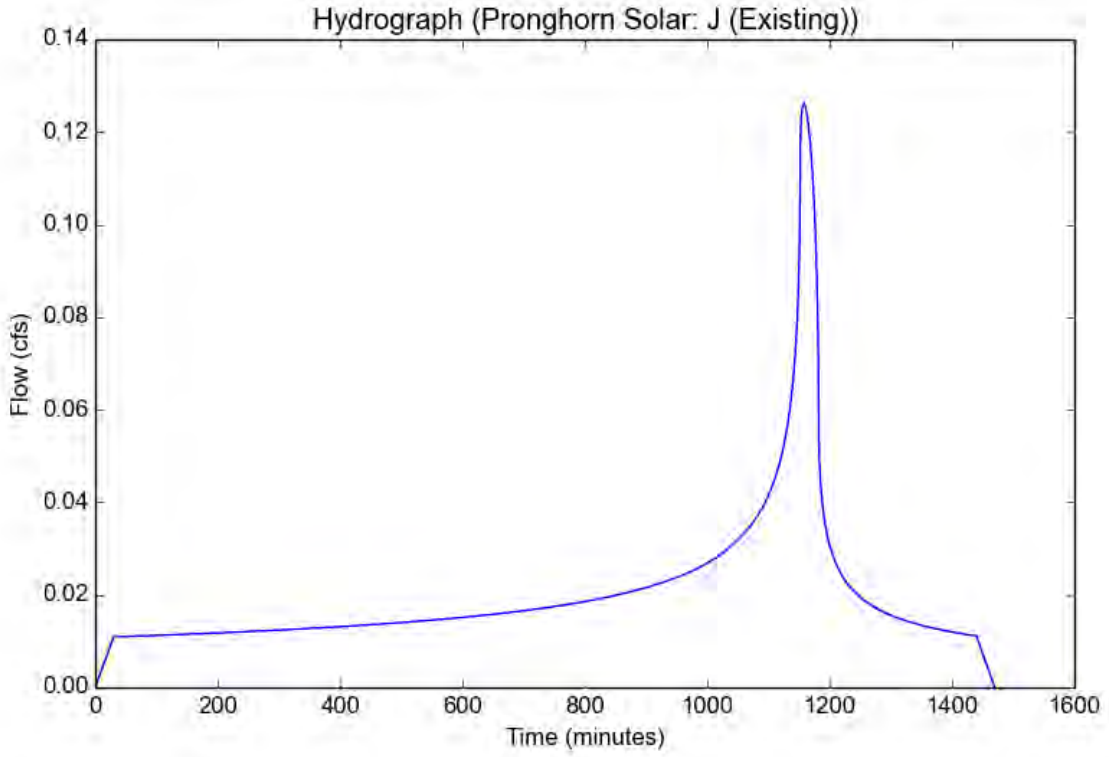
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Version: HydroCalc 1.0.3

Input Parameters

Project Name	Pronghorn Solar
Subarea ID	J (Existing)
Area (ac)	1.747
Flow Path Length (ft)	375.0
Flow Path Slope (vft/hft)	0.011
50-yr Rainfall Depth (in)	2.6
Percent Impervious	0.01
Soil Type	134
Design Storm Frequency	50-yr
Fire Factor	0.34
LID	False

Output Results

Modeled (50-yr) Rainfall Depth (in)	2.6
Peak Intensity (in/hr)	0.6683
Undeveloped Runoff Coefficient (Cu)	0.1
Developed Runoff Coefficient (Cd)	0.108
Time of Concentration (min)	30.0
Clear Peak Flow Rate (cfs)	0.1261
Burned Peak Flow Rate (cfs)	0.2304
24-Hr Clear Runoff Volume (ac-ft)	0.0405
24-Hr Clear Runoff Volume (cu-ft)	1766.0276



Peak Flow Hydrologic Analysis

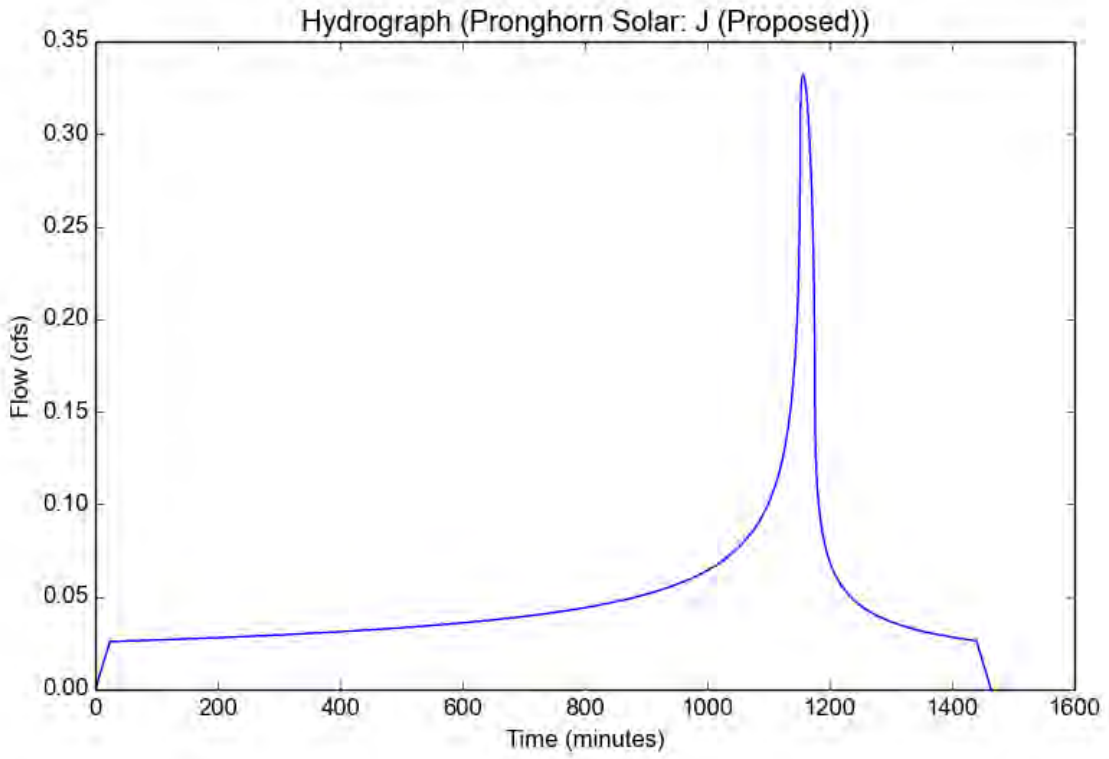
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Version: HydroCalc 1.0.3

Input Parameters

Project Name	Pronghorn Solar
Subarea ID	J (Proposed)
Area (ac)	1.747
Flow Path Length (ft)	375.0
Flow Path Slope (vft/hft)	0.011
50-yr Rainfall Depth (in)	2.6
Percent Impervious	0.195
Soil Type	134
Design Storm Frequency	50-yr
Fire Factor	0.34
LID	False

Output Results

Modeled (50-yr) Rainfall Depth (in)	2.6
Peak Intensity (in/hr)	0.7422
Undeveloped Runoff Coefficient (Cu)	0.1
Developed Runoff Coefficient (Cd)	0.256
Time of Concentration (min)	24.0
Clear Peak Flow Rate (cfs)	0.3319
Burned Peak Flow Rate (cfs)	0.431
24-Hr Clear Runoff Volume (ac-ft)	0.0961
24-Hr Clear Runoff Volume (cu-ft)	4186.1222



SECTION 2

SIZING WORKSHEETS

Design Volume Calc. Table

DMA ID	Acerage	PRE DEV. IMPERVIOUS (%)	POST DEV. IMPERVIOUS (%)	2 YR		5 YR		10 YR		25 YR		50 YR				
				PRE DEV. VOLUME (CF)	POST. DEV. VOLUME (CF)	PRE DEV. VOLUME (CF)	POST. DEV. VOLUME (CF)	PRE DEV. VOLUME (CF)	POST. DEV. VOLUME (CF)	PRE DEV. VOLUME (CF)	POST. DEV. VOLUME (CF)	PRE DEV. VOLUME (CF)	POST. DEV. VOLUME (CF)	PRE-POST VOLUME DELTA (CF)	SWQDv (CF)	DESIGN VOLUME (CF)
A	25.80	0.01 (0.0)	0.10	10093	16822	15231	25386	18622	31036	22899	38165	26081	43468	17387	12543	17387
B	38.13	0.01 (0.0003)	0.10	14917	24862	22510	37517	27521	45869	33843	56405	38545	64242	25697	18542	25697
C	38.49	0.01 (0.0)	0.10	15058	25096	22723	37872	27781	46302	34162	56937	38909	64849	25940	18712	25940
D	27.42	0.01 (0.0)	0.10	10727	17878	16188	26979	19791	32985	24337	40562	27719	46198	18479	13335	18479
E	30.04	0.01 (0.0003)	0.10	11752	19587	17734	29557	21682	36137	26662	44437	30367	50612	20245	14607	20245
F	32.24	0.01 (0.0002)	0.10	12613	21021	19033	31722	23270	38783	28615	47692	32591	54319	21728	15676	21728
G	22.69	0.01 (0.0)	0.10	8877	14794	13395	22325	16377	27295	20139	33565	22937	38229	15292	11033	15292
H	24.54	0.01 (0.0)	0.10	9600	16001	14487	24146	17712	29521	21781	36301	24807	41345	16538	11932	16538
I	0.72	0.8553	0.027	2045	317	3087	479	3774	585	4640	720	5285	820	-4465	236	236
J	1.75	0.01 (0.0)	0.195	683	1620	1031	2445	1261	2989	1551	3675	1766	4186	2420	1208	2420

*1% IMPERVIOUS USED FOR HYDROCALC MINIMUM- ACTUAL IMPERVIOUS PERCENTAGES SHOWN IN PARENTHESIS

**10% MIN. IMPERVIOUS FOR SOLAR ARRAYS PER LA COUNTY

***SWQDv BASED ON 0.75" / 24-HOUR STORM

A. Infiltration Basin Sizing Worksheet			
Step 1: Determine Design Volume			
1-1. Enter the design volume (50-year volume delta or 0.75-inch storm volume, whichever is greater.	V=	17387	ft^3
Step 2: Determine design infiltration rate			
2-1. Determine the corrected in-situ infiltration rate, f_{design} (per infiltration testing, 0.3 in/hr min.)	f_{design}=	0.60	in/hr
Step 3: Determine maximum depth of stormwater runoff			
3-1. Determin maximum depth of stormwater runoff that can be infiltrated within the maximum retention time (96 hrs), $d_{max} = (f_{design}/12)*96$	d_{max}=	4.80	ft
Step 4: Select Basin Ponding Depth			
4-1. Select basin ponding depth, d_t, such that $d_t \leq d_{max}$	d_t=	0.50	ft
Step 5: Calculatebasin area (bottom) required			
5-1. Calculate the infiltrating surface area (bottom of the basin) required, $A=V/d_t$	A=	34774	ft^2

Drawdown time calculation = $d_t / (f_{design}/12)$	10	hrs.

B. Infiltration Basin Sizing Worksheet			
Step 1: Determine Design Volume			
1-1. Enter the design volume (50-year volume delta or 0.75-inch storm volume, whichever is greater.	V=	25697	ft^3
Step 2: Determine design infiltration rate			
2-1. Determine the corrected in-situ infiltration rate, f_{design} (per infiltration testing, 0.3 in/hr min.)	f_{design}=	0.60	in/hr
Step 3: Determine maximum depth of stormwater runoff			
3-1. Determin maximum depth of stormwater runoff that can be infiltrated within the maximum retention time (96 hrs), $d_{max} = (f_{design}/12)*96$	d_{max}=	4.80	ft
Step 4: Select Basin Ponding Depth			
4-1. Select basin ponding depth, d_t, such that $d_t \leq d_{max}$	d_t=	0.50	ft
Step 5: Calculatebasin area (bottom) required			
5-1. Calculate the infiltrating surface area (bottom of the basin) required, $A=V/d_t$	A=	51394	ft^2

Drawdown time calculation = $d_t / (f_{design}/12)$	10	hrs.

C. Infiltration Basin Sizing Worksheet			
Step 1: Determine Design Volume			
1-1. Enter the design volume (50-year volume delta or 0.75-inch storm volume, whichever is greater.	V=	25940	ft^3
Step 2: Determine design infiltration rate			
2-1. Determine the corrected in-situ infiltration rate, f_{design} (per infiltration testing, 0.3 in/hr min.)	f_{design}=	0.60	in/hr
Step 3: Determine maximum depth of stormwater runoff			
3-1. Determin maximum depth of stormwater runoff that can be infiltrated within the maximum retention time (96 hrs), $d_{max} = (f_{design}/12)*96$	d_{max}=	4.80	ft
Step 4: Select Basin Ponding Depth			
4-1. Select basin ponding depth, d_t, such that $d_t \leq d_{max}$	d_t=	0.50	ft
Step 5: Calculatebasin area (bottom) required			
5-1. Calculate the infiltrating surface area (bottom of the basin) required, $A=V/d_t$	A=	51880	ft^2

Drawdown time calculation = $d_t / (f_{design}/12)$	10	hrs.

D. Infiltration Basin Sizing Worksheet			
Step 1: Determine Design Volume			
1-1. Enter the design volume (50-year volume delta or 0.75-inch storm volume, whichever is greater.	V=	18479	ft^3
Step 2: Determine design infiltration rate			
2-1. Determine the corrected in-situ infiltration rate, f_{design} (per infiltration testing, 0.3 in/hr min.)	f_{design}=	0.60	in/hr
Step 3: Determine maximum depth of stormwater runoff			
3-1. Determin maximum depth of stormwater runoff that can be infiltrated within the maximum retention time (96 hrs), $d_{max} = (f_{design}/12)*96$	d_{max}=	4.80	ft
Step 4: Select Basin Ponding Depth			
4-1. Select basin ponding depth, d_t, such that $d_t \leq d_{max}$	d_t=	0.50	ft
Step 5: Calculatebasin area (bottom) required			
5-1. Calculate the infiltrating surface area (bottom of the basin) required, $A=V/d_t$	A=	36958	ft^2

Drawdown time calculation = $d_t / (f_{design}/12)$	10	hrs.

E. Infiltration Basin Sizing Worksheet			
Step 1: Determine Design Volume			
1-1. Enter the design volume (50-year volume delta or 0.75-inch storm volume, whichever is greater.	V=	20245	ft^3
Step 2: Determine design infiltration rate			
2-1. Determine the corrected in-situ infiltration rate, f_{design} (per infiltration testing, 0.3 in/hr min.)	f_{design}=	0.60	in/hr
Step 3: Determine maximum depth of stormwater runoff			
3-1. Determin maximum depth of stormwater runoff that can be infiltrated within the maximum retention time (96 hrs), $d_{max} = (f_{design}/12)*96$	d_{max}=	4.80	ft
Step 4: Select Basin Ponding Depth			
4-1. Select basin ponding depth, d_t, such that $d_t \leq d_{max}$	d_t=	0.50	ft
Step 5: Calculatebasin area (bottom) required			
5-1. Calculate the infiltrating surface area (bottom of the basin) required, $A=V/d_t$	A=	40490	ft^2

Drawdown time calculation = $d_t / (f_{design}/12)$	10	hrs.

F. Infiltration Basin Sizing Worksheet			
Step 1: Determine Design Volume			
1-1. Enter the design volume (50-year volume delta or 0.75-inch storm volume, whichever is greater.	V=	21728	ft^3
Step 2: Determine design infiltration rate			
2-1. Determine the corrected in-situ infiltration rate, f_{design} (per infiltration testing, 0.3 in/hr min.)	f_{design}=	0.30	in/hr
Step 3: Determine maximum depth of stormwater runoff			
3-1. Determin maximum depth of stormwater runoff that can be infiltrated within the maximum retention time (96 hrs), $d_{max} = (f_{design}/12)*96$	d_{max}=	2.40	ft
Step 4: Select Basin Ponding Depth			
4-1. Select basin ponding depth, d_t, such that $d_t \leq d_{max}$	d_t=	0.50	ft
Step 5: Calculatebasin area (bottom) required			
5-1. Calculate the infiltrating surface area (bottom of the basin) required, $A=V/d_t$	A=	43456	ft^2

Drawdown time calculation = $d_t / (f_{design}/12)$	20	hrs.

G. Infiltration Basin Sizing Worksheet			
Step 1: Determine Design Volume			
1-1. Enter the design volume (50-year volume delta or 0.75-inch storm volume, whichever is greater.	V=	15292	ft^3
Step 2: Determine design infiltration rate			
2-1. Determine the corrected in-situ infiltration rate, f_{design} (per infiltration testing, 0.3 in/hr min.)	f_{design}=	0.30	in/hr
Step 3: Determine maximum depth of stormwater runoff			
3-1. Determin maximum depth of stormwater runoff that can be infiltrated within the maximum retention time (96 hrs), $d_{max} = (f_{design}/12)*96$	d_{max}=	2.40	ft
Step 4: Select Basin Ponding Depth			
4-1. Select basin ponding depth, d_t, such that $d_t \leq d_{max}$	d_t=	0.50	ft
Step 5: Calculatebasin area (bottom) required			
5-1. Calculate the infiltrating surface area (bottom of the basin) required, $A=V/d_t$	A=	30584	ft^2

Drawdown time calculation = $d_t / (f_{design}/12)$	20	hrs.

H. Infiltration Basin Sizing Worksheet			
Step 1: Determine Design Volume			
1-1. Enter the design volume (50-year volume delta or 0.75-inch storm volume, whichever is greater.	V=	16538	ft^3
Step 2: Determine design infiltration rate			
2-1. Determine the corrected in-situ infiltration rate, f_{design} (per infiltration testing, 0.3 in/hr min.)	f_{design}=	0.30	in/hr
Step 3: Determine maximum depth of stormwater runoff			
3-1. Determin maximum depth of stormwater runoff that can be infiltrated within the maximum retention time (96 hrs), $d_{max} = (f_{design}/12)*96$	d_{max}=	2.40	ft
Step 4: Select Basin Ponding Depth			
4-1. Select basin ponding depth, d_t, such that $d_t \leq d_{max}$	d_t=	0.50	ft
Step 5: Calculatebasin area (bottom) required			
5-1. Calculate the infiltrating surface area (bottom of the basin) required, $A=V/d_t$	A=	33076	ft^2

Drawdown time calculation = $d_t / (f_{design}/12)$	20	hrs.

I. Gravel Area Sizing Worksheet			
Step 1: Determine Design Volume			
1-1. Enter the design volume (50-year volume delta or 0.75-inch storm volume, whichever is greater.	V=	236	ft^3
Step 2: Determine design infiltration rate			
2-1. Determine the corrected in-situ infiltration rate, f_{design} (per infiltration testing, 0.3 in/hr min.)	f_{design}=	0.60	in/hr
Step 3: Determine maximum depth of stormwater runoff			
3-1. Determin maximum depth of stormwater runoff that can be infiltrated within the maximum retention time (96 hrs), $d_{max} = (f_{design}/12)*96$	d_{max}=	4.80	ft
Step 4: Select Gravel Depth			
4-1. Select gravel depth, d_t, such that $d_t \leq d_{max}$	d_t=	0.50	ft
Step 5: Calculate gravel area required			
5-1. Calculate the infiltrating surface area of gravel required, $A=V/d_t$ x p (p=gravel void porosity=0.3)	A=	1573	ft^2

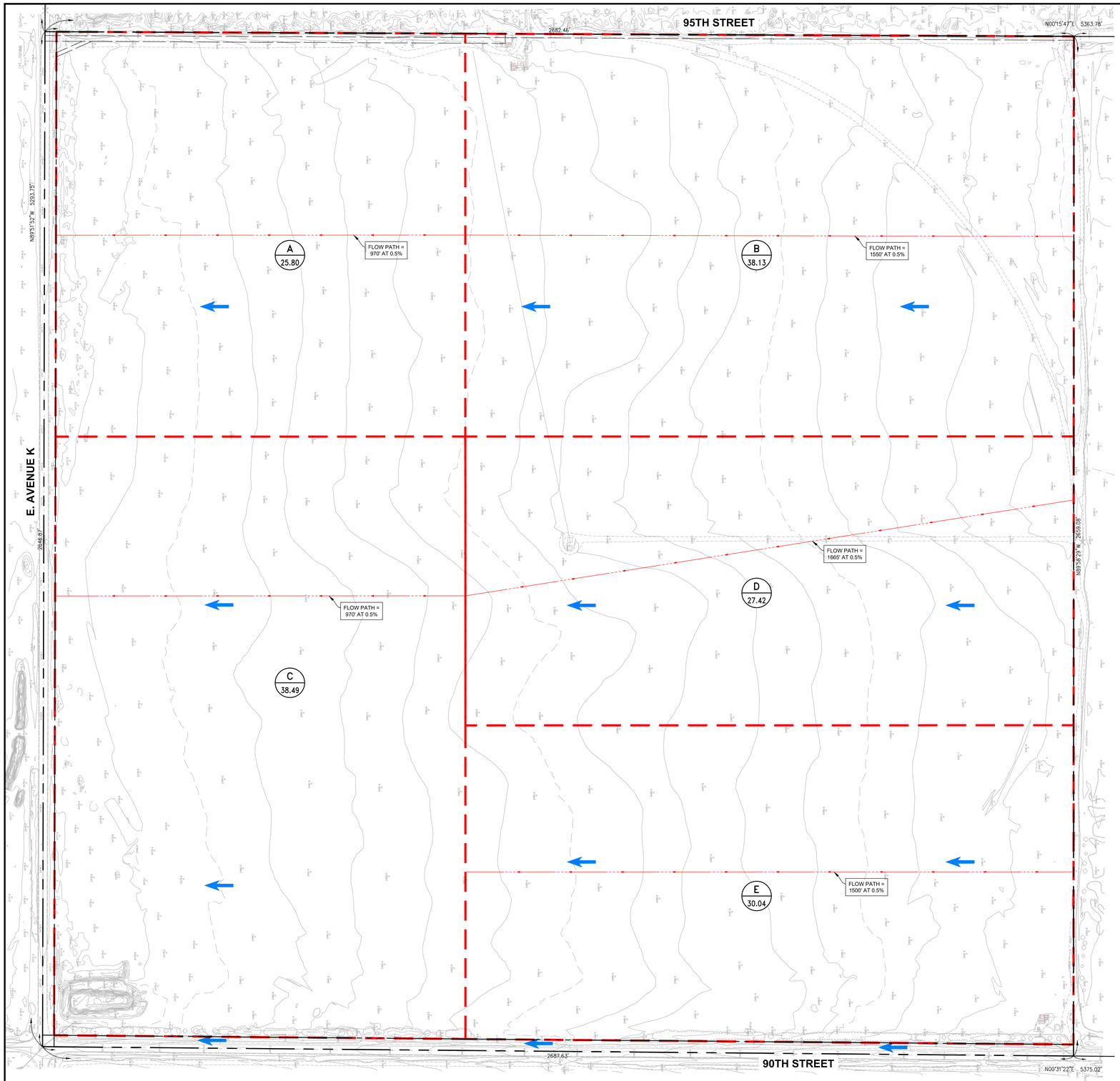
Drawdown time calculation = $d_t / (f_{design}/12)$	10	hrs.

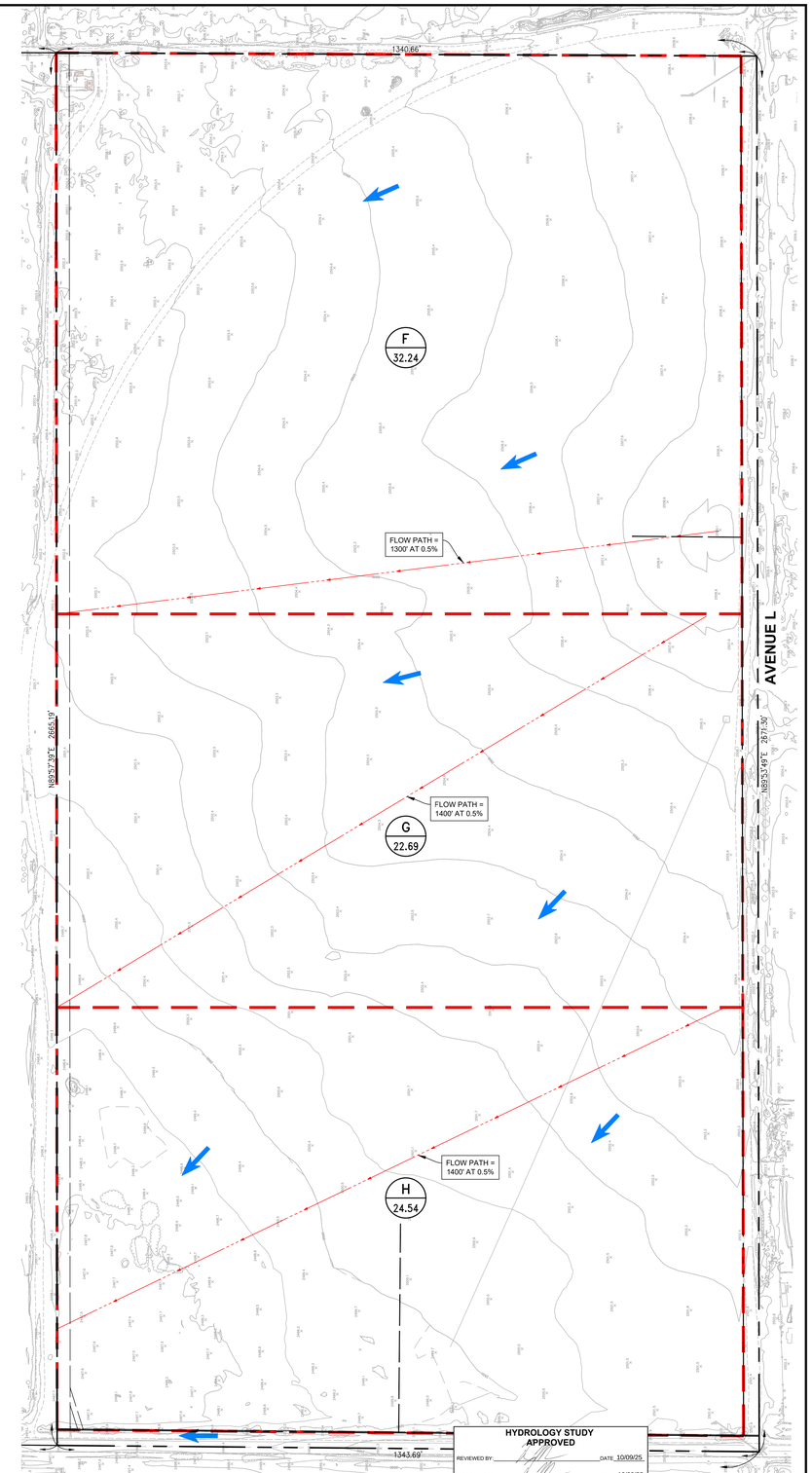
J. Infiltration Basin Sizing Worksheet			
Step 1: Determine Design Volume			
1-1. Enter the design volume (50-year volume delta or 0.75-inch storm volume, whichever is greater.	V=	2420	ft^3
Step 2: Determine design infiltration rate			
2-1. Determine the corrected in-situ infiltration rate, f_{design} (per infiltration testing, 0.3 in/hr min.)	f_{design}=	0.60	in/hr
Step 3: Determine maximum depth of stormwater runoff			
3-1. Determin maximum depth of stormwater runoff that can be infiltrated within the maximum retention time (96 hrs), $d_{max} = (f_{design}/12)*96$	d_{max}=	4.80	ft
Step 4: Select Basin Ponding Depth			
4-1. Select basin ponding depth, d_t, such that $d_t \leq d_{max}$	d_t=	1.50	ft
Step 5: Calculatebasin area (bottom) required			
5-1. Calculate the infiltrating surface area (bottom of the basin) required, $A=V/d_t$	A=	1613	ft^2

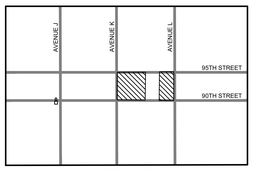
Drawdown time calculation = $d_t / (f_{design}/12)$	30	hrs.

SECTION 3

STORMWATER EXHIBITS







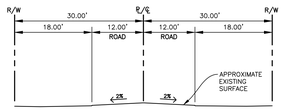
KEY MAP
NOT TO SCALE

IMPORTANT NOTICE

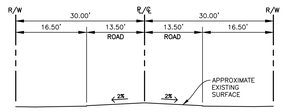
ALL UTILITY LOCATIONS ARE APPROXIMATE CONTRACTOR IS TO NOTIFY UNDERGROUND SERVICE ALERT TWO WORKING DAYS PRIOR TO STARTING ANY EXCAVATION OR RESURFACING.

CALL TOLL FREE 1-800-422-4133

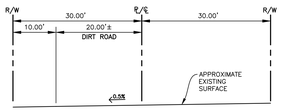
NOTE:
PROJECT NOT WITHIN COUNTY ADOPTED FLOODWAY AND NOT WITHIN FEMA FLOOD ZONE "A".



TYPICAL AVENUE K SECTION
NOT TO SCALE



TYPICAL 90TH STREET SECTION
NOT TO SCALE



TYPICAL AVENUE L STREET SECTION
NOT TO SCALE

LEGEND

- PROPERTY LINE
- RIGHT OF WAY LINE
- DRAINAGE MANAGEMENT AREA BOUNDARY
- FLOW PATH
- A / 1.0 — DRAINAGE AREA DESIGNATION / TOTAL AREA (ACRES)
- EXISTING PERVIOUS AREA
- EXISTING IMPERVIOUS AREA
- DIRECTION OF FLOW FOR SURFACE RUNOFF

HYDROLOGY PARAMTERS

0.75-inch Rainfall Depth	**0.75 inches**
Soil Type	134
Watershed	Antelope Valley
Fire Factor	0.34

Pre-Development Hydrology Table

DMA ID	Acerage	IMPERVIOUS (%)	2 YR (c.f.)	5 YR (c.f.)	10 YR (c.f.)	25 YR (c.f.)	50 Yr (c.f.)	50 Yr (cfs)
A	25.80	0.01 (0.0)	10093	15231	18622	22899	26081	1.862
B	38.13	0.01 (0.0003)	14917	22510	27521	33843	38545	2.758
C	38.49	0.01 (0.0)	15058	22723	27781	34162	38909	2.7779
D	27.42	0.01 (0.0)	10727	16188	19791	24337	27719	1.979
E	30.04	0.01 (0.0003)	11752	17734	21682	26662	30367	2.1729
F	32.24	0.01 (0.0002)	12613	19033	23270	28615	32591	2.3303
G	22.69	0.01 (0.0)	8877	13395	16377	20139	22937	1.6376
H	24.54	0.01 (0.0)	9600	14487	17712	21781	24807	1.7711

*1% IMPERVIOUS USED FOR HYDROCALC MINIMUM- ACTUAL IMPERVIOUS PERCENTAGES SHOWN IN PARENTHESIS

HYDROLOGY STUDY APPROVED
REVIEWED BY: _____ DATE 10/09/25
APPROVED BY: _____ DATE 10/09/25
COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS
LAND DEVELOPMENT DIVISION

SCALE: 1"=100'
GRAPHIC SCALE
0 100 200 300

CUP#: RPPL2024001545
PLAN CASE#: ESTU2024000461

EXISTING DRAINAGE EXHIBIT

PRONGHORN SOLAR AND STORAGE PROJECT

UNINCORPORATED LOS ANGELES COUNTY, CALIFORNIA

C-3.0
DATE: 09/26/2025

F&A
CIVIL ENGINEERING • PLANNING
CONSTRUCTION ENGINEERING
F..... ASSOCIATES, INC.
115 W. Canon Perdido Street
Santa Barbara, CA 93101
Telephone (805) 966-2224
BY: _____ DATE: 9/26/2025

REGISTERED PROFESSIONAL ENGINEER ROBERT A. SPARROW No. 71335 CIVIL STATE OF CALIFORNIA



LEGEND

- PROPERTY LINE
- RIGHT OF WAY LINE
- DRAINAGE MANAGEMENT AREA BOUNDARY
- FLOW PATH
- A / 1.0 — DRAINAGE AREA DESIGNATION / TOTAL AREA (ACRES)
- EXISTING PERVIOUS AREA
- EXISTING IMPERVIOUS AREA
- DIRECTION OF FLOW FOR SURFACE RUNOFF

NOTE:
PROJECT NOT WITHIN COUNTY ADOPTED FLOODWAY AND NOT WITHIN FEMA FLOOD ZONE "A".

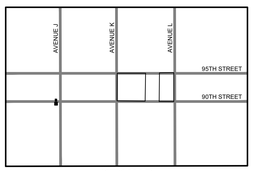
HYDROLOGY PARAMTERS

0.75-inch Rainfall Depth	**0.75 inches**
Soil Type	134
Watershed	Antelope Valley
Fire Factor	0.34

Pre-Development Hydrology Table

DMA ID	Acerage	IMPERVIOUS (%)	2 YR (c.f.)	5 YR (c.f.)	10 YR (c.f.)	25 YR (c.f.)	50 Yr (c.f.)	50 Yr (cfs)
I	0.72	0.8553	2045	3087	3774	4640	5285	0.6645
J	1.75	0.01 (0.0)	683	1031	1261	1551	1766	0.1261

*1% IMPERVIOUS USED FOR HYDROCALC MINIMUM- ACTUAL IMPERVIOUS PERCENTAGES SHOWN IN PARENTHESIS



KEY MAP
NOT TO SCALE

IMPORTANT NOTICE

ALL UTILITY LOCATIONS ARE APPROXIMATE CONTRACTOR IS TO NOTIFY UNDERGROUND SERVICE ALERT TWO WORKING DAYS PRIOR TO STARTING ANY EXCAVATION OR RESURFACING.

CALL TOLL FREE 1-800-422-4133

HYDROLOGY STUDY APPROVED

REVIEWED BY: _____ DATE 10/09/25

APPROVED BY: _____ DATE 10/09/25

COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS
LAND DEVELOPMENT DIVISION

SCALE: 1"=20'
GRAPHIC SCALE
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CUP#: RPPL2024001545
PLAN CASE#: ESTU2024000461

EXISTING DRAINAGE EXHIBIT

PRONGHORN SOLAR AND STORAGE PROJECT

UNINCORPORATED LOS ANGELES COUNTY, CALIFORNIA

C-3.1

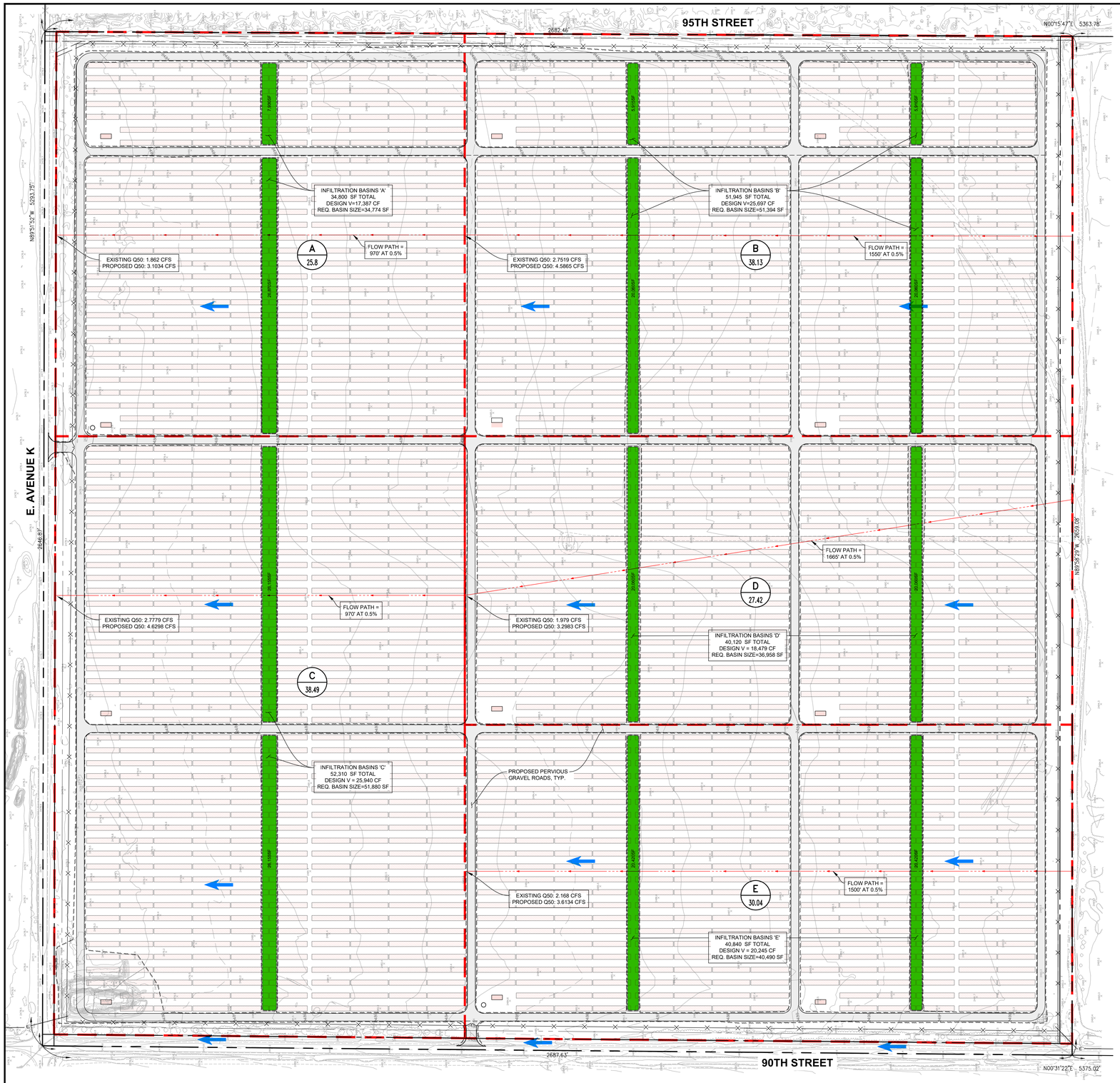
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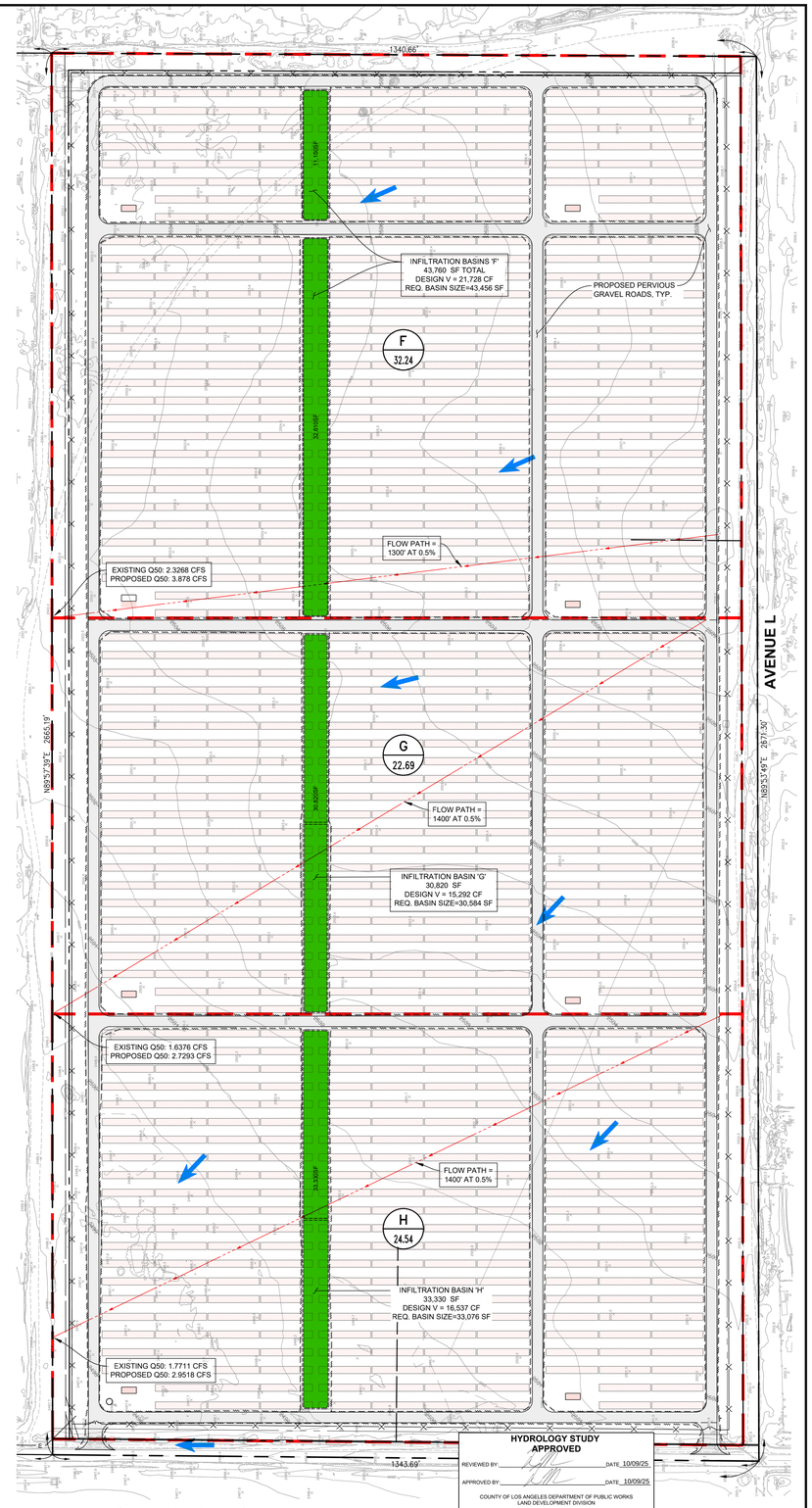
F&A — CIVIL ENGINEERING • PLANNING CONSTRUCTION ENGINEERING

FLOWERS & ASSOCIATES, INC.
115 W. Canon Perdido Street
Santa Barbara, CA 93101
Telephone (805) 966-2224

BY: _____ DATE: 9/26/2025

ROBERT A. SCHMITZ — No. 71335 — CIVIL — STATE OF CALIFORNIA





HYDROLOGY STUDY APPROVED

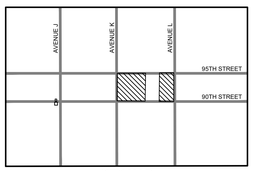
REVIEWED BY: _____ DATE 10/09/25

APPROVED BY: _____ DATE 10/09/25

COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS
LAND DEVELOPMENT DIVISION

SCALE: 1"=100'
GRAPHIC SCALE
0 100 200 300

CUP#: RPPL2024001545
PLAN CASE#: ESTU2024000461



KEY MAP
NOT TO SCALE

IMPORTANT NOTICE

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CALL TOLL FREE 1-800-422-4133

LEGEND

- PROPERTY LINE
- RIGHT OF WAY LINE
- DRAINAGE MANAGEMENT AREA BOUNDARY
- FLOW PATH
- A / 1.0 — DRAINAGE AREA DESIGNATION / TOTAL AREA (ACRES)
- PROPOSED INFILTRATION BASIN
- SD — PROPOSED STORM DRAIN PIPE
- PROPOSED PERVIOUS AREA
- PROPOSED NEW IMPERVIOUS AREA
- PROPOSED PERVIOUS GRAVEL
- DIRECTION OF FLOW FOR SURFACE RUNOFF

HYDROLOGY PARAMTERS

0.75-inch Rainfall Depth	**0.75 inches**
Soil Type	134
Watershed	Antelope Valley
Fire Factor	0.34

GENERAL NOTES:

A. FOR THE EXISTING PROJECT 50-YEAR STORM EVENT, NEGLIGIBLE INCREASES ARE ANTICIPATED FOR THE DEPTHS AND VELOCITIES DUE TO THE NEGLIGIBLE INCREASE IN PEAK FLOW RATES. THESE REPRESENT NEGLIGIBLE INCREASES FROM THE PRE-DEVELOPMENT CONDITIONS. THESE POST-DEVELOPMENT CALCULATIONS DO NOT INCLUDE THE MITIGATION EFFECTS OF THE BASINS. (TYPICAL)

B. PROJECT NOT WITHIN COUNTY ADOPTED FLOODWAY AND NOT WITHIN FEMA FLOOD ZONE "A".

C. ALL DRAINAGE FACILITIES TO BE PRIVATELY MAINTAINED.

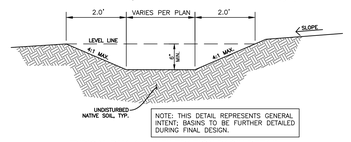
Hydrology Table

DMA ID	Acerage	PRE DEV. IMPERVIOUS (%)	POST DEV. IMPERVIOUS (%)	2 YR PRE DEV. VOLUME (CF)	2 YR POST. DEV. VOLUME (CF)	5 YR PRE DEV. VOLUME (CF)	5 YR POST. DEV. VOLUME (CF)	10 YR PRE DEV. VOLUME (CF)	10 YR POST. DEV. VOLUME (CF)	25 YR PRE DEV. VOLUME (CF)	25 YR POST. DEV. VOLUME (CF)	50 YR PRE DEV. VOLUME (CF)	50 YR POST. DEV. VOLUME (CF)	PRE-POST VOLUME DELTA (CF)	SWQDv (CF)	DESIGN VOLUME (CF)
A	25.80	0.01 (0.0)	0.10	10093	16822	15231	25386	18622	31036	22899	38165	26081	43468	17387	12543	17387
B	38.13	0.01 (0.0003)	0.10	14917	24862	22510	37517	27521	45869	33843	56405	38545	64242	25697	18542	25697
C	38.49	0.01 (0.0)	0.10	15058	25096	22723	37872	27781	46302	34162	56937	38909	64849	25940	18712	25940
D	27.42	0.01 (0.0)	0.10	10727	17878	16188	26979	19791	32985	24337	40562	27719	46198	18479	13335	18479
E	30.04	0.01 (0.0003)	0.10	11752	19587	17734	29557	21682	36137	26662	44437	30367	50612	20245	14607	20245
F	32.24	0.01 (0.0002)	0.10	12613	21021	19033	31722	23270	38783	28615	47692	32591	54319	21728	15676	21728
G	22.69	0.01 (0.0)	0.10	8877	14794	13395	22325	16377	27295	20139	33565	22937	38229	15292	11033	15292
H	24.54	0.01 (0.0)	0.10	9600	16001	14487	24146	17712	29521	21781	36301	24807	41345	16538	11932	16538

*1% IMPERVIOUS USED FOR HYDROCALC MINIMUM- ACTUAL IMPERVIOUS PERCENTAGES SHOWN IN PARENTHE
**10% MIN. IMPERVIOUS FOR SOLAR ARRAYS PER LA COUNTY
***SWQDv BASED ON 0.75" / 24-HOUR STORM



TYPICAL ACCESS ROAD DETAIL
NOT TO SCALE



TYPICAL DMA A-H INFILTRATION BASIN DETAIL
NOT TO SCALE

STORMWATER IMPROVEMENT SIZING TABLE

DMA ID	Design Volume (cf)	Impervious Area (sf)	Area Required (sf)	Area Provided (sf)
DMA A	17387	112,393	34774	34800
DMA B	25697	166,092	51394	51945
DMA C	25940	167,641	51880	52310
DMA D	18479	119,448	36958	40120
DMA E	20245	130,840	40490	40840
DMA F	21728	140,416	43456	43760
DMA G	15292	98,841	30584	30820
DMA H	16538	106,901	33078	33330

PRE AND POST DEVELOPMENT 50-YEAR PEAK FLOW RATES (CFS)

DMA ID	Pre-Development	Post-Development	Delta
A	1.862	3.1034	+1.2414
B	2.7519	4.5865	+1.8346
C	2.7779	4.6298	+1.8519
D	1.979	3.2983	+1.3193
E	2.168	3.6134	+1.4454
F	2.3268	3.878	+1.5512
G	1.6376	2.7293	+1.0917
H	1.7711	2.9518	+1.1807

PRELIMINARY STORMWATER PLAN

PRONGHORN SOLAR AND STORAGE PROJECT

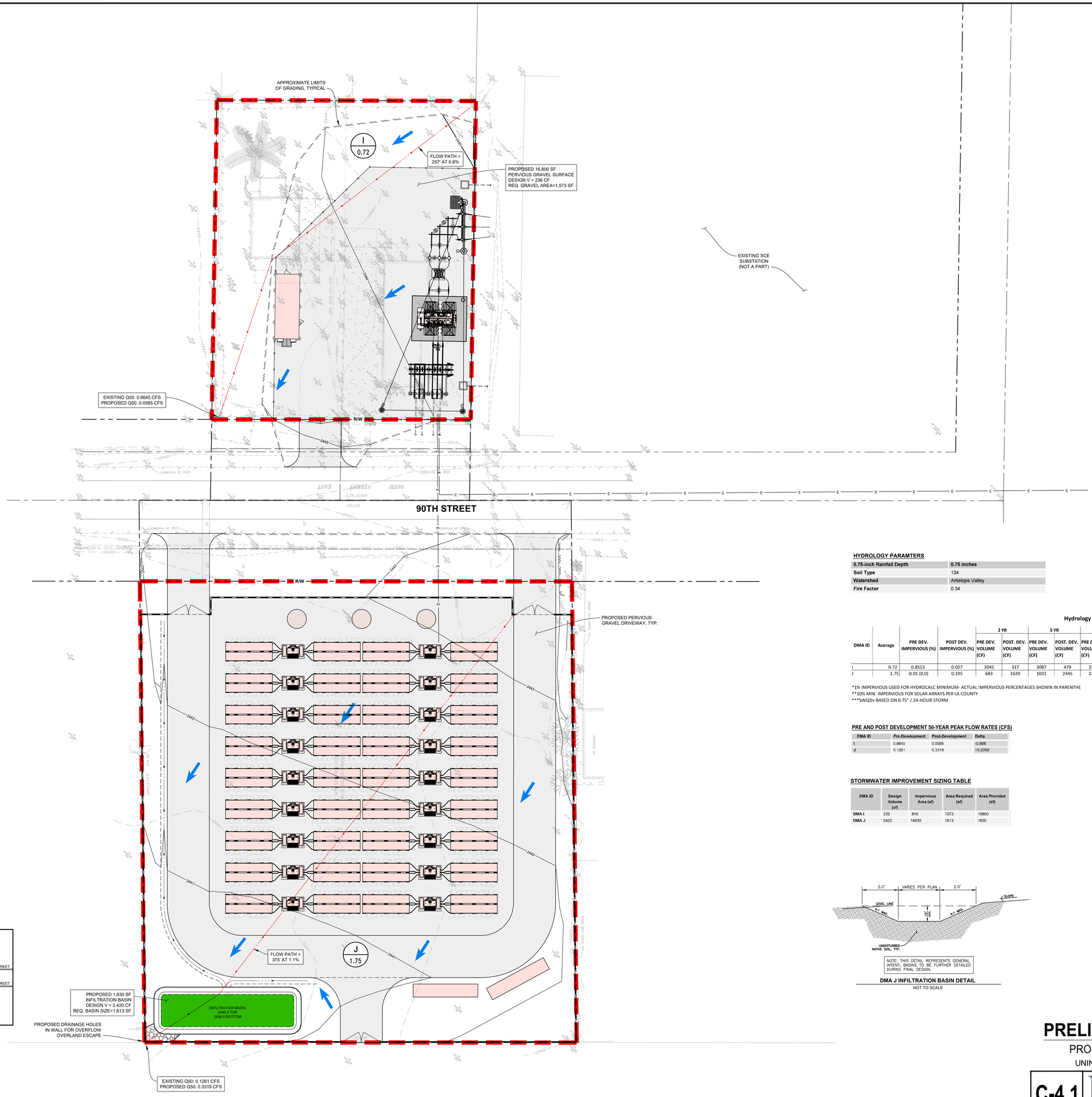
UNINCORPORATED LOS ANGELES COUNTY, CALIFORNIA

C-4.0

DATE: 09/26/2025

FLOWERS & ASSOCIATES, INC.
115 W. Canon Perdido Street
Santa Barbara, CA 93101
Telephone (805) 966-2224
CIVIL ENGINEERING • PLANNING
CONSTRUCTION ENGINEERING
BY: _____ DATE: 9/26/2025

REGISTERED PROFESSIONAL ENGINEER ROBERT A. SCHMITZ No. 71335 CIVIL STATE OF CALIFORNIA



LEGEND

- PROPERTY LINE
- RIGHT OF WAY LINE
- DRAINAGE MANAGEMENT AREA BOUNDARY
- FLOW PATH
- A / 1.0 — DRAINAGE AREA DESIGNATION / TOTAL AREA (ACRES)
- PROPOSED INFILTRATION BASIN
- SD — PROPOSED STORM DRAIN PIPE
- PROPOSED PERVIOUS AREA
- PROPOSED NEW IMPERVIOUS AREA
- PROPOSED PERVIOUS GRAVEL
- DIRECTION OF FLOW FOR SURFACE RUNOFF

GENERAL NOTES:

A. FOR THE EXISTING PROJECT 50-YEAR STORM EVENT, NEGLIGIBLE INCREASES ARE ANTICIPATED FOR THE DEPTHS AND VELOCITIES DUE TO THE NEGLIGIBLE INCREASE IN PEAK FLOW RATES. THESE REPRESENT NEGLIGIBLE INCREASES FROM THE PRE-DEVELOPMENT CONDITIONS. THESE POST-DEVELOPMENT CALCULATIONS DO NOT INCLUDE THE MITIGATION EFFECTS OF THE BASINS. (TYPICAL)
B. PROJECT NOT WITHIN COUNTY ADOPTED FLOODWAY AND NOT WITHIN FEMA FLOOD ZONE "A".
C. ALL DRAINAGE FACILITIES TO BE PRIVATELY MAINTAINED.

HYDROLOGY PARAMTERS

0.75-inch Rainfall Depth	**0.75 inches**
Soil Type	134
Watershed	Antelope Valley
Fire Factor	0.34

Hydrology Table

DMA ID	Acreage	PRE DEV. IMPERVIOUS (%)	POST DEV. IMPERVIOUS (%)	2 YR PRE DEV. VOLUME (CF)	2 YR POST. DEV. VOLUME (CF)	5 YR PRE DEV. VOLUME (CF)	5 YR POST. DEV. VOLUME (CF)	10 YR PRE DEV. VOLUME (CF)	10 YR POST. DEV. VOLUME (CF)	25 YR PRE DEV. VOLUME (CF)	25 YR POST. DEV. VOLUME (CF)	50 YR PRE DEV. VOLUME (CF)	50 YR POST. DEV. VOLUME (CF)	PRE-POST VOLUME DELTA (CF)	SWQDv (CF)	DESIGN VOLUME (CF)
I	0.72	0.8553	0.027	2045	317	3087	479	3774	585	4640	720	5285	820	-4465	236	236
J	1.75	0.01 (0.0)	0.195	683	1620	1031	2445	1261	2989	1551	3675	1766	4186	2420	1208	2420

*1% IMPERVIOUS USED FOR HYDROCALC MINIMUM- ACTUAL IMPERVIOUS PERCENTAGES SHOWN IN PARENTHE
**10% MIN. IMPERVIOUS FOR SOLAR ARRAYS PER LA COUNTY
***SWQDv BASED ON 0.75" / 24-HOUR STORM

PRE AND POST DEVELOPMENT 50-YEAR PEAK FLOW RATES (CFS)

DMA ID	Pre-Development	Post-Development	Delta
I	0.6645	0.0585	-0.606
J	0.1261	0.3319	+0.2058

STORMWATER IMPROVEMENT SIZING TABLE

DMA ID	Design Volume (cf)	Impervious Area (sf)	Area Required (sf)	Area Provided (sf)
DMA I	236	840	1573	16800
DMA J	2420	14835	1613	1630

NOTE: THIS DETAIL REPRESENTS GENERAL INTENT; BASINS TO BE FURTHER DETAILED DURING FINAL DESIGN.

DMA J INFILTRATION BASIN DETAIL
NOT TO SCALE

HYDROLOGY STUDY APPROVED
REVIEWED BY: _____ DATE: 10/09/25
APPROVED BY: _____ DATE: 10/09/25
COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS
LAND DEVELOPMENT DIVISION

SCALE: 1"=20'
GRAPHIC SCALE
0 20 40 60

CUP#: RPPL2024001545
PLAN CASE#: ESTU2024000461



KEY MAP
NOT TO SCALE

IMPORTANT NOTICE

ALL UTILITY LOCATIONS ARE APPROXIMATE CONTRACTOR IS TO NOTIFY UNDERGROUND SERVICE ALERT TWO WORKING DAYS PRIOR TO STARTING ANY EXCAVATION OR RESURFACING.

CALL TOLL FREE 1-800-422-4133

PRELIMINARY STORMWATER PLAN

PRONGHORN SOLAR AND STORAGE PROJECT

UNINCORPORATED LOS ANGELES COUNTY, CALIFORNIA

C-4.1
DATE: 09/26/2025

FLOWERS & ASSOCIATES, INC.
115 W. Canon Perdido Street
Santa Barbara, CA 93101
Telephone (805) 966-2224
CIVIL ENGINEERING • PLANNING
CONSTRUCTION ENGINEERING
BY: _____ DATE: 9/26/2025
PROFESSIONAL ENGINEER — ROBERT A. SPARKS — No. 71335 — CIVIL — STATE OF CALIFORNIA

Appendix H

Noise and Vibration Assessment

DRAFT

MEMORANDUM

To:	Pronghorn Solar Plus, LLC
From:	Nick Segovia (Dudek)
Subject:	Pronghorn Solar and Storage Project Noise and Vibration Technical Memorandum
Date:	September 29, 2025
cc:	Jonathan Leech, INCE (Dudek); Katelin Pederson (Dudek); Erin Phillips (Dudek); Mark Storm, INCE Bd. Cert. (Dudek); Carson Wong (Dudek)
Attachment(s):	Figure 1 – Project Location Figure 2 – Baseline Outdoor Ambient Noise Measurement Locations Figure 3 – Predicted Stationary Source Operation Noise from Proposed Project BESS and Substation Figure 4 – Predicted Stationary Source Operation Noise from Proposed Project PV Solar Facility Attachment A – Baseline Measurement Field Notes Attachment B – Construction Noise Prediction Model Worksheets Attachment C – Operation Noise Prediction Model Inputs

Dudek is pleased to present Pronghorn Solar Plus, LLC (Applicant) with the following noise and vibration technical memorandum for the proposed Pronghorn Solar and Storage Project (Project) located near the intersection of 90th Street East and East Avenue L, approximately 10 miles east of State Route 14, in unincorporated Los Angeles County in the Antelope Valley (County) (Project Site). This memorandum (memo) presents quantitative estimates of Project onsite construction and post-construction operational noise emission to the surrounding sound environment, which consists of existing residential and agricultural zoned parcels near the Project Site. Construction vibration is also estimated, along with traffic noise impacts, using Federal Transit Administration (FTA) techniques. The potential for significant impacts from construction and operation of the Project is assessed in accordance with the California Environmental Quality Act (CEQA) Guidelines and considers relevant County noise regulations. The contents and organization of this memorandum are as follows: Executive Summary, Project Description, Assessment Framework, Impact Assessment, Conclusions, and References Cited.

1 Executive Summary

As analyzed herein, potential Project construction and operation-related noise and vibration impacts to the surrounding community would be considered less than significant on the basis of compliance with the County of Los Angeles standards and FTA guidance. Post-construction Project operation noise is predicted to comply with the County standards described as an A-weighted energy-averaged hourly ($L_{eq[h]}$) exterior noise level of 50 dBA from 7:00 a.m. to 10:00 p.m. and 45 dBA from 10:00 p.m. to 7:00 a.m. at the nearest noise-sensitive receptors located in unincorporated Los Angeles County (County of Los Angeles 2024). Project-attributed construction noise and ground-borne vibration exposure levels at the nearest noise-sensitive receptor locations--residences approximately 210 feet north of the Project BESS area, approximately 100 feet north of the substation area, and approximately 1,390 feet northwest of the PV solar facility--are predicted to be below the County's construction noise limits for both mobile and stationary equipment, per Section 12.08.440 of the County Code of Ordinances.

2 Project Description

The project is a utility-scale photovoltaic (PV) solar energy generation and battery energy storage system (BESS) within unincorporated Los Angeles County, California in the Antelope Valley. The Project would have up to a 50-megawatt (MW) PV solar power generation capacity, and the associated BESS would have up to a 50 MW power storage capacity. The Project will include construction of collection lines and a Project substation, which will connect the Project to the existing Southern California Edison (SCE) Piute Substation. A generation transmission (gen-tie) line will directly connect the Project substation to the existing SCE Piute Substation.

The topography of the Project area is relatively flat, consisting primarily of fields and roads. The PV facility parcels have been extensively cleared, plowed, and maintained for agricultural production. The BESS facility parcel is undeveloped land, and the Project substation parcel is developed with existing structures.

3 Assessment Framework

3.1 Acoustical Fundamentals

The following subsections provide the reader a summary of acoustical terminology and concepts that the subsequent analyses will use to evaluate potential noise and vibration impacts associated with the Project.

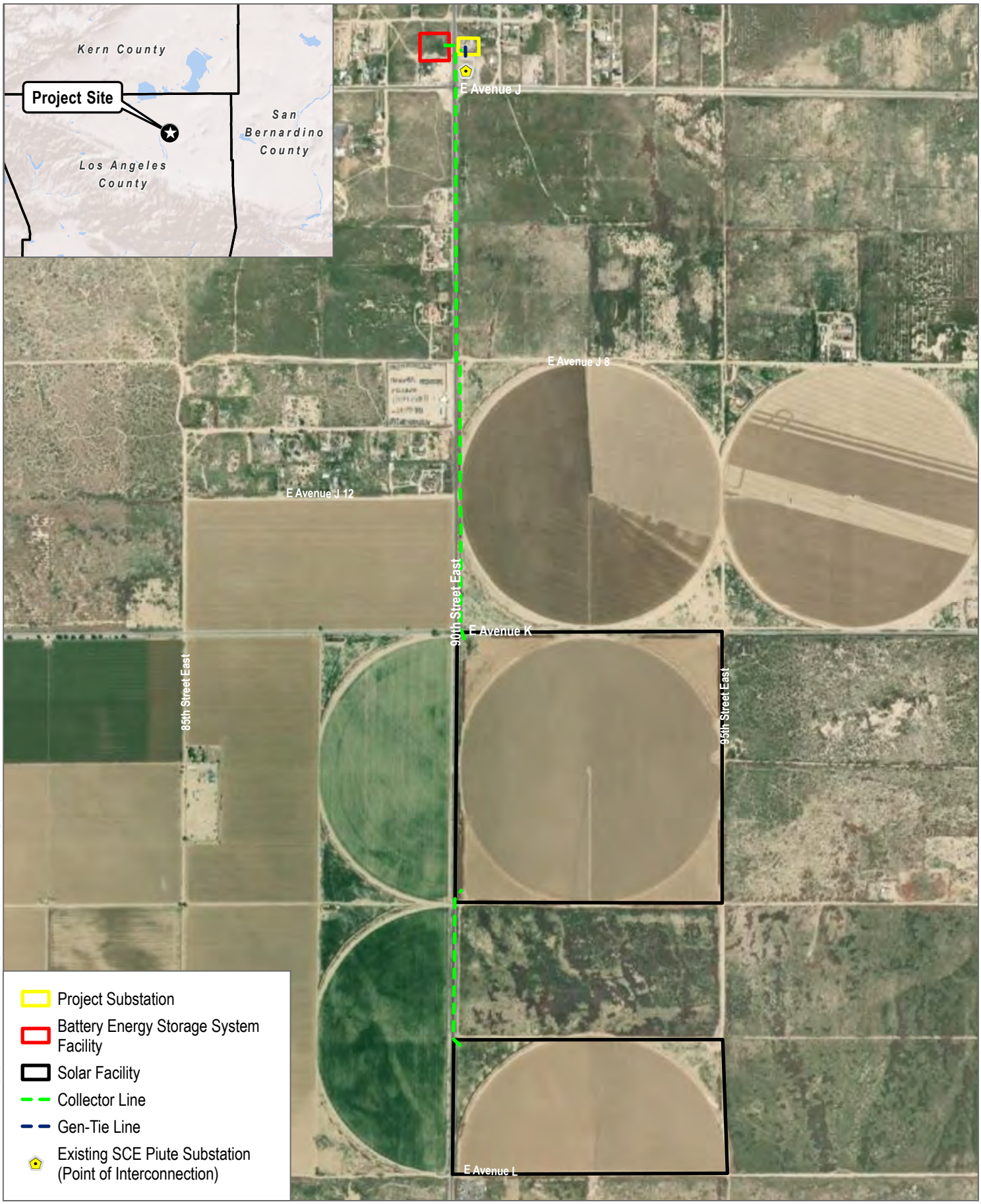
3.1.1 Sound, Noise, and Acoustics

Sound can be described as the mechanical energy of a vibrating object transmitted by pressure waves through a liquid or gaseous medium (e.g., air) to a hearing organ, such as a human ear. Noise is defined as loud, unexpected, or annoying sound.

In the science of acoustics, the fundamental model consists of a sound (or noise) source, a receptor, and the propagation path between the two. The loudness of the noise source and obstructions or atmospheric factors affecting the propagation path to the receptor determine the sound level and characteristics of the noise perceived by the receptor. The field of acoustics deals primarily with the propagation and control of sound.

Frequency

Continuous sound can be described by frequency (pitch) and amplitude (loudness). A low-frequency sound is perceived as low in pitch. Frequency is expressed in terms of cycles per second, or Hertz (Hz) (e.g., a frequency of 250 cycles per second is referred to as 250 Hz). High frequencies are sometimes more conveniently expressed in kilohertz (kHz), or thousands of Hertz. The audible frequency range for humans is generally between 20 Hz and 20,000 Hz.



SOURCE: World Imagery

DUDEK

0 500 1,000 Feet

FIGURE 1

Project Location

Pronghorn Solar and Storage Project

Sound Pressure Levels and Decibels

The amplitude of pressure waves generated by a sound source determines the loudness of that source. Sound pressure amplitude is measured in micro-Pascals (µPa). One µPa is approximately one hundred billionth (0.00000000001) of normal atmospheric pressure. Sound pressure amplitudes for different kinds of noise environments can range from less than 100 to 100,000,000 µPa. Because of this huge range of values, sound is rarely expressed in terms of µPa. Instead, a logarithmic scale is used to describe sound pressure level (SPL) in terms of decibels (dB). The threshold of hearing for young people is about 0 dB, which corresponds to 20 µPa.

Addition of Decibels

Because decibels are logarithmic units, SPL cannot be added or subtracted through ordinary arithmetic. Under the decibel scale, a doubling of sound energy corresponds to a 3-dB increase. In other words, when two identical sources are each producing sound of the same loudness, the resulting sound level at a given distance would be 3 dB higher than one source under the same conditions. For example, if one automobile produces an SPL of 70 dB when it passes an observer, two cars passing simultaneously would not produce 140 dB—rather, they would combine to produce 73 dB. Under the decibel scale, three sources of equal loudness together produce a sound level 5 dB louder than one source.

A-weighted Decibels

The decibel scale alone does not adequately characterize how humans perceive noise. The dominant frequencies of a sound have a substantial effect on the human response to that sound. Although the intensity (energy per unit area) of the sound is a purely physical quantity, the loudness or human response is determined by the characteristics of the human ear.

Human hearing is limited in the range of audible frequencies as well as in the way it perceives the SPL in that range. In general, people are most sensitive to the frequency range of 1,000–8,000 Hz and perceive sounds within that range better than sounds of the same amplitude in higher or lower frequencies. To approximate the response of the human ear, sound levels of individual frequency bands are weighted, depending on the human sensitivity to those frequencies. Then, an "A-weighted" sound level (expressed in units of dBA) can be computed based on this information.

The A-weighting network approximates the frequency response of the average young ear when listening to most ordinary sounds. When people make judgments of the relative loudness or annoyance of a sound, their judgments correlate well with the A-scale sound levels of those sounds. Other weighting networks have been devised to address high noise levels or other special problems (e.g., B-, C-, and D-scales), but these scales are rarely used in conjunction with environmental noise. Noise levels for environmental noise reports are typically reported in terms of A-weighted decibels or dBA. Table 1 describes typical A-weighted noise levels for various noise sources.

Table 1. Typical A-Weighted Noise Levels for Common Indoor and Outdoor Sources

Common Outdoor Activities	Noise Level (dBA)	Common Indoor Activities
Diesel truck at 50 feet at 50 mph	85	Food blender at 3 feet
	80	Garbage disposal at 3 feet
Noisy urban area, daytime	75	—
Gas lawn mower, 100 feet	70	Vacuum cleaner at 10 feet
Commercial area	65	Normal speech at 3 feet
Heavy traffic at 300 feet	60	—
	55	Large business office
Quiet urban daytime	50	Dishwasher next room
	45	—
Quiet urban nighttime	40	Theater, large conference room (background)
Quiet suburban nighttime	35	—
	30	Library
Quiet rural nighttime	25	Bedroom at night, concert hall (background)

Source: Caltrans 2013.

Human Response to Changes in Noise Levels

As discussed above, doubling sound energy results in a 3-dB increase in sound. However, given a sound level change measured with precise instrumentation, the subjective human perception of a doubling of loudness will usually be different than what is measured.

Under controlled conditions in an acoustical laboratory, the trained, healthy human ear is able to discern 1-dB changes in sound levels, when exposed to steady, single-frequency ("pure-tone") signals in the mid-frequency (1,000 Hz–8,000 Hz) range (Caltrans 2013). In typical noisy environments, changes in noise of 1 to 2 dB are generally not perceptible. However, it is widely accepted that people are able to begin to detect sound level increases of 3 dB in typical noisy environments. Further, a 5-dB increase is generally perceived as a distinctly noticeable increase, and a 10-dB increase is generally perceived as a doubling of loudness (Caltrans 2013). Therefore, a doubling of sound energy (e.g., doubling the volume of traffic on a highway) that would result in a 3-dB increase in sound, would generally be perceived as barely detectable by average healthy human hearing.

Noise Descriptors

Noise in our daily environment fluctuates over time at varying rates. Various noise descriptors have been developed to describe time-varying noise levels. The following are the noise descriptors utilized in this analysis.

- **Equivalent Sound Level** (L_{eq}): L_{eq} represents an energy average of the sound level occurring over a specified period. The 1-hour A-weighted equivalent sound level ($L_{eq[h]}$) is the energy average of A-weighted sound levels occurring during a one-hour period and is the basis for noise abatement criteria (NAC) used by Caltrans and the Federal Highway Administration (FHWA). Note that L_{eq} is not an arithmetic average of varying dB levels over a period of time, L_{eq} uses a logarithmic equation for averaging of the energy levels and therefore accounts for greater sound energy represented by higher decibel contributions.

- **Percentile-Exceeded Sound Level** (L_{xx}): L_{xx} represents the sound level exceeded for a given percentage of a specified period (e.g., L_{10} is the sound level exceeded 10% of the time, and L_{90} is the sound level exceeded 90% of the time).
- **Maximum Sound Level** (L_{max}): L_{max} is the highest instantaneous sound level measured during a specified period.
- **Day-Night Level** (L_{dn}): L_{dn} is the energy average of A-weighted sound levels occurring over a 24-hour period, with a 10-dB penalty applied to each of the A-weighted hourly sound levels ($L_{eq[h]}$) occurring during nighttime hours between 10 p.m. and 7 a.m.
- **Community Noise Equivalent Level** (CNEL): Similar to L_{dn}, CNEL is the energy average of the A-weighted sound levels occurring over a 24-hour period, with a 10-dB penalty applied to each of the A-weighted hourly sound levels ($L_{eq[h]}$) occurring during the nighttime hours between 10 p.m. and 7 a.m., and a 5-dB penalty applied to each of the A-weighted hourly sound levels ($L_{eq[h]}$) occurring during evening hours between 7 p.m. and 10 p.m.

Sound Propagation

When sound propagates over a distance, it changes in level and frequency content. The manner in which noise reduces with distance depends on the following factors.

- **Geometric Spreading** – Sound from a localized source (i.e., an ideal point source) propagates uniformly outward in a spherical pattern (or hemispherical when near a surface). The sound level attenuates (or decreases) at a rate of 6 dB for each doubling of distance from a point source. Roadways consist of several localized noise sources on a defined path, and hence can be treated as a line source, which approximates the effect of several point sources. Noise from a line source propagates outward in a cylindrical pattern, often referred to as cylindrical spreading. Sound levels attenuate at a rate of 3 dB for each doubling of distance from a line source.
- **Ground Absorption** – The propagation path of noise from a sound emission source to a receptor is usually horizontal and proximate to the ground. Under these conditions, noise attenuation from ground absorption and reflective wave canceling can add to the attenuation associated with geometric spreading. For acoustically "hard" paths over which sound may traverse (i.e., sites with a reflective surface between the source and the receptor, such as a parking lot or body of water), no excess ground attenuation is assumed. For acoustically absorptive or "soft" sites (i.e., those sites with an absorptive ground surface between the source and the receptor, such as fresh-fallen snow, soft dirt, or dense vegetative ground cover), an additional ground-attenuation value of 1.5 dB per doubling of distance is normally assumed. When added to cylindrical spreading for line source sound propagation, the excess ground attenuation results in an overall drop-off rate of 4.5 dB per doubling of distance.
- **Atmospheric Effects** – Receptors located downwind from a source can be exposed to increased noise levels relative to calm conditions, whereas locations upwind can have lowered noise levels. Sound pressure levels can also be increased at large distances (e.g., more than 500 feet) due to atmospheric temperature inversion (i.e., increasing temperature with elevation). Other factors such as air temperature, humidity, and turbulence can also have significant effects when distances between a source and receptor are large.
- **Shielding by Natural or Human-Made Features** – A large object or barrier in the path between a noise source and a receptor can substantially attenuate noise levels at the receptor. The amount of attenuation provided by shielding depends on the size of the object and the frequency content of the noise source. Natural terrain

features (e.g., hills and dense woods) and human-made features (e.g., buildings and walls) can substantially reduce noise levels. Walls are often constructed between a source and a receptor specifically to reduce noise. A barrier that breaks the line of sight between a source and a receptor will typically result in at least 5 dB of noise reduction. Taller barriers provide increased noise reduction. While a line of trees may visually occlude the direct line between a source and a receptor, its actual noise-reducing effect is usually negligible because it does not create a solid barrier. Deep expanses of dense wooded areas, on the other hand, can offer noise reduction under the right conditions.

3.1.2 Vibration Characteristics

Vibration is oscillatory movement of mass (typically a solid) over time. It is described in terms of frequency and amplitude and, unlike sound, can be expressed as displacement, velocity, or acceleration. For environmental studies, vibration is often studied as a velocity that, akin to the discussion of sound pressure levels, can also be expressed in dB as a way to cast a large range of quantities into a more convenient scale. Vibration impacts to buildings are generally discussed in terms of inches per second (ips) peak particle velocity (PPV), and the potential for annoyance to occupants within those buildings is evaluated with root-mean-square (rms) vibration velocity decibels (VdB), which are calculated from PPV and application of a crest factor (CF) with the following expression (FTA 2018):

$$L_v = 20*LOG(PPV/[CF*V_{ref}]) = 20*LOG(PPV/[4*0.000001])$$

Common sources of vibration within communities include construction activities and railroad operations. Ground-borne vibration generated by construction projects is usually highest during pile driving, rock blasting, soil compacting, jack hammering, and demolition-related activities where sudden releases of subterranean energy or powerful impacts of tools on hard materials occur. Depending on their distances to a sensitive receptor, operation of large bulldozers, graders, loaded dump trucks, or other heavy construction equipment and vehicles on a construction site also have the potential to cause high vibration amplitudes.

3.2 Environmental Setting

The PV facility is located adjacent to 90th Street E and East Avenue K and is surrounded by agricultural uses. The BESS and Project substation are located adjacent to the SCE Piute Substation, 90th Street E and East Avenue J, and existing low-density residences and undeveloped land. Consequently, noise sources affecting noise levels on the Project site and in the vicinity will mainly include vehicular traffic from nearby roadways and existing agricultural operations.

3.2.1 Studied Sensitive Receptors

Noise- and vibration-sensitive land uses are locations where people reside or where the presence of unwanted sound could adversely affect the use of the land. Residences, schools, hospitals, guest lodging, libraries, and some passive recreation areas typically are considered noise- and vibration-sensitive receptors and may warrant unique measures for protection from intruding noise. Based on this understanding, the noise-sensitive receptors nearest to the PV facility are residences approximately 0.3 miles to the northwest, at the intersection of 90th Street East and East Avenue J 12, within unincorporated County jurisdiction that abuts land within the City of Lancaster, California that geographically separates it from the proposed Project Site. The nearest noise-sensitive receptors to

the BESS and Project substation are residences along East Pilsbury Street, Graphic Street, and 90th Street East, north of the existing SCE Piute Substation.

3.2.2 Measured Outdoor Ambient Sound

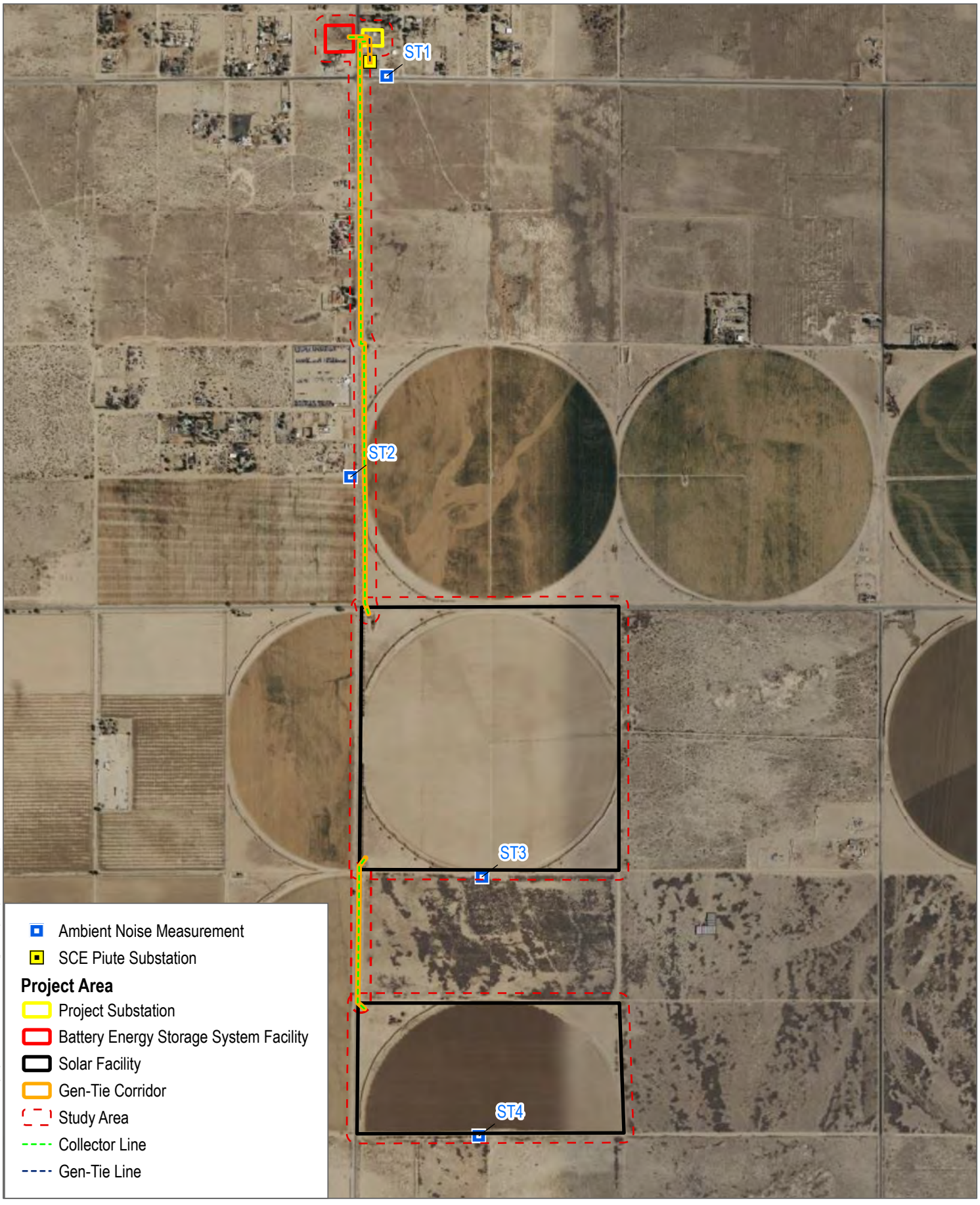
Field measurements of sound pressure level (SPL) were conducted near the Project Site on March 28, 2024, to quantify and characterize the existing outdoor ambient sound levels. Table 2 provides the location, date, and time period at which these baseline noise level measurements were performed by an attending Dudek field investigator using a Rion-branded Model NL-52 sound level meter (SLM) equipped with a 0.5-inch, pre-polarized condenser microphone with pre-amplifier. The SLM meets the current American National Standards Institute standard for a Type 1 (Precision Grade) sound level meter. The accuracy of the SLM was verified using a field calibrator before and after the measurements, and the measurements were conducted with the microphone positioned approximately 5 feet above the ground.

As shown in Table 2, four (4) short-term (ST) noise level measurement locations that represent nearby commercial land uses (ST1), existing noise-sensitive receivers (ST2), and agricultural land uses surrounding the project (ST3 and ST4), were selected near the Project Site to quantify and characterize the representative existing outdoor ambient noise environment of the area. These locations are depicted as receivers ST1–ST4 in Figure 2, Baseline Outdoor Ambient Noise Measurement Locations. The measured L_{eq} and L_{max} noise levels recorded at the ST locations are provided in Table 2. The primary noise sources at the sites identified in Table 2 consisted of traffic along adjacent roadways, aircraft noise, the sounds of leaves rustling, and birdsong. As shown in Table 2, the measured SPL ranged from approximately 51.4 dBA L_{eq} at ST3 to 63.6 dBA L_{eq} at ST4. Beyond the summarized information presented in Table 2, detailed noise measurement data is included in Attachment A, Baseline Noise Measurement Field Data.

Table 2. Measured Baseline Outdoor Ambient Noise Levels

Site Position Tag	Location or Address	Date (yyyy-mm-dd), Time (hh:mm)	L_{eq} (dBA)	L_{max} (dBA)
ST1	North of Project Site along East Avenue J	2024-03-28, 10:43 AM to 10:58 AM	59.4	74.7
ST2	Northwest of Project Site at the intersection of 90th Street East and East Avenue J 12	2024-03-28, 11:03AM to 11:18 AM	63.6	80.5
ST3	South of Project Site Boundary along East Avenue K 8	2024-03-28, 11:23 PM to 11:38 PM	51.4	67.4
ST4	South of Project Site Boundary along East Avenue L	2024-03-28, 11:44 PM to 11:59 PM	54.2	74.9

Source: Attachment A, Dudek 2024.
Notes: L_{eq}= equivalent continuous sound level (time-averaged sound level); L_{max}= maximum sound level during the measurement interval; dBA = A-weighted decibels; ST = short-term noise measurement locations.



SOURCE: ESRI 2024

DUDEK

0 500 1,000 Feet

FIGURE 2

Baseline Outdoor Ambient Noise Measurement Locations

Pronghorn Solar Storage Project

3.3 Regulatory Setting

3.3.1 Federal Regulations and Guidance

Federal Transit Administration

In its Transit Noise and Vibration Impact Assessment guidance manual, the FTA recommends a daytime construction noise level threshold of 80 dBA L_{eq} over an 8-hour period (FTA 2018) when detailed construction noise assessments are performed to evaluate potential impacts to community residences surrounding a project. Although this FTA guidance is not a regulation, it can serve as a quantified standard in the absence of such noise limits at the state and local jurisdictional levels.

With respect to vibration, Table 3 presents FTA guidance thresholds for assessing building damage risk and human annoyance. Akin to the aforementioned guidance for airborne noise from construction activities, the values in Table 3 represent recommended assessment guidance when local regulations lack such standards.

Table 3. Federal Transit Administration Vibration Threshold Guidance

Vibration Receptor	Vibration Assessment Metric	
	Peak Particle Velocity (PPV, in/sec)	Approximate Root Mean Square VdB*
Potential Damage to Structures by Building/Structural Category		
I. Reinforced-concrete, steel or timber (no plaster)	0.5	102
II. Engineered concrete and masonry (no plaster)	0.3	98
III. Non-engineered timber and masonry buildings	0.2	94
IV. Buildings extremely susceptible to vibration damage	0.12	90
Residential Building Occupant Human Response		
Frequent events *(more than 70 events per day)*		72
Occasional events *(30-70 events per day)*		75
Infrequent events *(fewer than 30 events per day)*		80
Institutional Land Use (Primarily Daytime Use) Occupant Human Response		
Frequent events *(more than 70 events per day)*		75
Occasional events *(30-70 events per day)*		78
Infrequent events *(fewer than 30 events per day)*		83

Source: FTA 2018
Notes:
* root mean square (rms) vibration level in decibels (VdB) is calculated from the PPV using a crest factor of 4 and is with respect to one (1) micro-inch per second.

3.3.2 State Guidance

The California Department of Transportation (Caltrans) Transportation and Construction Vibration Guidance Manual (Caltrans 2020) offers guidance comparable to aforementioned FTA guidance presented in Table 3, but includes recommended thresholds (expressed as PPV) for building damage risk and occupant annoyance that distinguish between "transient" sources (e.g., detonation of explosive charges or a dropped ball during building demolition) and "continuous" or "frequently intermittent" vibration sources. The latter of these Caltrans vibration occurrence categories would be comparable to the "frequent" and "occasional" FTA event frequency categories appearing in Table 3.

3.3.3 Local Regulations and Guidance

County of Los Angeles Noise Regulations

Section 12.08.440 of the County of Los Angeles Code of Ordinances addresses construction noise restrictions. Construction activity is prohibited between the hours of 7:00 p.m. and 7:00 a.m. Monday through Saturday and all day on Sundays, where the noise would create a disturbance across a residential property line. For single-family residences, that disturbance noise level overnight is defined as greater than 50 dBA (for construction with a duration greater than 10 days). For construction lasting less than 10 days, or when "mobile" construction equipment is in use, the daytime (i.e., between 7:00 a.m. and 7:00 p.m.) limit for noise exposure at a single-family residential property affected by the construction noise is 75 dBA. For construction lasting longer than 10 days, or when "stationary" construction equipment is in use, the daytime limit for noise exposure at a single-family residential property affected by the construction noise is 60 dBA (County of Los Angeles 1978).

Section 12.08.390 of the County of Los Angeles Code of Ordinances establishes the maximum exterior noise level that may be generated within each of five designated noise zones. The noise zone descriptions and allowable exterior noise limits from LA County Code 12.08.390 are translated into the County Noise Element as Table 11.2 (reproduced here as Table 4).

The Los Angeles County General Plan was adopted by the Board of Supervisors on October 6, 2015. The Noise Element establishes noise generation limits for each land use type and provides noise management policies to protect residents from excessive noise exposure. The County adapted the State of California's Office of Planning and Research (OPR) Land Use Compatibility for Community Noise Environments Matrix to develop the County's exterior noise standards, as shown in Table 4. By controlling the noise generation from individual properties within a given land use designation (or zone district), all uses should be afforded protection against excessive noise exposure.

With respect to durable sources of groundborne vibration, such as the operation of installed electro-mechanical equipment on a site, the Los Angeles County Code (Section 12.08.560) also specifies that operating or permitting the operation of any device that creates vibration which is above the vibration perception threshold of any individual at or beyond the property boundary of the source if on private property, or at 150 feet (46 meters) from the source if on a public space or public right-of-way, is prohibited. The perception threshold shall be a vibration velocity of 0.01 in/sec over the range of 1 to 100 Hz.

Table 4. Los Angeles County Community Noise Criteria (in dBA)

Noise Zone	Land Use of Receptor Property	Time	Std 1	Std 2	Std 3	Std 4	Std 5
			L50	L25	L8.3	L1.7	L0
			(30 min/hr)	(15 min/hr)	(5 min/hr)	(1 min/hr)	(at no time)
I	Noise Sensitive [a]	Anytime	45	50	55	60	65
II	Residential [b]	10:00 p.m.–7:00 a.m.	45	50	55	60	65
		7:00 a.m.–10:00 p.m.	50	55	60	65	70
III	Commercial	10:00 p.m.–7:00 a.m.	55	60	65	70	75
		7:00 a.m.–10:00 p.m.	60	65	70	75	80
IV	Industrial	Anytime	70	75	80	85	90

Source: County of Los Angeles 1978.

Notes: Std = Standard; min = minutes; hr = hour

[a] Noise sensitive zones are designated by the County Health Officer and are required to be clearly identified with posted signs, such as hospital facilities.

[b] Residential includes single family and multiple family dwellings, but excludes transient lodging

Section 12.08.390 of the County of Los Angeles Code of Ordinances stipulates that if the ambient noise level (as defined by the L_{50} value from an ambient noise measurement) exceeds the Standard 1 noise level allowance, the measured L_{50} becomes the Standard 1 allowance.

The following policies from the County's General Plan Noise Element (Chapter 11) may be applicable to the Proposed Project (County of Los Angeles 2015):

- **Policy N 1.1:** Utilize land uses to buffer noise-sensitive uses from sources of adverse noise impacts.
- **Policy N 1.2:** Reduce exposure to noise impacts by promoting land use compatibility.
- **Policy N 1.3:** Minimize impacts to noise-sensitive land uses by ensuring adequate site design, acoustical construction, and use of barriers, berms, or additional engineering controls through Best Available Technologies (BAT).

3.4 Thresholds of Significance

The following significance criteria, included for analysis in this acoustical assessment, are based on Appendix G of the CEQA Guidelines (14 California Code of Regulations [CCR] 15000 et seq.), and will be used to determine the significance of potential noise impacts. Noise impacts would be significant if the Project would:

A. Result in generation of a substantial temporary or permanent increase in ambient noise levels in the vicinity of the project in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies;
B. Result in generation of excessive ground-borne vibration or ground-borne noise levels; and
C. For a project located within the vicinity of a private airstrip or an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, result in exposure of people residing or working in the project area to excessive noise levels.

The above generalized thresholds guided the establishment of quantitative thresholds of significance for the purposes of this analysis based on the local policies and regulations described in Section 3.3, and are listed below.

- Construction Noise – The Project Site is located within unincorporated Los Angeles County, and the nearest offsite noise-sensitive receptors to the Project are residential land uses within unincorporated Los Angeles County. For residential land uses in unincorporated Los Angeles County, assuming construction activities take place between the hours of 7:00 a.m. and 7:00 p.m., construction noise levels must adhere to a 75 dBA limit for mobile equipment and 60 dBA for stationary equipment, as established in Section 12.08.440 of the County of Los Angeles Code of Ordinances.

- Construction Vibration – For building damage risk to these existing offsite residential buildings, the threshold would be 0.3 inches per second PPV per Caltrans guidance with respect to continuous or intermittent sources (e.g., construction activities). The building occupant annoyance threshold within such a structure would be 0.2 inches per second PPV or 94 VdB.

- Project-attributed Stationary Source Noise Emission to the Community – Because the nearest offsite noise-sensitive receptors to the Project are residences within the limits of unincorporated Los Angeles County, Project-attributed stationary source noise must adhere to the maximum exterior noise levels for residential land uses of 50 dBA from 7:00 a.m. to 10:00 p.m. and 45 dBA from 10:00 p.m. to 7:00 a.m., per Section 12.08.390 of the County of Los Angeles Code of Ordinances.

- Off-Site Traffic Noise Exposure – For purposes of this analysis, a direct roadway noise impact would be considered significant if increases in roadway traffic noise levels attributed to the Proposed Project were greater than 3 dBA CNEL at an existing noise-sensitive land use.

- Exposure of Project Workers or Visitors to Excessive Aviation Noise – Typically, project areas where outdoor workers or visitors may be present that intersects the 65 dBA CNEL aviation noise contour of a public or private airport would be considered a potentially significant noise impact.

4 Impact Assessment

4.1 Approach and Methodology

4.1.1 Construction Noise

The following summarized methodology and assumptions were adopted to reasonably estimate aggregate Project-attributed construction noise exposure at the following nearest offsite unincorporated County noise-sensitive receptors, nearest to the construction of the Project BESS, substation, and PV solar facility, respectively: 1) an existing residence approximately 210 feet north of the BESS area boundary, 2) an existing residence approximately 100 feet north of the substation boundary, and 3) an existing home approximately 1,390 feet northwest of the PV solar facility boundary, at the intersection of East Avenue J 12 and 90th Street East.

The predictive analysis herein locates multiple sound-emitting sources (i.e., operating stationary and mobile equipment) associated with each distinct construction phase as close as the nearest respective Project facility boundaries with respect to the noise-sensitive receptor positions. This approach is conservative and "worst case", as construction equipment would normally be operating across the entire Project Site as construction work proceeds. Only under a "worst case" would multiple pieces of heavy construction equipment be concurrently operating as close as, for example, 100 feet to the noise-sensitive receptor at the intersection of East Pilsbury Street and 90th Street East, nearest to the Project substation.

The construction activities that are expected to occur, grouped by phase, are shown in Table 5.

Table 5. Construction Scenario Assumptions

Construction Phase	Equipment		
	Equipment Type	Quantity	Usage Hours
Phase 1: Site Preparation, Fencing, and Ingress/Egress	Crawler Tractors	1	5
	Graders	1	6
	Off-Highway Trucks	1	7
	Plate Compactors	1	4
	Rubber-Tired Loaders	1	8
	Scrapers	1	4
Phase 2: Civil Improvements – Grading/Roads/ Earthwork	Crawler Tractors	1	8
	Graders	1	6
	Off-Highway Trucks	1	7
	Plate Compactors	1	4
	Rubber-Tired Loaders	2	5
	Scrapers	1	4
Phase 3: PV Panel and BESS Construction	Air Compressors	1	8
	Crawler Tractors	1	4
	Generator Sets	2	8
	Other Construction Equipment	1	2
	Rough Terrain Forklifts	2	5
	Rubber-Tired Loaders	2	5
	Trenchers	2	5

Table 5. Construction Scenario Assumptions

Construction Phase	Equipment		
	Equipment Type	Quantity	Usage Hours
	Vibratory Post Drivers	1	4
Phase 4: Testing and Commissioning	N/A (equipment and processes are not expected to involve heavy equipment like the other phases of construction activity)	N/A	N/A
Phase 5: Decommissioning and Reclamation	Air Compressors	1	8
	Crawler Tractors	1	4
	Generator Sets	2	8
	Other Construction Equipment	1	2
	Rough Terrain Forklifts	2	5
	Rubber-Tired Loaders	2	5
	Trenchers	2	5
	Vibratory Post Drivers	1	4

Source: Dudek 2025.

The typical maximum noise levels for various pieces of construction equipment at a distance of 50 feet are presented in Table 6, Typical Construction Equipment Maximum Noise Levels. Note that the equipment noise levels presented in Table 6 are maximum noise levels. Usually, construction equipment operates in alternating cycles of full power and low power, producing average noise levels over time that are less than the maximum noise level. The average sound level of construction activity also depends on the amount of time that the equipment operates and the intensity of construction activities during that time

Table 6. Typical Construction Equipment Maximum Noise Levels

Equipment Type	Typical Equipment (Lmax, dBA at 50 Feet)
Air compressor	78
Backhoe	78
Concrete pump truck	81
Grader	85
Crane	81
Dump Truck	76
Dozer	82
Generator	72
Front End Loader	79
Paver	77
Pneumatic tools	85
Water pump	77

Source: FTA 2006.
Note: L_{max} = maximum sound level; dBA = A-weighted decibels.

Using the roster from Table 5 and the reported equipment sound generation levels from Table 6 as guidance for input parameters, and as detailed in the worksheets appearing in Attachment B, combined construction noise emission for each listed phase was predicted with a model that emulates the Federal Highway Administration

(FHWA) Roadway Construction Noise Model (RCNM) and utilizes its reference sound level data and "acoustical usage factors" by equipment type (FHWA 2008).

Construction Vibration

The vibration levels generated by common construction equipment are provided in Table 7, Vibration Source Levels for Construction Equipment.

Table 7. Vibration Source Levels for Construction Equipment

Equipment	PPV (ips) at 25 feet	Approximate VdB at 25 feet
Small Bulldozer	0.003	58
Jackhammer	0.035	79
Loaded Trucks	0.076	86
Large Bulldozer	0.089	87
Pile Driver (sonic)	0.17	93
Vibratory Roller	0.210	94

Source: Caltrans 2020.

Ground-borne vibration attenuates rapidly, even over short distances. The attenuation of ground-borne vibration as it propagates from source to receptor through intervening soils and rock strata can be estimated with expressions found in FTA and Caltrans guidance. To examine potential building damage risk and, thus, use PPV as the evaluation metric, vibration velocity level can be estimated with the following expression (FTA 2018):

$$PPV_{rcvr} = PPV_{ref} * (25/D)^{n}$$

where PPV_{rcvr} is the predicted vibration velocity at the receiver position, PPV_{ref} is the reference value at 25 feet from the vibration source, D is the actual horizontal distance to the receiver, and "n" is the Wiss exponent that FTA defines as 1.5 to generally characterize the propagation of vibration through soil/strata between the source and the receptor position.

For evaluating potential annoyance of a building occupant, FTA guidance provides an additional expression using the VdB metric (FTA 2018):

$$VdB_{rcvr} = VdB_{ref} - 30*LOG(D/25)$$

where VdB_{rcvr} is the predicted RMS vibration velocity at the receiver position, VdB_{ref} is the reference value at 25 feet from the vibration source, and D is the actual horizontal distance to the receiver.

Construction Traffic (Temporary)

According to Dudek's Transportation Analysis, Project construction is expected to temporarily generate 480 total daily trips, 288 AM peak hour trips, and 288 PM peak hour trips (worker, vendor, and haul trucks) in the area surrounding the Project. This temporary increase is relatively modest, and the dispersal of trips across numerous roadways minimizes the potential for significant impact on any single road. Because the construction of the Project will not require many daily trips and would be distributed across numerous roadways surrounding the Project, its

potentially additive effects on pre-existing nearby roadway traffic volumes such as 90th Street East or East Avenue J are expected to be modest or even negligible.

4.1.2 Operations

Roadway Traffic Noise

Because routine operation of the Project will not require many onsite personnel, its potentially additive effects on pre-existing nearby roadway traffic volumes such as 90th Street East or East Avenue J are expected to be modest or even negligible.

Stationary Source Noise

Using DataKustik's CadnaA software, which models three-dimensional outdoor sound propagation based on International Organization for Standardization (ISO) 9613-2 algorithms and relevant reference data, an operational scenario of the Project was modeled for purposes of this analysis. The modeled scenario included the following operating assumptions for the anticipated noise sources: 62 battery energy storage enclosures (each with five [5] cooling system fans operating at 40% capacity[1]); 16 MV transformers; 1 substation transformer; and 20 PV solar array inverters. Due to PV solar panel string tracking motors having relatively small power ratings and operating intermittently (i.e., not continuously), their noise contribution would be considered not substantial compared to the aforesaid BESS components and PV solar facility inverters and are therefore not included herein. Inverters serving the solar PV panels would operate only during daylight hours, while the PV panels produce electricity from exposure to sunlight. The BESS facilities are expected to operate at any time, either discharging or charging onsite batteries, up to 24 hours a day, 365 days a year.

The predictive analysis is based upon a daytime period and assumes that all the above equipment is operating to generate electricity (PV panels) and under a charging or discharging condition that may last up to a full continuous hour (BESS equipment). For purposes of this preliminary analysis, the overall A-weighted levels appearing in Table 8 were used to define the individual Project sound sources.

[1] This cooling system fan capacity setting is consistent with confidential operational data provided by the Applicant's candidate supplier of onsite equipment, which accounts for expected seasonal environmental conditions in the vicinity of the Project Site.

Table 8. Sound Power Levels for the Modeled Individual Sources of Outdoor Noise Emission

Source	A-weighted Sound Level per Octave Band Center Frequency (OBCF in Hertz [Hz])									Overall Sound Power Level (L_W dBA)
	31.5	63	125	250	500	1k	2k	4k	8k	
Five-fan BESS[a]	38.5	51.7	62.1	77.0	69.3	71.2	69.0	63.8	51.0	82.2
PV solar array inverter [b]	34.2	53.2	65.2	67.2	73.2	70.2	66.2	61.2	52.2	76.6
MV transformer[c]	30.0	49.0	61.0	63.0	69.0	66.0	62.0	57.0	48.0	72.4
Substation Transformer[d]	n/a	64.4	75.8	73.9	79.6	73.7	66.6	60.3	64.4	82.7

Notes: OBCF = Octave Band Center Frequency; dBA = A-weighted decibels; BESS = battery energy storage system; MV = medium voltage; k = kilohertz.

[a] Reference sound power level data shown herein, based upon data provided by the Applicant's candidate supplier of onsite equipment, represents the aforementioned 40% capacity setting for cooling fan operation.

[b] based on Maddox data (per NEMA for 1500kV)

[c] Estimated with Electric Power Plant Environmental Noise Guide (Edison Electric Institute 1984), results in sound pressure level (SPL) at 2 meters comparable to 89 dBA per Applicant candidate supplier recommendations.

[d] OBCF granularity based on measured sound power levels calculated using sound intensity measurements of a 75/100/125 MVA transformer (HGC Engineering 2016).

These above-listed reference sound power (L_W) levels were used to define area sources of sound emission in the CadnaA computer model space with respect to rendered "building" blocks that depict the rectangular arrangement of battery enclosure rows on the site plan. In addition to the above sound source inputs, the following assumptions, features, and parameters are included in this CadnaA-supported stationary noise source assessment:

- Ground effect acoustical absorption coefficient equal to 0.8, which represents a mix of ground types over which Project sound would travel across and beyond the Project site: acoustically absorptive "soft" vegetated ground cover, loose soils, and granular aggregate; and acoustically reflective roadway surfaces;
- Reflection order of 1, which allows for a single reflection of sound paths on encountered structural surfaces such as the modeled battery enclosure row masses;
- Conservative consideration of topography: both the Project site and the grade of the nearest residential community to the northeast are, on average, at the same elevation above sea level; and
- Calm meteorological conditions (i.e., no wind) with 68 degrees Fahrenheit and 50% relative humidity.

Details of the CadnaA modeling input parameters (e.g., modeled sources) can be found in Attachment C.

Vibration

Once operational, the Project would not be expected to feature major onsite producers of ground-borne vibration. Anticipated electro-mechanical systems like the battery enclosure thermal management systems are designed and manufactured to feature rotating and reciprocating components (e.g., fans and refrigeration compressors) that are well-balanced with isolated vibration within or external to the equipment casings. On this basis, potential vibration impacts due to Project operation are not expected to be significant and have not been evaluated herein.

4.2 Analysis Results

The following noise and vibration impact analysis sections are arranged in the same order as the three aforementioned CEQA Appendix G checklist assessment criteria with abbreviated headings.

A. Generation of substantial temporary or permanent increase in noise levels?

Onsite Construction Noise (Temporary)

As described under Section 4.4.1, Dudek used an RCNM-emulating Excel workbook to evaluate construction noise levels at Project vicinity receivers; the predicted noise level exposure from the proposed construction activities at the nearest studied residential noise-sensitive receptors are summarized in Table 9. The nearest distance represents the closest distances from the noise-sensitive receptors to each construction phase area across the Project Site (i.e., BESS, substation, and PV solar facility). Per Section 12.08.440 of the County Code of Ordinances, construction equipment by phase were separated into "mobile" and "stationary" equipment. Although the prediction results in Table 9 are presented as 8-hour L_{eq} values, they are essentially equivalent to hourly L_{eq} values since Table 5 indicates that construction equipment would operate eight hours during a typical work shift within the FTA's recommended construction period.

In addition to predicting aggregate construction noise exposure in terms of 1-hour L_{eq} ($L_{eq[1h]}$), at the nearest sensitive offsite receptor from a set of multiple operating equipment pieces associated with an activity or "phase," Table 9 also shows the predicted L_{max} noise exposure at the same offsite receptor position due to operation of the single loudest piece of heavy equipment associated with the indicated construction phase. Attachment B provides this "Distance Adjusted Lmax" dBA value for each single piece of equipment, which includes sound attenuation due to geometric divergence (a.k.a., distance that the sound traverses) and insertion loss attributed to a temporary barrier located between the equipment piece position and the receptor location. Thus, as presented in Table 9, mobile construction equipment operation would comply with the applicable daytime limit of 75 dBA $L_{eq[1h]}$, and operation of stationary construction equipment would comply with the applicable daytime limit of 60 dBA $L_{eq[1h]}$. Table 9, as supported by Attachment B details, also shows that corresponding distance-adjusted (and including, where applicable, barrier-attributed insertion loss) L_{max} magnitudes of individual equipment noise emission also do not exceed these decibel quantities for mobile and stationary equipment types, respectively.

Table 9. Onsite Construction Noise Model Results Summary (Noise-Sensitive Receptor – Residence)

Construction Phase (from Table 5)	Distance to Nearest Residential Noise-Sensitive Receptor (feet)	Construction Noise at Nearest Residential Noise-Sensitive Receptor (NSR)[a]			
		Mobile Equipment		Stationary Equipment	
		Phase 8-hour L_{eq} (dBA)	Loudest Equipment L_{max} (dBA)[c]	Phase 8-hour L_{eq} (dBA)	Loudest Equipment L_{max} (dBA)[c]
BESS Area[b]					
Phase 1: Site Preparation, Fencing, and Ingress/Egress	210	57.7	56.7	N/A	N/A
Phase 2: Civil Improvements – Grading/Roads/ Earthwork	210	58.0	56.7	N/A	N/A
Phase 3: PV Panel and BESS Construction	210	62.5	66.7	47.8	49.7
Phase 4: Testing and Commissioning	N/A	N/A	N/A	N/A	N/A
Phase 5: Decommissioning and Reclamation	210	62.5	66.7	47.8	49.7
Substation Area[b]					
Phase 1: Site Preparation, Fencing, and Ingress/Egress	100	64.6	63.7	N/A	N/A
Phase 2: Civil Improvements – Grading/Roads/ Earthwork	100	65.0	63.7	N/A	N/A
Phase 3: PV Panel and BESS Construction	100	69.5	73.7	54.8	56.7
Phase 4: Testing and Commissioning	N/A	N/A	N/A	N/A	N/A
Phase 5: Decommissioning and Reclamation	100	69.5	73.7	54.8	56.7
PV Solar Facility					
Phase 1: Site Preparation, Fencing, and Ingress/Egress	1380	51.0	50.0	N/A	N/A
Phase 2: Civil Improvements – Grading/Roads/ Earthwork	1380	51.3	50.0	N/A	N/A
Phase 3: PV Panel and BESS Construction	140*	71.3	71.0	40.2	43.0
Phase 4: Testing and Commissioning	N/A	N/A	N/A	N/A	N/A
Phase 5: Decommissioning and Reclamation	1380	55.8	60.0	40.2	43.0

Notes: See Attachment B for complete results.

[a] Predictive analysis assumes an 8-foot-tall temporary noise barrier is implemented during construction (BESS and Substation).

[b] Per Section 12.08.440 of Los Angeles County's Code of Ordinances, the construction noise limit for mobile equipment is 75 dBA L_{eq}, or 60 dBA L_{eq} for stationary equipment.

[c] Loudest single piece of equipment for indicated Phase.

* Phase 3 includes the construction of the Project gen-tie connection along 90th Street East.

Project construction noise at the nearest noise-sensitive receptors to the BESS and substation areas would be higher than the measured ambient levels by up to 11.9 dBA during Phase 3 and 5, but only temporarily and when operating mobile equipment; when operating stationary equipment, construction noise levels for the BESS and substation areas would be lower than the measured ambient levels by 0.1 dBA. At the nearest noise-sensitive receptor to the PV solar facility, Project construction noise would be up to 19.9 dBA higher than the measured ambient levels during Phase 3 of construction, but only temporarily and when operating mobile equipment. Additionally, Phase 3 of the construction of the PV solar facility assumes that some pieces of construction equipment shown in Table 5 would be used to install the Project gen-tie line at a distance as close as 140 feet from a nearest noise-sensitive receptor along 90th Street East, whereas the remaining construction equipment would be operating within the PV solar facility boundaries, approximately 1,380 feet away from the nearest noise-sensitive receptor.

It is important to note that the predicted construction noise levels at the nearest noise-sensitive receptors assume that an 8-foot-tall temporary noise barrier is implemented during construction activities at the Project BESS and substation areas, and would be strategically placed on the northern and eastern boundaries of both the BESS and substation areas during construction (see Attachment B – Construction Noise Prediction Model Worksheets).

Thus, all predicted construction noise levels at the noise-sensitive receptor appearing in Table 9, assuming an 8-foot temporary noise barrier is in place on the northern and eastern boundaries of both the BESS and substation areas during construction, are below the County's 75 dBA L_{eq} threshold for mobile equipment and 60 dBA L_{eq} threshold for stationary equipment during each phase of construction. On this basis, construction noise levels would be considered **a less than significant impact**.

Construction Traffic (Temporary)

Project construction would increase offsite traffic noise from commuting construction workers and haul trucks bringing materials to and from the Project Site areas, which could expose nearby residences to cumulative noise from construction traffic in addition to onsite construction activities, and result in increased hourly and daily average traffic noise levels. As described in Section 3.1.1, a doubling of the traffic trips along any existing roadway would result in a 3 dB increase in traffic noise levels, which is the lowest change perceptible to the human ear in an outdoor environment with multiple noise sources. According to Dudek's Transportation Analysis, Project construction is expected to temporarily generate 480 total daily trips, 288 AM peak hour trips, and 288 PM peak hour trips (worker, vendor, and haul trucks) in the area surrounding the Project. When compared to the total volume of traffic on surrounding roadways, this temporary increase is relatively modest, and would certainly not begin to approach a doubling of existing trips. In addition, the dispersal of trips across numerous roadways minimizes the potential for significant impact on any single road Given the addition of 480 total daily construction trips spread over the local roadway network is unlikely to double existing volumes on any roadway in the Project vicinity, the addition of construction traffic is not expected to result in a perceptible increase in daily average traffic noise levels, and this impact would be considered **less than significant**.

Operation Noise

Roadway Traffic Noise

Due to the Project's expected modest employee traffic and occasional maintenance and delivery vehicles, Project attributed changes to existing traffic volumes on 90th Street East, East Avenue J, and other adjacent roadways would result in negligible traffic noise increases and would therefore be considered **less than significant**.

Stationary Sources

Predicted noise exposure levels attributed to concurrent operation of Project onsite stationary sources (i.e., battery enclosure cooling systems, MV transformers, PV solar array inverters, and substation transformer) as modeled appear in Table 10. Section 12.08.390 of the County Code of Ordinances establishes percentile-exceeded sound level (L_{xx}) exterior noise level limits, as shown in Table 4. Such L_{xx} values are useful when the noise level fluctuates with time, as would be the case for most measured outdoor ambient sound environments. However, in the case where the noise of concern is due to contribution from steady-state operation of electro-mechanical equipment, such as heating, ventilating, and air-condition system (HVAC) components (e.g., fans, etc.) that would keep proposed onsite battery containers and transformers cool, the noise level does not vary greatly with time. For example, when the proposed equipment is operating, the sound level would essentially be the same, minute to minute as time elapses; thus, the L_{50} or median value of a stack of measured or predicted successive one-minute sound pressure levels associated with the studied operating onsite BESS equipment should be comparable or even equivalent to the energy-equivalent (L_{eq}) value of the period being evaluated. And because the prediction assumes a full hour of steady-state equipment operation, the L_{eq} value would also be comparable to the L25 value from the same stack of minute-to-minute sound levels. As a result, as appearing in Table 10, the worst-case stationary operational noise levels are predicted as an hourly L_{eq} and considered appropriate for direct comparison with the County's "Standard No. 1" per Section 12.08.390.B for L_{50} limits.

The predicted levels at the studied noise-sensitive receptor locations do not exceed the County's exterior noise level limits at residential land uses of 50 dBA L_{eq} from 7:00 a.m. to 10:00 p.m. or 45 dBA L_{eq} from 10:00 p.m. to 7:00 a.m.; therefore, potential noise impacts associated with Project operation would be considered **less than significant**.

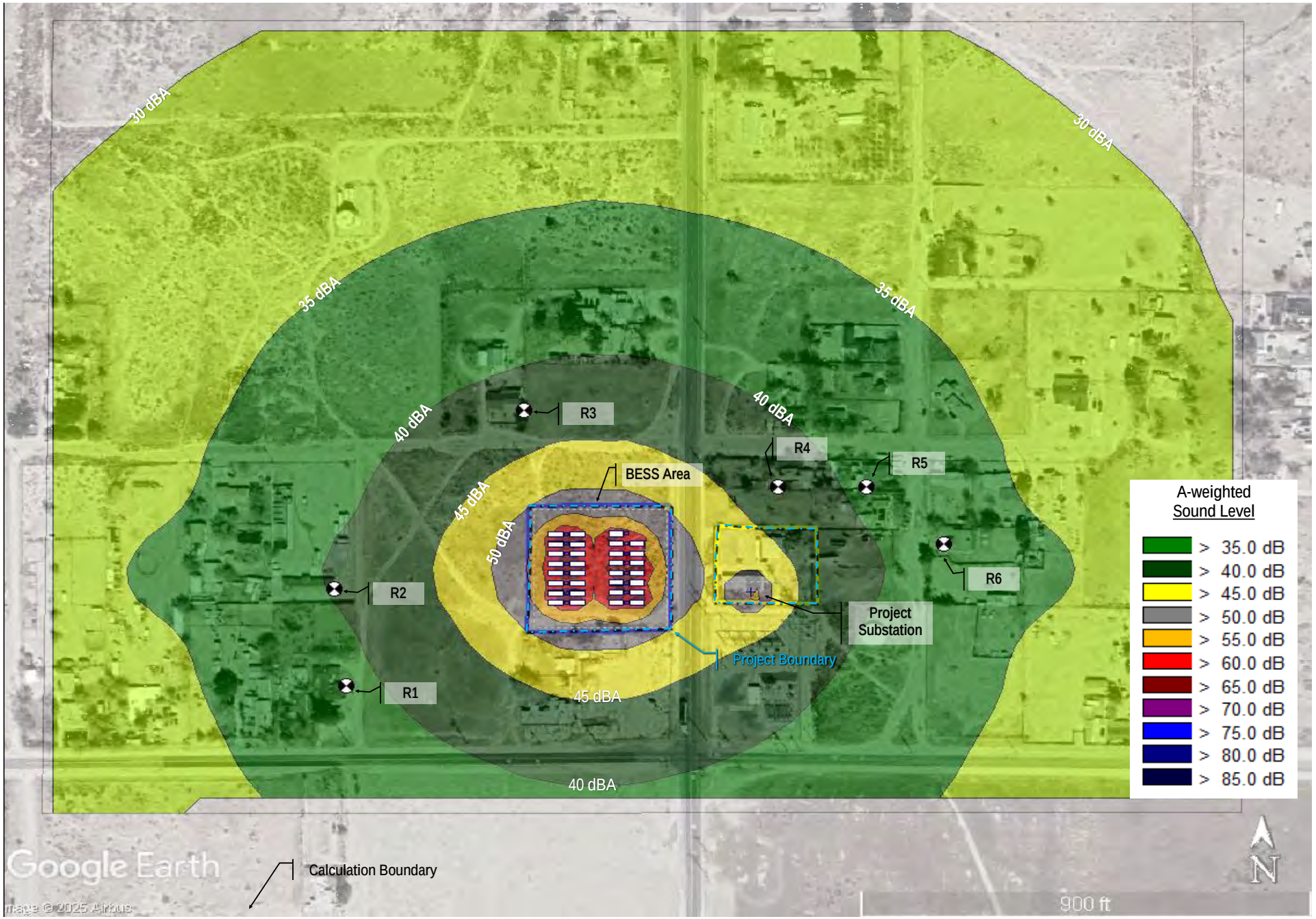
Table 10. Project Operation Noise Prediction Model Results Summary

Modeled Receptor	Modeled Receptor Distance from Project Boundary	Predicted Operation Noise (dBA hourly L_{eq}) at Indicated Modeled Receptor	Exceeds Los Angeles County Applicable Nighttime Threshold (45 dBA)?
R1	360 feet southwest of BESS	38.8	No
R2	360 feet west of BESS	40.3	No
R3	210 feet north of BESS	42.1	No
R4	100 feet north of Project substation	42.5	No
R5	140 feet northeast of Project substation	39.1	No

Table 10. Project Operation Noise Prediction Model Results Summary

Modeled Receptor	Modeled Receptor Distance from Project Boundary	Predicted Operation Noise (dBA hourly L_{eq}) at Indicated Modeled Receptor	Exceeds Los Angeles County Applicable Nighttime Threshold (45 dBA)?
R6	250 feet east of Project substation	37.8	No

Figure 3 correspondingly illustrates (for this same modeled full operation scenario) predicted Project stationary equipment operation sound levels from the Project BESS and substation, across a horizontal plane approximately five feet above grade (i.e., a first-floor or pedestrian listening elevation) over the Project Site and beyond into the surrounding vicinity. Figure 4 illustrates the predicted stationary equipment operation sound levels from the Project PV solar array. Because the noise-sensitive receptors nearest to the PV solar facility are located approximately 1,390 feet away, the aggregate noise contribution of the modeled PV solar facility inverters would be considered not substantial or even negligible compared to the aforesaid BESS and substation components located closer to offsite noise-sensitive receptors.



SOURCES: Google 2025; Pronghorn Solar and Storage 2025; Dudek 2025

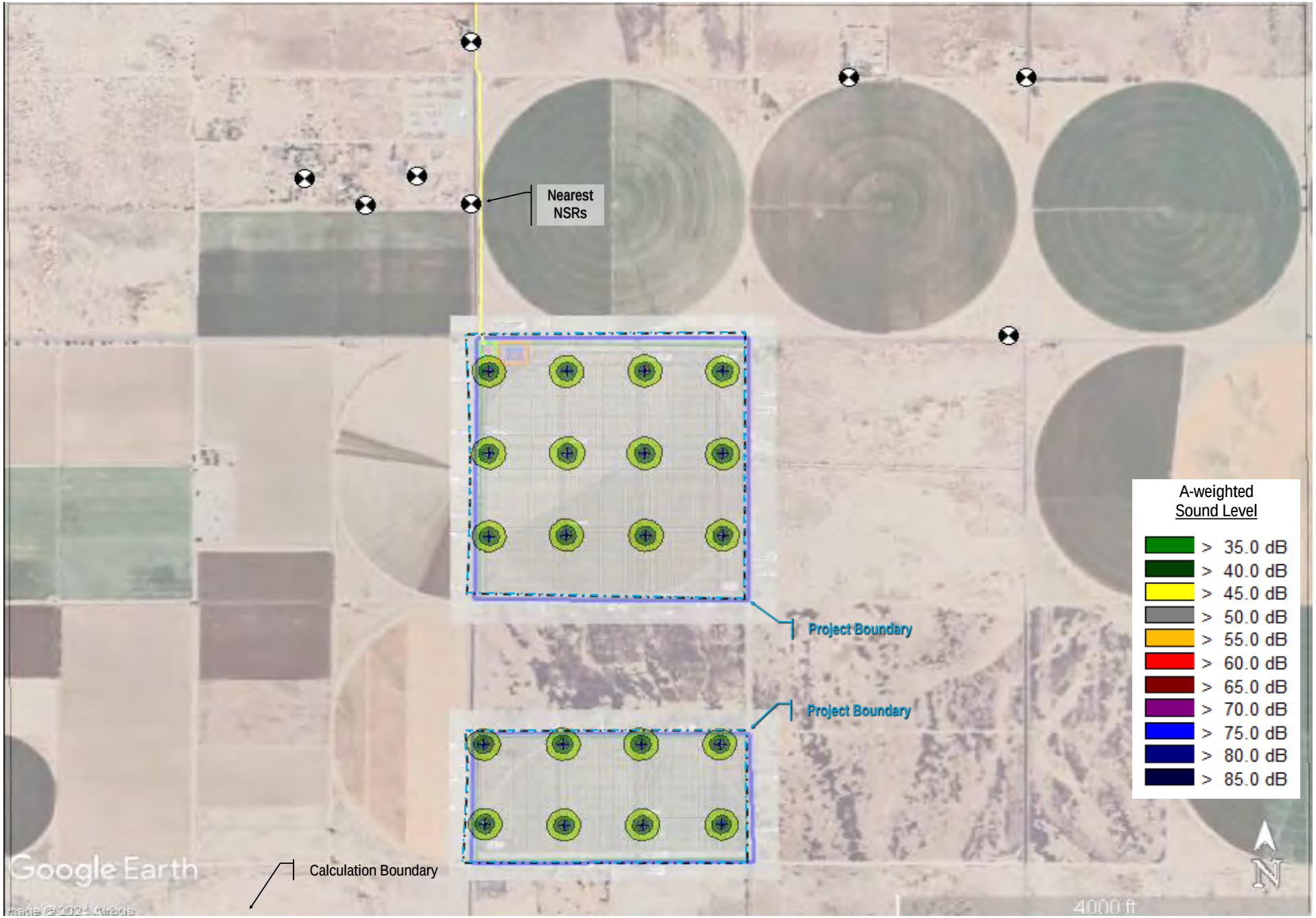
DUDEK

0 103.5 207 Feet

FIGURE 3

Predicted Stationary Source Operation Noise from Proposed Project BESS and Substation (dBA Hourly Leq)

Pronghorn Solar and Storage Project (Los Angeles County, CA)



SOURCES: Google 2025; Pronghorn Solar and Storage 2025; Dudek 2025

DUDEK

0 790.5 1581 Feet

FIGURE 4

Predicted Stationary Source Operation Noise from Proposed Project PV Solar Facility (dBA Hourly Leq)

Pronghorn Solar and Storage Project (Los Angeles County, CA)

B. Generation of excessive ground-borne vibration?

Onsite Construction Activities

Using the expressions described in Section 4.1.1, ground-borne vibration velocity levels attributed to anticipated onsite usage of a loader and vibratory post driver at the nearest offsite noise-sensitive receptor to Phase 3 and 5 of construction at the Project substation were calculated.

By way of example, the Project substation construction along 90th Street East would appear to occur as close as 100 feet to the southern façade of the nearest offsite receptor along East Pilsbury Street. At this distance, and using a reference typical ground-borne PPV of 0.17 ips for a pile driver (sonic) at a distance of 25 feet, the estimated PPV at the receiving building façade and likely closest interior occupied space can be estimated as follows:

$$PPV_{rcvr} = 0.17*(25/100)^{1.5} = 0.021 \text{ ips}$$
$$VdB_{rcvr} = 20*LOG(0.021/(4*0.000001)) = 75$$

As shown in Table 11, predicted ground-borne vibration velocity levels are below the Caltrans guidance-based 0.3 ips PPV threshold for avoiding building damage to older residential structures, as well as the 0.2 ips PPV threshold for occupant annoyance. For informational purposes, the predicted VdB levels are also shown in Table 11, and they would not exceed the FTA-based groundborne vibration guidance limit for occupants of receiving residential land uses exposed to "occasional" or "infrequent" vibration events (75 or 80 VdB, per Table 3) when a vibratory pile driver operates during Phase 3 and 5 of construction.

Subsequent onsite construction activities would involve greater quantities of equipment, but such equipment would have vibration generation levels than a vibratory post driver and/or their distances to the studied sensitive receptors would be much greater. Hence, ground-borne vibration propagating from these more distant or lower magnitude sources of onsite vibration would be substantially less than the preceding estimates and the Caltrans guidance-based vibration exposure thresholds. Therefore, on the basis of compliance with these standards, impacts associated with construction vibration are expected to be **less than significant.**

Table 11. Predicted Onsite Construction Vibration at Nearest Noise Sensitive Receptor

Studied Receptor (Description)	Anticipated Vibration Source Closest Distance (feet)	Predicted PPV (inches per second) and VdB (rms) for Indicated Equipment Type			
		Vibratory Pile Driver (pile driver, sonic)		Loader	
		PPV	VdB	PPV	VdB
Residence north of Project substation	100	0.021	75	0.011	69

Source: Dudek 2025; FTA 2018
Notes: VdB = vibration velocity decibels, rms = root mean square, PPV = peak particle velocity.

C. Expose people to excessive aviation noise levels?

There are no public airports or private airfields within 2 miles of the Project Site, and the Project Site is distant from a mapped aviation traffic noise contour greater than 65 dBA CNEL associated with public airports in the region. Therefore, construction workers and post-construction Project operational or maintenance staff onsite would not be exposed to excessive noise levels, and the corresponding noise impact would be considered less than significant.

5 Conclusions

As analyzed herein, potential Project construction and operation-related noise and vibration impacts to the surrounding community would be considered less than significant on the basis of compliance with County of Los Angeles standards and FTA guidance.

6 References Cited

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Attachment A

Baseline Measurement Field Notes

FORMS FIELD DATA REPORT

Field Noise Measurement Data

Record: 1857	
Project Name	*Pronghorn*
Observer(s)	
Date	*2024-03-01*

Meteorological Conditions	
Temp (F)	*54*
Humidity % (R.H.)	*50*
Wind	*Variable*
Wind Speed (MPH)	*24*
Wind Direction	*West*
Sky	*Partly Cloudy*

Instrument and Calibrator Information	
Instrument Name List	*(ENC) Rion NL-52*
Instrument Name	*(ENC) Rion NL-52*
Instrument Name Lookup Key	*(ENC) Rion NL-52*
Manufacturer	*Rion*
Model	*NL-52*
Serial Number	*553896*
Calibrator Name	*(ENC) LD CAL150*

Calibrator Name	*(ENC) LD CAL150*
Calibrator Name Lookup Key	*(ENC) LD CAL150*
Calibrator Manufacturer	*Larson Davis*
Calibrator Model	*LD CAL150*
Calibrator Serial #	*5152*
Pre-Test (dBA SPL)	*94*
Post-Test (dBA SPL)	*94*
Windscreen	*Yes*
Weighting?	*A-WTD*
Slow/Fast?	*Slow*

Monitoring	
Record #	*1*
Site ID	*ST1*
Site Location Lat/Long	*34.690648, -117.969822*
Begin (Time)	*11:24:00*
End (Time)	*11:40:00*
Leq	*65.6*
Lmax	*82.3*
Lmin	*45.1*
Other Lx?	*L90, L50, L10*
L90	*50.7*
L50	*56.9*

L10	*66.5*
Other Lx (Specify Metric)	*L*
Primary Noise Source	
Other Noise Sources (Background)	*Birds, Distant Aircraft, Rustling Leaves*
Is the same instrument and calibrator being used as previously noted?	*Yes*
Are the meteorological conditions the same as previously noted?	*Yes*

Source Info and Traffic Counts	
Number of Lanes	*2*
Lane Width (feet)	*10*
Roadway Width (feet)	*20*
Roadway Width (m)	*6.1*
Distance to Roadway (feet)	*10*
Distance to Roadway (m)	*3*
Distance Measured to Centerline or Edge of Pavement?	*Edge of Pavement*
Estimated Vehicle Speed (MPH)	*0*

Traffic Counts	
Vehicle Count Summary	*A 41, MT 2, HT 2, B 0, MC 0*
Counting Both Directions?	*Yes*
Count Duration (minutes)	*0*
Vehicle Count Tally	

Select Method for Vehicle Counts	*Enter Manually*
Number of Vehicles - Autos	*41*
Number of Vehicles - Medium Trucks	*2*
Number of Vehicles - Heavy Trucks	*2*
Number of Vehicles - Buses	*0*
Number of Vehicles - Motorcyles	*0*

Description / Photos

Site Photos

Photo



Comments / Description	*Facing south*

Site Photos

Photo	
Comments / Description	*Facing north*

Site Photos

Photo	
Comments / Description	*Facing east*

Site Photos

Photo	
Comments / Description	*Facing west*

Monitoring	
Record #	*2*
Site ID	*ST2*
Site Location Lat/Long	*34.679005, -117.969769*

Begin (Time)	*11:44:00*
End (Time)	*11:59:00*
Leq	*68.3*
Lmax	*86.5*
Lmin	*53.4*
Other Lx?	*L90, L50, L10*
L90	*57.1*
L50	*62.6*
L10	*71.2*
Other Lx (Specify Metric)	*L*
Primary Noise Source	*Traffic*
Other Noise Sources (Background)	*Distant Traffic, Rustling Leaves*
Is the same instrument and calibrator being used as previously noted?	*Yes*
Are the meteorological conditions the same as previously noted?	*Yes*

Source Info and Traffic Counts	
Number of Lanes	*2*
Lane Width (feet)	*10*
Roadway Width (feet)	*20*
Roadway Width (m)	*6.1*
Distance to Roadway (feet)	*8*
Distance to Roadway (m)	*2.4*

Distance Measured to Centerline or Edge of Pavement?	*Edge of Pavement*
Estimated Vehicle Speed (MPH)	*0*

Traffic Counts

Vehicle Count Summary	*A 28, MT 0, HT 3, B 0, MC 0*
Counting Both Directions?	*Yes*
Count Duration (minutes)	*0*
Vehicle Count Tally	
Select Method for Vehicle Counts	*Enter Manually*
Number of Vehicles - Autos	*28*
Number of Vehicles - Medium Trucks	*0*
Number of Vehicles - Heavy Trucks	*3*
Number of Vehicles - Buses	*0*
Number of Vehicles - Motorcyles	*0*

Description / Photos

Site Photos

Photo	
Comments / Description	*Facing north*

Site Photos

Photo	
Comments / Description	*Facing south*

Site Photos

Photo	
Comments / Description	*Facing east*

Monitoring	
Record #	*3*
Site ID	*ST3*
Site Location Lat/Long	*34.660802, -117.967872*

Begin (Time)	*12:13:00*
End (Time)	*12:28:00*
Leq	*54.9*
Lmax	*66.3*
Lmin	*40.8*
Other Lx?	*L90, L50, L10*
L90	*45.5*
L50	*51.9*
L10	*58.3*
Other Lx (Specify Metric)	*L*
Primary Noise Source	*Traffic*
Other Noise Sources (Background)	*Distant Aircraft, Distant Traffic, Rustling Leaves*
Is the same instrument and calibrator being used as previously noted?	*Yes*
Are the meteorological conditions the same as previously noted?	*Yes*

Description / Photos

Site Photos

Photo	
Comments / Description	*Facing west*

Site Photos

Photo	
Comments / Description	*Facing south*

Site Photos

Photo	
Comments / Description	*Facing north*

Site Photos

Photo	
Comments / Description	*Facing east*

Monitoring	
Record #	*4*
Site ID	*ST4*
Site Location Lat/Long	*34.646104, -117.966283*

Begin (Time)	*12:34:00*
End (Time)	*12:49:00*
Leq	*69.7*
Lmax	*98.5*
Lmin	*41.4*
Other Lx?	*L90, L50, L10*
L90	*44.8*
L50	*50.2*
L10	*59.4*
Other Lx (Specify Metric)	*L*
Primary Noise Source	*Traffic*
Other Noise Sources (Background)	*Distant Traffic, Rustling Leaves*
Is the same instrument and calibrator being used as previously noted?	*Yes*
Are the meteorological conditions the same as previously noted?	*Yes*

Description / Photos

Site Photos

Photo	
Comments / Description	*Facing east*

Site Photos

Photo	
Comments / Description	*Facing west*

Site Photos

Photo	
Comments / Description	*Facing south*

Site Photos

Photo	
Comments / Description	*Facing north*

Attachment B

Construction Noise Prediction Worksheets

FHWA RCNM Emulator - Construction Noise Prediction

Mobile Source(s) of Noise at each Project Phase

offsite receiver position at

first floor level

Barrier insertion loss calculations below based upon FTA *Transit Noise and Vibration Impact Assessment* (2006)

To User: bordered cells are inputs, unbordered cells have formulae
enter "0" to turn off air or grnd absorption terms, "1" to turn on

apply air absorption? 1
apply ground absorption? 1

magnitude of threshold (dBA) = 75
allowable hours over which Leq is to be averaged = 1

Source, receptor, and barrier all share same reference grade elevation; unless otherwise noted)
8 = Barrier of input height inserted between source and receptor

Project Phase No.	Project Phase Description	Comparable FHWA RCNM Construction Equipment Type	Quantity	AUF % (from FHWA RCNM)	Reference Lmax @ 50 ft. from FHWA RCNM	Source to NSR Distance (ft.)	*Temporary Barrier Insertion Loss (dB)*	*Additional Noise Reduction*	Distance-Adjusted Lmax	Allowable Operation Time (hours)	Allowable Operation Time (minutes)	Predicted 1-hour Leq	Source Elevation (ft)	Receiver Elevation (ft)	Barrier Height (ft)	Source to Barr. ("A") Horiz. (ft)	Rcvr. to Barr. ("B") Horiz. (ft)	Source to Rcvr. ("C") Horiz. (ft)	"A" (ft)	"B" (ft)	"C" (ft)	Path Length Diff. "P" (ft)	Abarr (dB)	Heff (with barrier)	Heff (wout barrier)	G (with barrier)	G (without barrier)	ILbarr (dB)
1	Site Preparation, Fencing, and Ingress/Egress	**tractor**	1	40	84	220	11		55.7	1	60	52	5	5	8	5	215	220	5.8	215.0	220.0	0.85	12.3	13.0	5.0	0.5	0.7	11.4
		grader	1	40	85	220	11		56.7	1	60	53	5	5	8	5	215	220	5.8	215.0	220.0	0.85	12.3	13.0	5.0	0.5	0.7	11.4
		dump truck	1	40	76	220	11		47.7	1	60	44	5	5	8	5	215	220	5.8	215.0	220.0	0.85	12.3	13.0	5.0	0.5	0.7	11.4
		compactor (ground)	1	20	80	220	11		51.7	1	60	45	5	5	8	5	215	220	5.8	215.0	220.0	0.85	12.3	13.0	5.0	0.5	0.7	11.4
		front end loader	1	40	79	220	11		50.7	1	60	47	5	5	8	5	215	220	5.8	215.0	220.0	0.85	12.3	13.0	5.0	0.5	0.7	11.4
		scraper	1	40	84	220	11		55.7	1	60	52	5	5	8	5	215	220	5.8	215.0	220.0	0.85	12.3	13.0	5.0	0.5	0.7	11.4
		Total Aggregate Noise Exposure from Site Preparation, Fencing, and Ingress/Egress Phase										**57.7**																
2	Civil Improvements - Grading/Roads/Earthwork	**tractor**	1	40	84	220	11		55.7	1	60	52	5	5	8	5	215	220	5.8	215.0	220.0	0.85	12.3	13.0	5.0	0.5	0.7	11.4
		grader	1	40	85	220	11		56.7	1	60	53	5	5	8	5	215	220	5.8	215.0	220.0	0.85	12.3	13.0	5.0	0.5	0.7	11.4
		dump truck	1	40	76	220	11		47.7	1	60	44	5	5	8	5	215	220	5.8	215.0	220.0	0.85	12.3	13.0	5.0	0.5	0.7	11.4
		compactor (ground)	1	20	80	220	11		51.7	1	60	45	5	5	8	5	215	220	5.8	215.0	220.0	0.85	12.3	13.0	5.0	0.5	0.7	11.4
		front end loader	2	40	79	220	11		50.7	1	60	50	5	5	8	5	215	220	5.8	215.0	220.0	0.85	12.3	13.0	5.0	0.5	0.7	11.4
		scraper	1	40	84	220	11		55.7	1	60	52	5	5	8	5	215	220	5.8	215.0	220.0	0.85	12.3	13.0	5.0	0.5	0.7	11.4
		Total Aggregate Noise Exposure from Civil Improvements - Grading/Roads/Earthwork Phase										**58.0**																
3	PV Panel and BESS Construction	compressor (air)	0	40	78	220	0		0.0	1	60	0	5	5	0	5	215	220	7.1	215.1	220.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
		tractor	1	40	84	220	11		55.7	1	60	52	5	5	8	5	215	220	5.8	215.0	220.0	0.85	12.3	13.0	5.0	0.5	0.7	11.4
		generator	0	50	72	220	0		0.0	1	60	0	5	5	0	5	215	220	7.1	215.1	220.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
		all other equipment > 5 hp	1	50	85	220	11		56.7	1	60	54	5	5	8	5	215	220	5.8	215.0	220.0	0.85	12.3	13.0	5.0	0.5	0.7	11.4
		Gradall	2	40	83	220	11		54.7	1	60	54	5	5	8	5	215	220	5.8	215.0	220.0	0.85	12.3	13.0	5.0	0.5	0.7	11.4
		front end loader	2	40	79	220	11		50.7	1	60	50	5	5	8	5	215	220	5.8	215.0	220.0	0.85	12.3	13.0	5.0	0.5	0.7	11.4
		slurry trenching machine	2	50	80	220	11		51.7	1	60	52	5	5	8	5	215	220	5.8	215.0	220.0	0.85	12.3	13.0	5.0	0.5	0.7	11.4
		vibratory pile driver	1	20	95	220	11		66.7	1	60	60	5	5	8	5	215	220	5.8	215.0	220.0	0.85	12.3	13.0	5.0	0.5	0.7	11.4
		Total Aggregate Noise Exposure from PV Panel and BESS Construction Phase										**62.5**																
4	Testing and Comissioning	N/A	N/A	#N/A	#N/A	220	0		#N/A	1	60	#N/A	5	5	0	5	215	220	7.1	215.1	220.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
		Total Aggregate Noise Exposure from Testing and Comissioning Phase										**#N/A**																
5	Decomissioning and Reclamation	compressor (air)	0	40	78	220	0		0.0	1	60	0	5	5	0	5	215	220	7.1	215.1	220.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
		tractor	1	40	84	220	11		55.7	1	60	52	5	5	8	5	215	220	5.8	215.0	220.0	0.85	12.3	13.0	5.0	0.5	0.7	11.4
		generator	0	50	72	220	0		0.0	1	60	0	5	5	0	5	215	220	7.1	215.1	220.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
		all other equipment > 5 hp	1	50	85	220	11		56.7	1	60	54	5	5	8	5	215	220	5.8	215.0	220.0	0.85	12.3	13.0	5.0	0.5	0.7	11.4
		Gradall	2	40	83	220	11		54.7	1	60	54	5	5	8	5	215	220	5.8	215.0	220.0	0.85	12.3	13.0	5.0	0.5	0.7	11.4
		front end loader	2	40	79	220	11		50.7	1	60	50	5	5	8	5	215	220	5.8	215.0	220.0	0.85	12.3	13.0	5.0	0.5	0.7	11.4
		Slurry Trenching Machine	2	50	80	220	11		51.7	1	60	52	5	5	8	5	215	220	5.8	215.0	220.0	0.85	12.3	13.0	5.0	0.5	0.7	11.4
		vibratory pile driver	1	20	95	220	11		66.7	1	60	60	5	5	8	5	215	220	5.8	215.0	220.0	0.85	12.3	13.0	5.0	0.5	0.7	11.4
		Total Aggregate Noise Exposure from Decomissioning and Reclamation Phase										**62.5**																

FHWA RCNM Emulator - Construction Noise Prediction

Stationary Source(s) of Noise at each Project Phase | offsite receiver position at | first floor level

Barrier insertion loss calculations below based upon FTA *Transit Noise and Vibration Impact Assessment* (2006)

To User: bordered cells are inputs, unbordered cells have formulae
enter "0" to turn off air or grnd absorption terms, "1" to turn on

apply air absorption? 1
apply ground absorption? 1

magnitude of threshold (dBA) = 60
allowable hours over which Leq is to be averaged = 1

Source, receptor, and barrier all share same reference grade elevation; unless otherwise noted)
8 = Barrier of input height inserted between source and receptor

Project Phase No.	Project Phase Description	Comparable FHWA RCNM Construction Equipment Type	Quantity	AUF % (from FHWA RCNM)	Reference Lmax @ 50 ft. from FHWA RCNM	Source to NSR Distance (ft.)	*Temporary Barrier Insertion Loss (dB)*	*Additional Noise Reduction*	Distance-Adjusted Lmax	Allowable Operation Time (hours)	Allowable Operation Time (minutes)	Predicted 1-hour Leq	Source Elevation (ft)	Receiver Elevation (ft)	Barrier Height (ft)	Source to Barr. ("A") Horiz. (ft)	Rcvr. to Barr. ("B") Horiz. (ft)	Source to Rcvr. ("C") Horiz. (ft)	"A" (ft)	"B" (ft)	"C" (ft)	Path Length Diff. "P" (ft)	Abarr (dB)	Heff (with barrier)	Heff (wout barrier)	G (with barrier)	G (without barrier)	ILbarr (dB)
1	Site Preparation, Fencing, and Ingress/Egress	tractor	0	40	84	220	0		0.0	1	60	0	5	5	0	5	215	220	7.1	215.1	220.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
		grader	0	40	85	220	0		0.0	1	60	0	5	5	0	5	215	220	7.1	215.1	220.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
		dump truck	0	40	76	220	0		0.0	1	60	0	5	5	0	5	215	220	7.1	215.1	220.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
		compactor (ground)	0	20	80	220	0		0.0	1	60	0	5	5	0	5	215	220	7.1	215.1	220.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
		front end loader	0	40	79	220	0		0.0	1	60	0	5	5	0	5	215	220	7.1	215.1	220.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
		scraper	0	40	84	220	0		0.0	1	60	0	5	5	0	5	215	220	7.1	215.1	220.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
		Total Aggregate Noise Exposure from Site Preparation, Fencing, and Ingress/Egress Phase										**0.0**																
2	Civil Improvements - Grading/Roads/Earthwork	tractor	0	40	84	220	0		0.0	1	60	0	5	5	0	5	215	220	7.1	215.1	220.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
		grader	0	40	85	220	0		0.0	1	60	0	5	5	0	5	215	220	7.1	215.1	220.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
		dump truck	0	40	76	220	0		0.0	1	60	0	5	5	0	5	215	220	7.1	215.1	220.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
		compactor (ground)	0	20	80	220	0		0.0	1	60	0	5	5	0	5	215	220	7.1	215.1	220.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
		front end loader	0	40	79	220	0		0.0	1	60	0	5	5	0	5	215	220	7.1	215.1	220.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
		scraper	0	40	84	220	0		0.0	1	60	0	5	5	0	5	215	220	7.1	215.1	220.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
		Total Aggregate Noise Exposure from Civil Improvements - Grading/Roads/Earthwork Phase										**0.0**																
3	PV Panel and BESS Construction	compressor (air)	1	40	78	220	11		49.7	1	60	46	5	5	8	5	215	220	5.8	215.0	220.0	0.85	12.3	13.0	5.0	0.5	0.7	11.4
		tractor	0	40	84	220	0		0.0	1	60	0	5	5	0	5	215	220	7.1	215.1	220.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
		generator	2	50	72	220	11		43.7	1	60	44	5	5	8	5	215	220	5.8	215.0	220.0	0.85	12.3	13.0	5.0	0.5	0.7	11.4
		all other equipment > 5 hp	0	50	85	220	0		0.0	1	60	0	5	5	0	5	215	220	7.1	215.1	220.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
		Gradall	0	40	83	220	0		0.0	1	60	0	5	5	0	5	215	220	7.1	215.1	220.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
		front end loader	0	40	79	220	0		0.0	1	60	0	5	5	0	5	215	220	7.1	215.1	220.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
		slurry trenching machine	0	50	80	220	0		0.0	1	60	0	5	5	0	5	215	220	7.1	215.1	220.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
		vibratory pile driver	0	20	95	220	0		0.0	1	60	0	5	5	0	5	215	220	7.1	215.1	220.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
		Total Aggregate Noise Exposure from PV Panel and BESS Construction Phase										**47.8**																
4	Testing and Comissioning	N/A	N/A	#N/A	#N/A	220	0		#N/A	1	60	#N/A	5	5	0	5	215	220	7.1	215.1	220.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
		Total Aggregate Noise Exposure from Testing and Comissioning Phase										**#N/A**																
5	Decomissioning and Reclamation	compressor (air)	1	40	78	220	11		49.7	1	60	46	5	5	8	5	215	220	5.8	215.0	220.0	0.85	12.3	13.0	5.0	0.5	0.7	11.4
		tractor	0	40	84	220	0		0.0	1	60	0	5	5	0	5	215	220	7.1	215.1	220.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
		generator	2	50	72	220	11		43.7	1	60	44	5	5	8	5	215	220	5.8	215.0	220.0	0.85	12.3	13.0	5.0	0.5	0.7	11.4
		all other equipment > 5 hp	0	50	85	220	0		0.0	1	60	0	5	5	0	5	215	220	7.1	215.1	220.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
		Gradall	0	40	83	220	0		0.0	1	60	0	5	5	0	5	215	220	7.1	215.1	220.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
		front end loader	0	40	79	220	0		0.0	1	60	0	5	5	0	5	215	220	7.1	215.1	220.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
		Slurry Trenching Machine	0	50	80	220	0		0.0	1	60	0	5	5	0	5	215	220	7.1	215.1	220.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
		vibratory pile driver	0	20	95	220	0		0.0	1	60	0	5	5	0	5	215	220	7.1	215.1	220.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
		Total Aggregate Noise Exposure from Decomissioning and Reclamation Phase										**47.8**																

FHWA RCNM Emulator - Construction Noise Prediction

Mobile Source(s) of Noise at each Project Phase offsite receiver position at first floor level

Barrier insertion loss calculations below based upon FTA *Transit Noise and Vibration Impact Assessment* (2006)

To User: bordered cells are inputs, unbordered cells have formulae
enter "0" to turn off air or grnd absorption terms, "1" to turn on

apply air absorption? 1
apply ground absorption? 1

magnitude of threshold (dBA) = 75
allowable hours over which Leq is to be averaged = 1

Source, receptor, and barrier all share same reference grade elevation; unless otherwise noted)
8 = Barrier of input height inserted between source and receptor

Project Phase No.	Project Phase Description	Comparable FHWA RCNM Construction Equipment Type	Quantity	AUF % (from FHWA RCNM)	Reference Lmax @ 50 ft. from FHWA RCNM	Source to NSR Distance (ft.)	*Temporary Barrier Insertion Loss (dB)*	*Additional Noise Reduction*	Distance-Adjusted Lmax	Allowable Operation Time (hours)	Allowable Operation Time (minutes)	Predicted 1-hour Leq	Source Elevation (ft)	Receiver Elevation (ft)	Barrier Height (ft)	Source to Barr. ("A") Horiz. (ft)	Rcvr. to Barr. ("B") Horiz. (ft)	Source to Rcvr. ("C") Horiz. (ft)	"A" (ft)	"B" (ft)	"C" (ft)	Path Length Diff. "P" (ft)	Abarr (dB)	Heff (with barrier)	Heff (wout barrier)	G (with barrier)	G (without barrier)	ILbarr (dB)
1	Site Preparation, Fencing, and Ingress/Egress	**tractor**	1	40	84	110	12		62.7	1	60	59	5	5	8	5	105	110	5.8	105.0	110.0	0.87	12.4	13.0	5.0	0.5	0.7	11.9
		grader	1	40	85	110	12		63.7	1	60	60	5	5	8	5	105	110	5.8	105.0	110.0	0.87	12.4	13.0	5.0	0.5	0.7	11.9
		dump truck	1	40	76	110	12		54.7	1	60	51	5	5	8	5	105	110	5.8	105.0	110.0	0.87	12.4	13.0	5.0	0.5	0.7	11.9
		compactor (ground)	1	20	80	110	12		58.7	1	60	52	5	5	8	5	105	110	5.8	105.0	110.0	0.87	12.4	13.0	5.0	0.5	0.7	11.9
		front end loader	1	40	79	110	12		57.7	1	60	54	5	5	8	5	105	110	5.8	105.0	110.0	0.87	12.4	13.0	5.0	0.5	0.7	11.9
		scraper	1	40	84	110	12		62.7	1	60	59	5	5	8	5	105	110	5.8	105.0	110.0	0.87	12.4	13.0	5.0	0.5	0.7	11.9
		Total Aggregate Noise Exposure from Site Preparation, Fencing, and Ingress/Egress Phase										**64.6**																
2	Civil Improvements - Grading/Roads/Earthwork	**tractor**	1	40	84	110	12		62.7	1	60	59	5	5	8	5	105	110	5.8	105.0	110.0	0.87	12.4	13.0	5.0	0.5	0.7	11.9
		grader	1	40	85	110	12		63.7	1	60	60	5	5	8	5	105	110	5.8	105.0	110.0	0.87	12.4	13.0	5.0	0.5	0.7	11.9
		dump truck	1	40	76	110	12		54.7	1	60	51	5	5	8	5	105	110	5.8	105.0	110.0	0.87	12.4	13.0	5.0	0.5	0.7	11.9
		compactor (ground)	1	20	80	110	12		58.7	1	60	52	5	5	8	5	105	110	5.8	105.0	110.0	0.87	12.4	13.0	5.0	0.5	0.7	11.9
		front end loader	2	40	79	110	12		57.7	1	60	57	5	5	8	5	105	110	5.8	105.0	110.0	0.87	12.4	13.0	5.0	0.5	0.7	11.9
		scraper	1	40	84	110	12		62.7	1	60	59	5	5	8	5	105	110	5.8	105.0	110.0	0.87	12.4	13.0	5.0	0.5	0.7	11.9
		Total Aggregate Noise Exposure from Civil Improvements - Grading/Roads/Earthwork Phase										**65.0**																
3	PV Panel and BESS Construction	compressor (air)	0	40	78	110	0		0.0	1	60	0	5	5	0	5	105	110	7.1	105.1	110.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
		tractor	1	40	84	110	12		62.7	1	60	59	5	5	8	5	105	110	5.8	105.0	110.0	0.87	12.4	13.0	5.0	0.5	0.7	11.9
		generator	0	50	72	110	0		0.0	1	60	0	5	5	0	5	105	110	7.1	105.1	110.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
		all other equipment > 5 hp	1	50	85	110	12		63.7	1	60	61	5	5	8	5	105	110	5.8	105.0	110.0	0.87	12.4	13.0	5.0	0.5	0.7	11.9
		Gradall	2	40	83	110	12		61.7	1	60	61	5	5	8	5	105	110	5.8	105.0	110.0	0.87	12.4	13.0	5.0	0.5	0.7	11.9
		front end loader	2	40	79	110	12		57.7	1	60	57	5	5	8	5	105	110	5.8	105.0	110.0	0.87	12.4	13.0	5.0	0.5	0.7	11.9
		slurry trenching machine	2	50	80	110	12		58.7	1	60	59	5	5	8	5	105	110	5.8	105.0	110.0	0.87	12.4	13.0	5.0	0.5	0.7	11.9
		vibratory pile driver	1	20	95	110	12		73.7	1	60	67	5	5	8	5	105	110	5.8	105.0	110.0	0.87	12.4	13.0	5.0	0.5	0.7	11.9
		Total Aggregate Noise Exposure from PV Panel and BESS Construction Phase										**69.5**																
4	Testing and Comissioning	N/A	N/A	#N/A	#N/A	110	0		#N/A	1	60	#N/A	5	5	0	5	105	110	7.1	105.1	110.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
		Total Aggregate Noise Exposure from Testing and Comissioning Phase										**#N/A**																
5	Decomissioning and Reclamation	compressor (air)	0	40	78	110	0		0.0	1	60	0	5	5	0	5	105	110	7.1	105.1	110.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
		tractor	1	40	84	110	12		62.7	1	60	59	5	5	8	5	105	110	5.8	105.0	110.0	0.87	12.4	13.0	5.0	0.5	0.7	11.9
		generator	0	50	72	110	0		0.0	1	60	0	5	5	0	5	105	110	7.1	105.1	110.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
		all other equipment > 5 hp	1	50	85	110	12		63.7	1	60	61	5	5	8	5	105	110	5.8	105.0	110.0	0.87	12.4	13.0	5.0	0.5	0.7	11.9
		Gradall	2	40	83	110	12		61.7	1	60	61	5	5	8	5	105	110	5.8	105.0	110.0	0.87	12.4	13.0	5.0	0.5	0.7	11.9
		front end loader	2	40	79	110	12		57.7	1	60	57	5	5	8	5	105	110	5.8	105.0	110.0	0.87	12.4	13.0	5.0	0.5	0.7	11.9
		Slurry Trenching Machine	2	50	80	110	12		58.7	1	60	59	5	5	8	5	105	110	5.8	105.0	110.0	0.87	12.4	13.0	5.0	0.5	0.7	11.9
		vibratory pile driver	1	20	95	110	12		73.7	1	60	67	5	5	8	5	105	110	5.8	105.0	110.0	0.87	12.4	13.0	5.0	0.5	0.7	11.9
		Total Aggregate Noise Exposure from Decomissioning and Reclamation Phase										**69.5**																

FHWA RCNM Emulator - Construction Noise Prediction

Stationary Source(s) of Noise at each Project Phase | offsite receiver position at | first floor level

Barrier insertion loss calculations below based upon FTA *Transit Noise and Vibration Impact Assessment* (2006)

To User: bordered cells are inputs, unbordered cells have formulae
enter "0" to turn off air or grnd absorption terms, "1" to turn on

apply air absorption? 1
apply ground absorption? 1

magnitude of threshold (dBA) = 60
allowable hours over which Leq is to be averaged = 1

Source, receptor, and barrier all share same reference grade elevation; unless otherwise noted)
8 = Barrier of input height inserted between source and receptor

Project Phase No.	Project Phase Description	Comparable FHWA RCNM Construction Equipment Type	Quantity	AUF % (from FHWA RCNM)	Reference Lmax @ 50 ft. from FHWA RCNM	Source to NSR Distance (ft.)	*Temporary Barrier Insertion Loss (dB)*	*Additional Noise Reduction*	Distance-Adjusted Lmax	Allowable Operation Time (hours)	Allowable Operation Time (minutes)	Predicted 1-hour Leq	Source Elevation (ft)	Receiver Elevation (ft)	Barrier Height (ft)	Source to Barr. ("A") Horiz. (ft)	Rcvr. to Barr. ("B") Horiz. (ft)	Source to Rcvr. ("C") Horiz. (ft)	"A" (ft)	"B" (ft)	"C" (ft)	Path Length Diff. "P" (ft)	Abarr (dB)	Heff (with barrier)	Heff (wout barrier)	G (with barrier)	G (without barrier)	ILbarr (dB)
1	Site Preparation, Fencing, and Ingress/Egress	tractor	0	40	84	110	0		0.0	1	60	0	5	5	0	5	105	110	7.1	105.1	110.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
		grader	0	40	85	110	0		0.0	1	60	0	5	5	0	5	105	110	7.1	105.1	110.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
		dump truck	0	40	76	110	0		0.0	1	60	0	5	5	0	5	105	110	7.1	105.1	110.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
		compactor (ground)	0	20	80	110	0		0.0	1	60	0	5	5	0	5	105	110	7.1	105.1	110.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
		front end loader	0	40	79	110	0		0.0	1	60	0	5	5	0	5	105	110	7.1	105.1	110.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
		scraper	0	40	84	110	0		0.0	1	60	0	5	5	0	5	105	110	7.1	105.1	110.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
		Total Aggregate Noise Exposure from Site Preparation, Fencing, and Ingress/Egress Phase										**0.0**																
2	Civil Improvements - Grading/Roads/Earthwork	tractor	0	40	84	110	0		0.0	1	60	0	5	5	0	5	105	110	7.1	105.1	110.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
		grader	0	40	85	110	0		0.0	1	60	0	5	5	0	5	105	110	7.1	105.1	110.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
		dump truck	0	40	76	110	0		0.0	1	60	0	5	5	0	5	105	110	7.1	105.1	110.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
		compactor (ground)	0	20	80	110	0		0.0	1	60	0	5	5	0	5	105	110	7.1	105.1	110.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
		front end loader	0	40	79	110	0		0.0	1	60	0	5	5	0	5	105	110	7.1	105.1	110.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
		scraper	0	40	84	110	0		0.0	1	60	0	5	5	0	5	105	110	7.1	105.1	110.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
		Total Aggregate Noise Exposure from Civil Improvements - Grading/Roads/Earthwork Phase										**0.0**																
3	PV Panel and BESS Construction	compressor (air)	1	40	78	110	12		56.7	1	60	53	5	5	8	5	105	110	5.8	105.0	110.0	0.87	12.4	13.0	5.0	0.5	0.7	11.9
		tractor	0	40	84	110	0		0.0	1	60	0	5	5	0	5	105	110	7.1	105.1	110.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
		generator	2	50	72	110	12		50.7	1	60	51	5	5	8	5	105	110	5.8	105.0	110.0	0.87	12.4	13.0	5.0	0.5	0.7	11.9
		all other equipment > 5 hp	0	50	85	110	0		0.0	1	60	0	5	5	0	5	105	110	7.1	105.1	110.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
		Gradall	0	40	83	110	0		0.0	1	60	0	5	5	0	5	105	110	7.1	105.1	110.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
		front end loader	0	40	79	110	0		0.0	1	60	0	5	5	0	5	105	110	7.1	105.1	110.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
		slurry trenching machine	0	50	80	110	0		0.0	1	60	0	5	5	0	5	105	110	7.1	105.1	110.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
		vibratory pile driver	0	20	95	110	0		0.0	1	60	0	5	5	0	5	105	110	7.1	105.1	110.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
		Total Aggregate Noise Exposure from PV Panel and BESS Construction Phase										**54.8**																
4	Testing and Comissioning	N/A	N/A	#N/A	#N/A	110	0		#N/A	1	60	#N/A	5	5	0	5	105	110	7.1	105.1	110.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
		Total Aggregate Noise Exposure from Testing and Comissioning Phase										**#N/A**																
5	Decomissioning and Reclamation	compressor (air)	1	40	78	110	12		56.7	1	60	53	5	5	8	5	105	110	5.8	105.0	110.0	0.87	12.4	13.0	5.0	0.5	0.7	11.9
		tractor	0	40	84	110	0		0.0	1	60	0	5	5	0	5	105	110	7.1	105.1	110.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
		generator	2	50	72	110	12		50.7	1	60	51	5	5	8	5	105	110	5.8	105.0	110.0	0.87	12.4	13.0	5.0	0.5	0.7	11.9
		all other equipment > 5 hp	0	50	85	110	0		0.0	1	60	0	5	5	0	5	105	110	7.1	105.1	110.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
		Gradall	0	40	83	110	0		0.0	1	60	0	5	5	0	5	105	110	7.1	105.1	110.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
		front end loader	0	40	79	110	0		0.0	1	60	0	5	5	0	5	105	110	7.1	105.1	110.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
		Slurry Trenching Machine	0	50	80	110	0		0.0	1	60	0	5	5	0	5	105	110	7.1	105.1	110.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
		vibratory pile driver	0	20	95	110	0		0.0	1	60	0	5	5	0	5	105	110	7.1	105.1	110.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
		Total Aggregate Noise Exposure from Decomissioning and Reclamation Phase										**54.8**																

FHWA RCNM Emulator - Construction Noise Prediction

Mobile Source(s) of Noise at each Project Phase

offsite receiver position at

first floor level

Barrier insertion loss calculations below based upon FTA *Transit Noise and Vibration Impact Assessment* (2006)

To User: bordered cells are inputs, unbordered cells have formulae
enter "0" to turn off air or grnd absorption terms, "1" to turn on

apply air absorption? 1
apply ground absorption? 1

magnitude of threshold (dBA) = 75
allowable hours over which Leq is to be averaged = 1

Source, receptor, and barrier all share same reference grade elevation; unless otherwise noted)
= Barrier of input height inserted between source and receptor

Project Phase No.	Project Phase Description	Comparable FHWA RCNM Construction Equipment Type	Quantity	AUF % (from FHWA RCNM)	Reference Lmax @ 50 ft. from FHWA RCNM	Source to NSR Distance (ft.)	*Temporary Barrier Insertion Loss (dB)*	*Additional Noise Reduction*	Distance-Adjusted Lmax	Allowable Operation Time (hours)	Allowable Operation Time (minutes)	Predicted 1-hour Leq	Source Elevation (ft)	Receiver Elevation (ft)	Barrier Height (ft)	Source to Barr. ("A") Horiz. (ft)	Rcvr. to Barr. ("B") Horiz. (ft)	Source to Rcvr. ("C") Horiz. (ft)	"A" (ft)	"B" (ft)	"C" (ft)	Path Length Diff. "P" (ft)	Abarr (dB)	Heff (with barrier)	Heff (wout barrier)	G (with barrier)	G (without barrier)	ILbarr (dB)
1	Site Preparation, Fencing, and Ingress/Egress	tractor	1	40	84	1390	0		49.0	1	60	45	5	5	0	5	1385	1390	7.1	1385.0	1390.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
		grader	1	40	85	1390	0		50.0	1	60	46	5	5	0	5	1385	1390	7.1	1385.0	1390.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
		dump truck	1	40	76	1390	0		41.0	1	60	37	5	5	0	5	1385	1390	7.1	1385.0	1390.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
		compactor (ground)	1	20	80	1390	0		45.0	1	60	38	5	5	0	5	1385	1390	7.1	1385.0	1390.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
		front end loader	1	40	79	1390	0		44.0	1	60	40	5	5	0	5	1385	1390	7.1	1385.0	1390.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
		scraper	1	40	84	1390	0		49.0	1	60	45	5	5	0	5	1385	1390	7.1	1385.0	1390.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
		Total Aggregate Noise Exposure from Site Preparation, Fencing, and Ingress/Egress Phase										**51.0**																
2	Civil Improvements - Grading/Roads/Earthwork	tractor	1	40	84	1390	0		49.0	1	60	45	5	5	0	5	1385	1390	7.1	1385.0	1390.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
		grader	1	40	85	1390	0		50.0	1	60	46	5	5	0	5	1385	1390	7.1	1385.0	1390.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
		dump truck	1	40	76	1390	0		41.0	1	60	37	5	5	0	5	1385	1390	7.1	1385.0	1390.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
		compactor (ground)	1	20	80	1390	0		45.0	1	60	38	5	5	0	5	1385	1390	7.1	1385.0	1390.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
		front end loader	2	40	79	1390	0		44.0	1	60	43	5	5	0	5	1385	1390	7.1	1385.0	1390.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
		scraper	1	40	84	1390	0		49.0	1	60	45	5	5	0	5	1385	1390	7.1	1385.0	1390.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
		Total Aggregate Noise Exposure from Civil Improvements - Grading/Roads/Earthwork Phase										**51.3**																
3	PV Panel and BESS Construction	compressor (air)	0	40	78	1390	0		0.0	1	60	0	5	5	0	5	1385	1390	7.1	1385.0	1390.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
		tractor	1	40	84	150	0		71.0	1	60	67	5	5	0	5	145	150	7.1	145.1	150.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
		generator	0	50	72	1390	0		0.0	1	60	0	5	5	0	5	1385	1390	7.1	1385.0	1390.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
		all other equipment > 5 hp	1	50	85	1390	0		50.0	1	60	47	5	5	0	5	1385	1390	7.1	1385.0	1390.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
		Gradall	1	40	83	150	0		70.0	1	60	66	5	5	0	5	145	150	7.1	145.1	150.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
		Gradall	1	40	83	1390	0		48.0	1	60	44	5	5	0	5	1385	1390	7.1	1385.0	1390.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
		front end loader	1	40	79	150	0		66.0	1	60	62	5	5	0	5	145	150	7.1	145.1	150.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
		front end loader	1	40	79	1390	0		44.0	1	60	40	5	5	0	5	1385	1390	7.1	1385.0	1390.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
		slurry trenching machine	1	50	80	150	0		67.0	1	60	64	5	5	0	5	145	150	7.1	145.1	150.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
		slurry trenching machine	1	50	80	1390	0		45.0	1	60	42	5	5	0	5	1385	1390	7.1	1385.0	1390.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
		vibratory pile driver	1	20	95	1390	0		60.0	1	60	53	5	5	0	5	1385	1390	7.1	1385.0	1390.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
		Total Aggregate Noise Exposure from PV Panel and BESS Construction Phase										**71.3**																
4	Testing and Comissioning	N/A	N/A	#N/A	#N/A	1390	0		#N/A	1	60	#N/A	5	5	0	5	1385	1390	7.1	1385.0	1390.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
		Total Aggregate Noise Exposure from Testing and Comissioning Phase										**#N/A**																
5	Decomissioning and Reclamation	compressor (air)	0	40	78	1390	0		0.0	1	60	0	5	5	0	5	1385	1390	7.1	1385.0	1390.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
		tractor	1	40	84	1390	0		49.0	1	60	45	5	5	0	5	1385	1390	7.1	1385.0	1390.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
		generator	0	50	72	1390	0		0.0	1	60	0	5	5	0	5	1385	1390	7.1	1385.0	1390.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
		all other equipment > 5 hp	1	50	85	1390	0		50.0	1	60	47	5	5	0	5	1385	1390	7.1	1385.0	1390.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
		Gradall	2	40	83	1390	0		48.0	1	60	47	5	5	0	5	1385	1390	7.1	1385.0	1390.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
		front end loader	2	40	79	1390	0		44.0	1	60	43	5	5	0	5	1385	1390	7.1	1385.0	1390.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
		Slurry Trenching Machine	2	50	80	1390	0		45.0	1	60	45	5	5	0	5	1385	1390	7.1	1385.0	1390.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
		vibratory pile driver	1	20	95	1390	0		60.0	1	60	53	5	5	0	5	1385	1390	7.1	1385.0	1390.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
		Total Aggregate Noise Exposure from Decomissioning and Reclamation Phase										**55.8**																

FHWA RCNM Emulator - Construction Noise Prediction

Stationary Source(s) of Noise at each Project Phase | offsite receiver position at | first floor level

Barrier insertion loss calculations below based upon FTA *Transit Noise and Vibration Impact Assessment* (2006)

To User: bordered cells are inputs, unbordered cells have formulae
enter "0" to turn off air or grnd absorption terms, "1" to turn on

apply air absorption? 1
apply ground absorption? 1

magnitude of threshold (dBA) = 60
allowable hours over which Leq is to be averaged = 1

Source, receptor, and barrier all share same reference grade elevation; unless otherwise noted)
= Barrier of input height inserted between source and receptor

Project Phase No.	Project Phase Description	Comparable FHWA RCNM Construction Equipment Type	Quantity	AUF % (from FHWA RCNM)	Reference Lmax @ 50 ft. from FHWA RCNM	Source to NSR Distance (ft.)	*Temporary Barrier Insertion Loss (dB)*	*Additional Noise Reduction*	Distance-Adjusted Lmax	Allowable Operation Time (hours)	Allowable Operation Time (minutes)	Predicted 1-hour Leq	Source Elevation (ft)	Receiver Elevation (ft)	Barrier Height (ft)	Source to Barr. ("A") Horiz. (ft)	Rcvr. to Barr. ("B") Horiz. (ft)	Source to Rcvr. ("C") Horiz. (ft)	"A" (ft)	"B" (ft)	"C" (ft)	Path Length Diff. "P" (ft)	Abarr (dB)	Heff (with barrier)	Heff (wout barrier)	G (with barrier)	G (without barrier)	ILbarr (dB)
1	Site Preparation, Fencing, and Ingress/Egress	tractor	0	40	84	1390	0		0.0	1	60	0	5	5	0	5	1385	1390	7.1	1385.0	1390.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
		grader	0	40	85	1390	0		0.0	1	60	0	5	5	0	5	1385	1390	7.1	1385.0	1390.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
		dump truck	0	40	76	1390	0		0.0	1	60	0	5	5	0	5	1385	1390	7.1	1385.0	1390.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
		compactor (ground)	0	20	80	1390	0		0.0	1	60	0	5	5	0	5	1385	1390	7.1	1385.0	1390.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
		front end loader	0	40	79	1390	0		0.0	1	60	0	5	5	0	5	1385	1390	7.1	1385.0	1390.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
		scraper	0	40	84	1390	0		0.0	1	60	0	5	5	0	5	1385	1390	7.1	1385.0	1390.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
		Total Aggregate Noise Exposure from Site Preparation, Fencing, and Ingress/Egress Phase										**0.0**																
2	Civil Improvements - Grading/Roads/Earthwork	tractor	0	40	84	1390	0		0.0	1	60	0	5	5	0	5	1385	1390	7.1	1385.0	1390.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
		grader	0	40	85	1390	0		0.0	1	60	0	5	5	0	5	1385	1390	7.1	1385.0	1390.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
		dump truck	0	40	76	1390	0		0.0	1	60	0	5	5	0	5	1385	1390	7.1	1385.0	1390.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
		compactor (ground)	0	20	80	1390	0		0.0	1	60	0	5	5	0	5	1385	1390	7.1	1385.0	1390.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
		front end loader	0	40	79	1390	0		0.0	1	60	0	5	5	0	5	1385	1390	7.1	1385.0	1390.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
		scraper	0	40	84	1390	0		0.0	1	60	0	5	5	0	5	1385	1390	7.1	1385.0	1390.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
		Total Aggregate Noise Exposure from Civil Improvements - Grading/Roads/Earthwork Phase										**0.0**																
3	PV Panel and BESS Construction	compressor (air)	1	40	78	1390	0		43.0	1	60	39	5	5	0	5	1385	1390	7.1	1385.0	1390.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
		tractor	0	40	84	1390	0		0.0	1	60	0	5	5	0	5	1385	1390	7.1	1385.0	1390.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
		generator	1	50	72	1390	0		37.0	1	60	34	5	5	0	5	1385	1390	7.1	1385.0	1390.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
		all other equipment > 5 hp	0	50	85	1390	0		0.0	1	60	0	5	5	0	5	1385	1390	7.1	1385.0	1390.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
		Gradall	0	40	83	1390	0		0.0	1	60	0	5	5	0	5	1385	1390	7.1	1385.0	1390.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
		front end loader	0	40	79	1390	0		0.0	1	60	0	5	5	0	5	1385	1390	7.1	1385.0	1390.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
		slurry trenching machine	0	50	80	1390	0		0.0	1	60	0	5	5	0	5	1385	1390	7.1	1385.0	1390.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
		vibratory pile driver	0	20	95	1390	0		0.0	1	60	0	5	5	0	5	1385	1390	7.1	1385.0	1390.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
		Total Aggregate Noise Exposure from PV Panel and BESS Construction Phase										**40.2**																
4	Testing and Comissioning	N/A	N/A	#N/A	#N/A	1390	0		#N/A	1	60	#N/A	5	5	0	5	1385	1390	7.1	1385.0	1390.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
		Total Aggregate Noise Exposure from Testing and Comissioning Phase										**#N/A**																
5	Decomissioning and Reclamation	compressor (air)	1	40	78	1390	0		43.0	1	60	39	5	5	0	5	1385	1390	7.1	1385.0	1390.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
		tractor	0	40	84	1390	0		0.0	1	60	0	5	5	0	5	1385	1390	7.1	1385.0	1390.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
		generator	1	50	72	1390	0		37.0	1	60	34	5	5	0	5	1385	1390	7.1	1385.0	1390.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
		all other equipment > 5 hp	0	50	85	1390	0		0.0	1	60	0	5	5	0	5	1385	1390	7.1	1385.0	1390.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
		Gradall	0	40	83	1390	0		0.0	1	60	0	5	5	0	5	1385	1390	7.1	1385.0	1390.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
		front end loader	0	40	79	1390	0		0.0	1	60	0	5	5	0	5	1385	1390	7.1	1385.0	1390.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
		Slurry Trenching Machine	0	50	80	1390	0		0.0	1	60	0	5	5	0	5	1385	1390	7.1	1385.0	1390.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
		vibratory pile driver	0	20	95	1390	0		0.0	1	60	0	5	5	0	5	1385	1390	7.1	1385.0	1390.0	0.00	0.1	5.0	5.0	0.7	0.7	0.1
		Total Aggregate Noise Exposure from Decomissioning and Reclamation Phase										**40.2**																

Attachment C

Operation Noise Prediction Model Inputs

Point Sources

Name	Sel.	M.	ID	Result. PWL Day (dBA)	Evening (dBA)	Night (dBA)	Lw / Li Type	Value	norm. dB(A)	Correction Day dB(A)	Evening dB(A)	Night dB(A)	Sound Reduction R	Area (ft^2)	Attenuatic	Operating Time Day (min)	Special (min)	Night (min)	K0 (dB)	Freq. (Hz)	Direct.	Height (ft)	
Substation Transformer				82.7	82.7	82.7	Lw	SubXFRMR		0	0	0								0	(none)	15.5	r
Solar Inverter			SINV	76.6	76.6	76.6	Lw	SCI		0	0	0								0	(none)	5	r
Solar Inverter			SINV	76.6	76.6	76.6	Lw	SCI		0	0	0								0	(none)	5	r
Solar Inverter			SINV	76.6	76.6	76.6	Lw	SCI		0	0	0								0	(none)	5	r
Solar Inverter			SINV	76.6	76.6	76.6	Lw	SCI		0	0	0								0	(none)	5	r
Solar Inverter			SINV	76.6	76.6	76.6	Lw	SCI		0	0	0								0	(none)	5	r
Solar Inverter			SINV	76.6	76.6	76.6	Lw	SCI		0	0	0								0	(none)	5	r
Solar Inverter			SINV	76.6	76.6	76.6	Lw	SCI		0	0	0								0	(none)	5	r
Solar Inverter			SINV	76.6	76.6	76.6	Lw	SCI		0	0	0								0	(none)	5	r
Solar Inverter			SINV	76.6	76.6	76.6	Lw	SCI		0	0	0								0	(none)	5	r
Solar Inverter			SINV	76.6	76.6	76.6	Lw	SCI		0	0	0								0	(none)	5	r
Solar Inverter			SINV	76.6	76.6	76.6	Lw	SCI		0	0	0								0	(none)	5	r
Solar Inverter			SINV	76.6	76.6	76.6	Lw	SCI		0	0	0								0	(none)	5	r
Solar Inverter			SINV	76.6	76.6	76.6	Lw	SCI		0	0	0								0	(none)	5	r
Solar Inverter			SINV	76.6	76.6	76.6	Lw	SCI		0	0	0								0	(none)	5	r
Solar Inverter			SINV	76.6	76.6	76.6	Lw	SCI		0	0	0								0	(none)	5	r
Solar Inverter			SINV	76.6	76.6	76.6	Lw	SCI		0	0	0								0	(none)	5	r
Solar Inverter			SINV	76.6	76.6	76.6	Lw	SCI		0	0	0								0	(none)	5	r
Solar Inverter			SINV	76.6	76.6	76.6	Lw	SCI		0	0	0								0	(none)	5	r
Solar Inverter			SINV	76.6	76.6	76.6	Lw	SCI		0	0	0								0	(none)	5	r
Solar Inverter			SINV	76.6	76.6	76.6	Lw	SCI		0	0	0								0	(none)	5	r
Solar Inverter			SINV	76.6	76.6	76.6	Lw	SCI		0	0	0								0	(none)	5	r

Area Sources

Name	Sel.	M.	ID	Result. PWL Day (dBA)	Evening (dBA)	Night (dBA)	Result. PWL" Day (dBA)	Evening (dBA)	Night (dBA)	Lw / Li Type	Value	norm. dB(A)	Correction Day dB(A)	Evening dB(A)	Night dB(A)	Sound Reduction R	Area (ft²)	Attenuatic Operating Time Day (min)	Special (min)	Night (min)	K0 (dB)	Freq. (Hz)	Direct.
Medium Voltage Transformer			MVT	72.4	72.4	72.4	66.1	66.1	66.1	Lw	MVT		0	0	0						0		(none)

Vertical Area Sources

Name	Sel.	M.	ID	Result. PWL			Result. PWL''			Lw / Li			Correction			Sound Reduction		Attenuatio	Operating Time			K0	Freq.	Direct.
				Day (dBA)	Evening (dBA)	Night (dBA)	Day (dBA)	Evening (dBA)	Night (dBA)	Type	Value	norm. dB(A)	Day dB(A)	Evening dB(A)	Night dB(A)	R	Area (ft²)		Day (min)	Special (min)	Night (min)	(dB)	(Hz)	
Megapack 2XL air intakes			MPAI	78.7	78.7	78.7	73.1	73.1	73.1	Lw	FN03_40		0	0	0			3.5					3	(none)
Megapack 2XL air intakes			MPAI	78.7	78.7	78.7	73.2	73.2	73.2	Lw	FN03_40		0	0	0			3.5					3	(none)
Megapack 2XL air intakes			MPAI	78.7	78.7	78.7	73.1	73.1	73.1	Lw	FN03_40		0	0	0			3.5					3	(none)
Megapack 2XL air intakes			MPAI	78.7	78.7	78.7	73.2	73.2	73.2

Buildings

Name	M.	ID	RB	Residents	Absorptior	Height Begin (ft)	
Solar Inverter		SINV	x	0	0.1	6	r

Sound Levels (local)

Name	ID	Type	1/3 Oktave Spectrum (dB)																												Source
			Weight.	25	31.5	40	50	63	80	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000	6300	8000	10000	A	lin	
Medium Voltage Transformer	MVT	Lw	A		30			49			61			63			69			66			62			57			48		72.4	81.1	EEI EPPENG calcs
FN03 4Hr 5fan MP2XL 100	FN03_100	Lw	A	30.2	37.8	42.6	47	51	54.7	58.1	60.1	59.2	62.3	70.4	75.8	85	81.6	80.8	81.5	84.3	84.1	82.9	82.3	81.9	79.3	77	74.7	70.9	67.3	62.3	93	95.2	Tesla November 2024 FN03 data
FN03 4Hr 5fan MP2XL 90	FN03_90	Lw	A	29.3	37.5	42.3	46.7	50.7	54.4	57.8	62.3	60.1	61.8	68.7	76.3	86.8	76.1	79.7	80.6	81.7	82.3	81.2	80.5	80.2	77.7	75.5	73.2	69.2	65.6	60.4	92	95	Tesla November 2024
FN03 4Hr 5fan MP2XL 80	FN03_80	Lw	A	31	38.3	43.1	47.5	51.5	55.2	58.6	61.3	59.9	61.3	68.1	78.8	87	73.5	79	80.3	80.4	80.3	79.3	78.6	78.4	76.1	74	71.6	67.3	63.4	58.1	91.2	95	Tesla November 2024
FN03 4Hr 5fan MP2XL 70	FN03_70	Lw	A	32.8	38.9	43.7	48.1	52.1	55.8	59.2	59.9	59.5	60.5	67.7	81.4	85.7	71.3	78.4	79.3	79	78.1	77.2	76.5	76.5	74.3	72.3	69.7	65.2	61.1	55.7	90.1	94.6	Tesla November 2024
FN03 4Hr 5fan MP2XL 60	FN03_60	Lw	A	30.9	37.6	42.4	46.8	50.8	54.5	57.9	57.9	57.8	58.6	68.6	82.9	76.4	69.9	78.4	74.5	77.2	75.9	74.8	74.2	74.4	72.4	70	67.2	62.5	58.3	52.8	87.5	92.6	Tesla November 2024
FN03 4Hr 5fan MP2XL 50	FN03_50	Lw	A	31.2	37.6	42.4	46.8	50.8	54.5	57.9	59	57.3	58.2	72.4	79.8	70.8	69.4	75.8	71.3	74.6	73.3	72.1	71.7	72	69.9	67.2	64.2	59.3	55	49.5	84.8	90.7	Tesla November 2024
FN03 4Hr 5fan MP2XL 40	FN03_40	Lw	A	33.5	38.5	43.3	47.7	51.7	55.4	58.8	62.1	57.8	59.3	77	72.7	68.2	69.3	71.2	69.3	71.2	70.2	69.2	69	69.2	66.8	63.8	60.6	55.4	51	45.7	82.2	90.4	Tesla November 2024
75/100/125 MVA Substation Transformer	SubXFRMR	Lw	A					64.4			75.8			73.9			79.6			73.7			66.6			60.3			52.7		82.7	94.9	HGC Engineering 2016, 75/100/125 MVA XFRMR
Solar collection inverter	SCI	Lw	A		34.2			53.2			65.2			67.2			73.2			70.2			66.2			61.2			52.2		76.6	85.3	Maddox overall data w/ EEI EPPENG spectra

Appendix I
Trip Generation Memorandum

DRAFT

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MEMORANDUM

To:	Pronghorn Solar Plus, LLC
From:	Lisa Valdez, Senior Transportation Planner
Subject:	Pronghorn Solar and Storage Project Trip Generation Study
Date:	October 2025
cc:	Erin Phillips, Project Manager, Dudek
Attachments	Attachment A: Project Site Plan

Dudek has prepared the following trip generation study for the proposed Pronghorn Solar and Storage Project (Project), a utility-scale photovoltaic (PV) solar energy generation and battery energy storage system (BESS) within unincorporated Los Angeles County, California in the Antelope Valley. The following analysis has been prepared consistently with the Los Angeles County Transportation Impact Analysis Guidelines (July 23, 2020), the Los Angeles County General Plan Circulation Element, and the current CEQA guidelines which requires that transportation impacts, analyzed under CEQA, be based on vehicle miles traveled (VMT). The memo describes the existing transportation setting, describes the proposed Project operations, presents the estimated project trip generation during peak construction, provides a VMT screening analysis, and provides recommendations for a Traffic Control Plan.

1 Project Description

The Project location is shown as Figure 1 and the Project Site Plan is provided as Attachment A. The Project site is located near the intersection of 90th Street East and East Avenue L, approximately 10 miles east of State Route 14 (SR-14), in unincorporated Los Angeles County. The Project will have up to a 50-megawatt (MW) PV solar power capacity, and the associated BESS will have up to a 50 MW power capacity. The Project will include construction of collection lines and a Project substation, which will connect the Project to the existing Southern California Edison (SCE) Piute Substation. A generation transmission (gen-tie) line will directly connect the Project substation to the existing SCE Piute Substation.

The PV solar and BESS facility will operate seven days a week, 24 hours a day. Maintenance activities may occur seven days a week, 24 hours a day to ensure PV panel output when solar energy is available, while the BESS could dispatch energy at any time during the day or night. It is assumed that there would be one employee checking the site up to two times per week, on an as needed basis. It is expected that the Project will not require routine permanent operational staff.

Construction and operation traffic will access the Project site from 90th Street E, E Avenue K, and E Avenue L, depending on the portion of the Project site to access. Driveways and parking lot entrances will be constructed in

accordance with County improvement standards. Per the Department of Public Works, roadway improvements will be required.

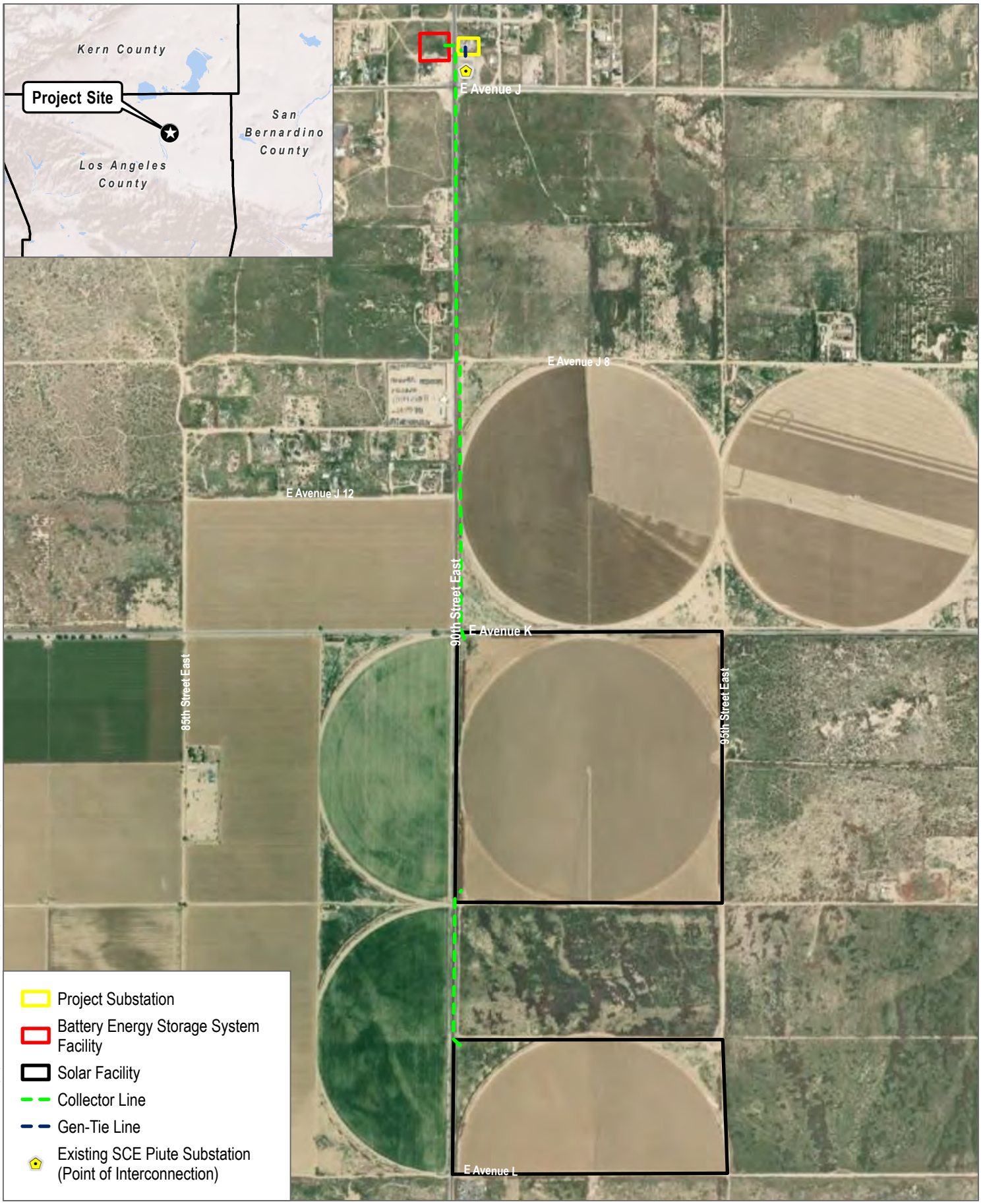
2 Transportation Setting

The Project site is in a rural area surrounded by vacant land and scattered residences (see Figure 1). Delivery of material and supplies will reach the site through on-road truck delivery through SR-14. A description of the nearby roads serving the on and off-site facilities is provided below.

- **SR-14 (Antelope Valley Freeway)** is a north-south freeway that extends from the northern Mojave Desert to Los Angeles. In the Project vicinity, SR-14 has two lanes in each direction. Northbound and southbound on- and off- ramps are provided at West Avenue K, approximately 10 miles west of the Project Site. SR-14 is a designated truck route on the National Network (STAA).
- **East Avenue K** is an east-west undivided two-lane road with no shoulders. Avenue K is an existing Major Highway in the County's Highway Master Plan[1] and is also a County designated truck route for its entire length within the City of Lancaster[2].
- **90th Street East** is a north-south undivided two-lane road with no shoulders. 90th Street East is an existing Major Highway in the County's Highway Master Plan[3] and is also a County designated truck route for its entire length within the City of Lancaster[4].
- **Avenue L** is an east-west undeveloped roadway bordering the site on the south. Avenue L is a proposed Expressway in the County's Highway Master Plan[5].

The Project site is in a generally undeveloped area with no pedestrian, bicycle, or transit facilities in the immediate area.

[1] Los Angeles County. 2022. Los Angeles County Master Plan of Highways- North Half. March.
[2] Los Angeles County. 2020. Los Angeles County Department of Public Works. Incorporated Cities- Permit Issuance Authority.
[3] Los Angeles County. 2022. Los Angeles County Master Plan of Highways- North Half. March.
[4] Los Angeles County. 2020. Los Angeles County Department of Public Works. Incorporated Cities- Permit Issuance Authority.
[5] Los Angeles County. 2022. Los Angeles County Master Plan of Highways- North Half. March.



SOURCE: World Imagery

DUDEK

0 500 1,000 Feet

FIGURE 1

Project Location

Pronghorn Solar and Storage Project

3 Project Construction

The Project is anticipated to be built over an approximately 12-month period from the onset of site preparation activities through testing and commissioning of the facility, including construction of the gen-tie line. It is anticipated that construction crews will work 8 to 10 hours per day, with work occurring Monday through Friday in accordance with County noise ordinances. Typical construction traffic will consist of construction workers and trucks transporting construction equipment and materials to and from the Project site (e.g., vendor and heavy haul trips). Heavy construction equipment will be operating at the site five days per week (22 days per month). The Project construction phases, schedule, and daily construction related traffic by phase is presented in Table 1.

Table 1. Estimated Construction Phases and Activity

Construction Activity	Duration	Average Daily Workforce Trips	Average Daily Vendor Trips	Average Daily Haul Truck Trips
1. Site Preparation, Fencing, Ingress/Egress	10 Weeks	40	20	0
2. Civil Improvements – Grading/Roads/Earthwork	3 Months	80	16	104
3. PV, BESS, and Project Substation Construction and Interconnection	6 Months	200	16	4
4. Testing and Commissioning	6 Weeks	30	8	0
5. Decommissioning and Reclamation	6 Months	200	16	6

3.1 Trip Generation

Project construction will include several simultaneous phases: site preparation, fencing, and site access; grading, roads, and earthwork; and PV panel and battery/container construction. The timing and length of each phase over the 12-month construction period was evaluated to identify which phases could occur concurrently to determine peak worker and truck traffic, since traffic during these overlapping phases will be additive. Overlap of Phases 1 through 3 is estimated to generate the peak worker and truck traffic during the 12-month construction period.

For the purposes of this analysis, it assumed that the construction work will be completed between 6:00 a.m. and 7:00 p.m., Monday through Friday. As a conservative estimate it is assumed that 85 percent of the workforce-related trips will arrive and depart during peak hours. Truck traffic to and from the site was evenly distributed assuming a 10-hour workday. Table 2 presents the Project trip generation for the peak construction period.

To address the effect caused by large over-sized trucks onto the roadway network, a factor called the passenger car equivalent (PCE) was developed and represents the number of passenger cars displaced by each truck in the traffic stream under mixed flow conditions. PCE factors generally range from 1.5 to 3.0 based on the number of axles in the truck. A PCE factor of 2.0 has been utilized to convert vendor truck trips, and a PCE factor of 3.0 has been used to convert haul truck trips into equivalent car trips for the Project construction trip generation analysis.

Table 2. Peak Construction Project Trip Generation Summary

Vehicle Type	Daily Trips	AM Peak Hour[1]			PM Peak Hour[1]		
		In	Out	Total	In	Out	Total
Trip Generation							
Workforce Trips[2]	320	272	0	272	0	272	272
Vendor Trucks[3]	52	5	0	5	0	5	5
Heavy Haul Trucks[3]	108	11	0	11	0	11	11
Truck Trip Generation w/PCE[1]							
Vendor Trucks (2.0 PCE)[3]	104	10	0	10	0	10	10
Vendor Trucks (3.0 PCE)[3]	324	33	0	33	0	33	33
Total (w/PCE)	**428**	**43**	**0**	**43**	**0**	**43**	**43**

Notes: PCE = Passenger Car Equivalent

1. Construction hours assumed to range from 6:00 a.m. – 7:00 p.m., with the 85% of workers expected to arrive during the morning peak hours (7:00 a.m. – 9:00 a.m.) and exit during the afternoon peak hours (4:00 p.m. – 6:00 p.m.).
2. All workers assumed to drive to the site individually; no carpooling reductions taken for the purposes of this analysis.
3. Vendor and haul trucks assumed to be spread out evenly across a 10-hour workday.

As shown in the table, the peak construction phases will temporarily generate 320 total daily workforce trips, 272 AM peak hour workforce trips, and 272 PM peak hour workforce trips. With the application of PCE factors to truck trips, the Project will generate 428 total daily PCE truck trips, and 43 PCE truck trips during the AM peak hour and 43 PCE truck trips during the PM peak hour.

4 Vehicle Miles Traveled Analysis

On September 27, 2013, Governor Brown signed Senate Bill (SB) 743, with the purpose of streamlining the California Environmental Quality Act (CEQA) review process for several categories of development projects. A key element of SB 743, is the elimination of automobile delay and level of service (LOS) as the sole basis of determining CEQA impacts. The most recent CEQA guidelines, released in December 2018, recommend VMT as the most appropriate measure of project transportation impacts. In accordance with SB 743, the County has adopted guidelines, impact thresholds, and mitigation requirements for evaluating VMT. Per the County's TIA Guidelines[6] and the Office of Planning and Research (OPR) Technical Advisory on Evaluating Impacts in CEQA[7], certain types of projects are presumed to have a less-than-significant impact and a numerical VMT analysis is not required (OPR 2018). This includes a presumption of less-than-significant impacts for small projects (defined as projects that generate 110 net new daily trips or less). The OPR has also clarified in its Technical Advisory that heavy-duty truck VMT is not required to be included in the estimation of a project's VMT. A VMT screening analysis is presented in the following section.

Construction

The Project is estimated to generate approximately 320 daily trips during the peak construction period, associated with the construction workers commuting to and from the site. However, the construction workers would be pulled from

[6] Los Angeles County. 2020. Los Angeles County Transportation Impact Analysis Guidelines. July 23.
[7] Office of Planning and Research. 2018. Technical Advisory on Evaluating Impacts in CEQA.

the existing regional road network and would not result in a net increase in new trips. Construction workers already commute to jobs in the region and would be temporarily redistributed to the site for the duration of the project construction. Therefore, the project construction meets the small project screening criteria (generating less than 110 daily net new trips) and impacts related to construction VMT will be less than significant.

Project Operations

As previously noted, it is assumed that there would be one employee visiting the site up to two times per week for maintenance activities, on an as needed basis. There would be no other permanent operational staff required. Based on the maintenance activities, the project trip generation was estimated for an annualized average day. The project trips are presented in Table 3 below.

Table 3. Project Operations Annual Average Trips per Day

Maintenance Staff	Visits per Week	Visits per Year	Trips per Year	Annual Average Trips per Day
1	2	104	208	<1

Notes:

1. One employee would visit the site up to 2 times per week. This equates to 104 visits per year. Assuming one incoming and one outgoing trip per visit, there would be 208 trips per year, equal to annual average of 1 trip per day.

As shown above, the project would generate an annual average of one trip per day and therefore meets the County's small project screening criteria (projects generating less than 110 daily vehicle trips). Therefore, the Project is screened from conducting a VMT analysis and impacts during project operations are presumed to be less than significant.

5 Recommended Traffic Control Measures

Construction and operation traffic will access the Project site from 90th Street E, E Avenue K, and E Avenue L, depending on the portion of the Project site to access. All site access driveways will be perpendicular to existing roads, are not located near sharp curves or steep grades, and will not cause hazards due to a geometric design feature.

Construction of the collection and/or gen-tie line may require limited single-lane closures and/or complete road closures to allow construction personnel to safely construct. It recommended that the Project implement a Traffic Control Plan for roadway facilities that may be impacted during the construction phase, related to lane closures, heavy trucks, and peak construction traffic arriving to and departing from the site.

The Traffic Control Plan will be implemented in accordance with the California Manual on Uniform Traffic Control Device (CAMUTCD) to minimize temporary construction-related traffic impacts. The Traffic Control Plan will be coordinated with the County of Los Angeles and any necessary encroachment and trip permits for any specialized haul trucks will be obtained prior to commencing work. Potential components of the Traffic Control Plan may include, but not be limited to:

- Truck travel restricted to County designated truck routes

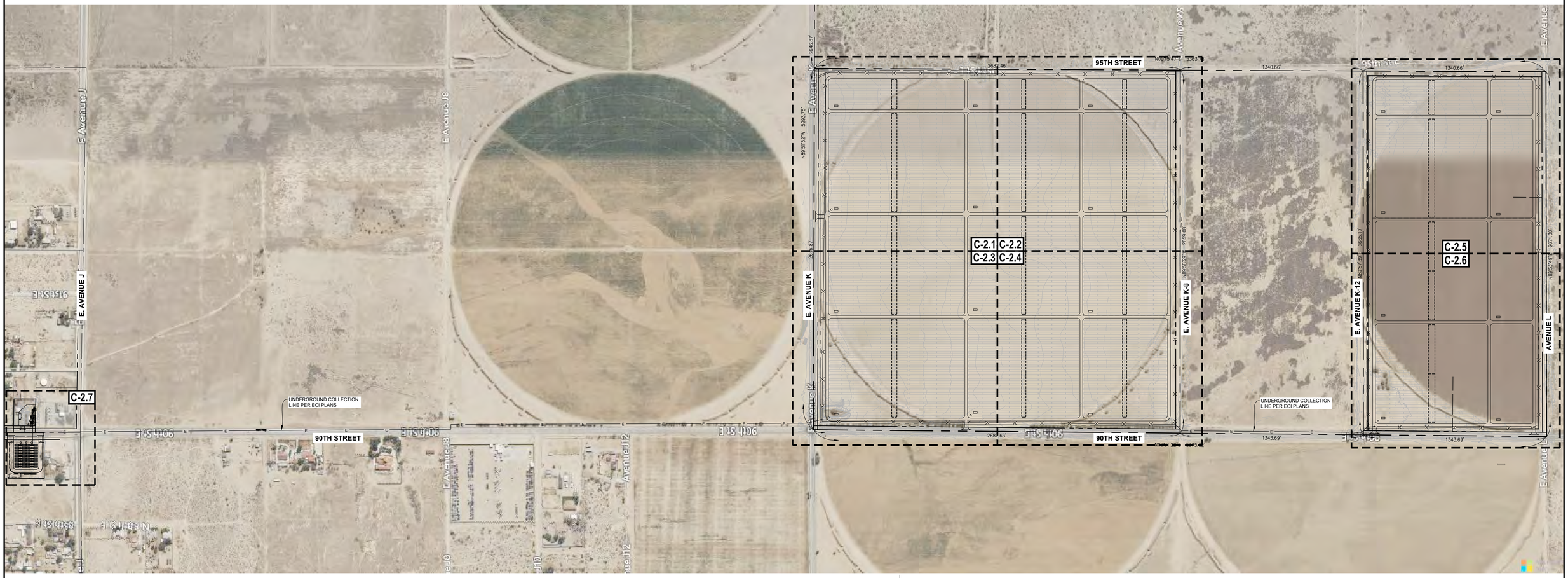
- Signage to meet County requirements for driver awareness of project construction traffic
- Limit time for heavy truck deliveries
- Use of flaggers and applicable traffic control signs at key locations
- Informing emergency service providers of construction traffic schedule

6 Summary

The key findings of the transportation analysis in this memo are summarized below:

- The Project will generate an annual average of less than one trip per day during Project operations and will have no impact on the surrounding roadways or intersections. The Project is also screened from conducting a VMT analysis because it meets the County's small project screening criteria (projects generating less than 110 daily vehicle trips). Therefore impacts are presumed to be less than significant.
- The peak construction phases will temporarily generate 320 total daily workforce trips, 272 AM peak hour workforce trips, and 272 PM peak hour workforce trips. The project would also generate 160 total daily truck trips, 16 AM peak hour truck trips, and 16 PM peak hour truck trips. With the application of PCE factors to the truck trips, the Project will generate 428 total daily PCE truck trips, and 43 PCE truck trips during the AM peak hour and 43 PCE truck trips during the PM peak hour.
- Because the construction workers would be pulled from the existing regional network and would not result in a net increase in new trips, the project construction meets the small project screening criteria (less than 110 daily net new trips). Impacts related to construction VMT will be less than significant.
- The Project site is in a generally undeveloped area with no pedestrian, bicycle, or transit facilities in the immediate area. There will be no impact to these types of facilities.
- It is recommended that the Project implement a Traffic Control Plan during construction to minimize temporary construction-related traffic impacts related to potential full or partial road closures, oversized slow moving trucks and construction traffic arriving and departing during peak hours.

Attachment A



KEY MAP
SCALE: 1" = 250'

IMPORTANT NOTICE

ALL UTILITY LOCATIONS ARE APPROXIMATE CONTRACTOR IS TO NOTIFY UNDERGROUND SERVICE ALERT TWO WORKING DAYS PRIOR TO STARTING ANY EXCAVATION OR RESURFACING.

CALL TOLL FREE 1-800-422-4133

PRELIMINARY SITE PLAN / KEY MAP

PRONGHORN SOLAR AND STORAGE PROJECT

UNINCORPORATED LOS ANGELES COUNTY, CALIFORNIA

C-1.1

DATE: 09/26/2025

F&A
CIVIL ENGINEERING • PLANNING
CONSTRUCTION ENGINEERING

F..... ASSOCIATES, INC.
115 W. Canon Perdido Street
Santa Barbara, CA 93101
Telephone (805) 966-2224

BY: _____ DATE: 9/26/2025

ROBERT A. SWANSON No. 71335 CIVIL STATE OF CALIFORNIA

PLOTTED: Monday, September 29, 2025 10:12:36 AM 24030_PRELIMINARY PLANS.DWG

W.O. 24030

Appendix J

Water Supply Assessment

DRAFT

DRAFT

Water Supply Assessment

Pronghorn Solar and Storage Project

APRIL 2025

Prepared for:

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APPENDIX

A Well Logs

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Acronyms and Abbreviations

Acronym/Abbreviation	Definition
AF	acre-feet
AFY	acre-feet per year
AVEK	Antelope Valley-East Kern Water Agency
Basin	Antelope Valley Groundwater Basin
bgs	below ground surface
CWC	California Water Code
District 40	Los Angeles County Waterworks District No. 40
DWR	California Department of Water Resources
ETc	crop evapotranspiration
ETo	reference evapotranspiration
GPM	gallons per minute
Judgment	Antelope Valley Groundwater Basin Judgment
Physical Solution	Antelope Valley Groundwater Basin Physical Solution
Project	Pronghorn Solar and Storage Project
SB	senate bill
SWP	State Water Project
UWMP	urban water management plan
Watermaster	Antelope Valley Groundwater Basin Watermaster
WRP	Water Reclamation Plant
WSA	water supply assessment
WSCP	water shortage contingency plan

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1 Introduction

1.1 Purpose of Document

Senate Bill (SB) 610 was passed on January 1, 2002, amending the California Water Code (CWC) to require detailed analysis of water supply availability for certain types of development projects. The primary purpose of SB 610 is to improve the linkage between water and land use planning by ensuring greater communication between water providers and local planning agencies, and to ensure that land use decisions for certain large development projects are fully informed as to whether a sufficient water supply is available to meet project demands. SB 610 requires preparation of a water supply assessment (WSA) for a project that is subject to the California Environmental Quality Act and meets certain requirements. SB 610 is codified in CWC Division 6, Part 2.10 (Sections 10910–10915).

The Pronghorn Solar and Storage Project (Project) has been determined to be subject to the California Environmental Quality Act, with the County of Los Angeles acting as lead agency. The lead agency will make an independent determination as to whether there is adequate water supply for the proposed Project, having considered the entire administrative record. In compliance with SB 610, this WSA examines the availability of the identified water supply during normal, single dry, and multiple dry years over a 20-year projection, accounting for the projected water demand of the Project plus other existing and planned future uses of the identified water supply.

1.2 Project Location and Description

The Project, as proposed by Pronghorn Solar Plus LLC, would be located on approximately 243 acres of land near the intersection of 90th Street East and East Avenue L, approximately 10 miles east of State Route 14, in unincorporated Los Angeles County in the Antelope Valley. The site is composed of Assessor's Parcel Numbers 3378-003-001, 3378-004-008, 3376-006-012, and 3376-011-035 (See Figure 1). The Project site is located within the U.S. Geological Survey 7.5-minute Alpine Butte quadrangle and Township 7 North, Range 10 West, Section 29 of the San Bernardino Base and Meridian. The Project's PV facility will be located on APNs 3378-003-001 and 3378-004-008 owned by Bolthouse Land Company LLC, a subsidiary of Bolthouse Properties LLC. The Project's BESS facility will be located on APN 3376-006-012 and the Project substation will be located on APN 3376-011-035. The medium voltage collection lines will be located on the western perimeter of APNs 3376-026-026, -027, -028, -029, -030, -031, -032, and -033 which are located in the City of Lancaster and the remainder of the PV collection lines will be located via Franchise Agreement within 90th Street East existing road right-of-way. The existing SCE Piute Substation is located on APN 3376-011-800.

The topography of the Project area is relatively flat, consisting primarily of fields and roads. The PV facility parcels have been extensively cleared, plowed, and maintained for agricultural production. The BESS facility parcel is undeveloped land, and the Project substation parcel is developed with existing structures.

The Project includes the construction and operation of a 50-megawatt photovoltaic solar energy generation and 50-megawatt battery energy storage system. The Project will include construction of collection lines and a Project substation, which will connect the Project to the existing Southern California Edison (SCE) Piute Substation. A generation transmission (gen-tie) line will directly connect the Project substation to the existing SCE Piute Substation. Two 10,000 gallon above-ground water storage tanks will be installed onsite adjacent to the BESS

facility. The storage tank(s) will be sized in accordance with County and fire department requirements and have the appropriate fire department connections to be used for fire suppression purposes.

1.3 Water Supply Assessment Applicability

SB 610 amended CWC Sections 10910 and 10912 to create a direct relationship between water supply and land use. SB 610 establishes the legal framework for assessing the sufficiency of water supply for new developments that qualify as a "project". Per CWC Section 10912(a), a "project" means any of the following:

- Proposed residential development of more than 500 dwelling units.
- Proposed shopping center or business establishment employing more than 1,000 persons, or having more than 500,000 square-feet of floor space.
- Proposed commercial office building employing more than 1,000 persons or having more than 250,000 square-feet of floor space.
- Proposed hotel or motel or both, having more than 500 rooms.
- Proposed industrial, manufacturing, or processing plant, or industrial park planned to house more than 1,000 persons, occupying more than 40 acres of land, or having more than 650,000 square-feet of floor area.
- Proposed mixed-use project that includes one or more of the above components.
- Proposed project that would demand an amount of water equivalent to, or greater than, the amount of water required by a 500 dwelling unit project.

The CWC, as amended by SB 610, requires that a WSA include a discussion of whether:

- The project will be served by a public water system (CWC Section 10910(b)).
- The project water demand is included in a current urban water management plan (UWMP) (CWC Section 10910(c)).
- There are any existing water supply entitlements, water rights, or water service contracts relevant to the identified water supply for the proposed project (CWC Section 10910(d)).
- Groundwater will serve as a source of water supply for the project (CWC Section 10910(f)).

Based on the characterization of these water supplies and constraints, the WSA is required to provide a discussion of whether the total projected water supplies available during normal, single dry, and multiple dry years during a 20-year projection will meet the projected water demand associated with the proposed project, in addition to existing and planned future uses, including agricultural and manufacturing uses (CWC Section 10910(b)(3) and (4)).

As a proposed industrial facility occupying more than 40 acres of land, the Project qualifies as a "project" under CWC Section 10912(a). Accordingly, the proposed Project is subject to SB 610 and requires preparation of a WSA.

1.3.1 Identification of a Public Water System

Section 10912 of the CWC defines a "public water system" as a system that has 3,000 or more service connections and provides piped water to the public for human consumption. Under SB 610, WSA reports must be prepared and

furnished to local governments by the water utility serving that community for inclusion in any environmental documentation for projects meeting the specified requirements under Section 10912(a) of the CWC and subject to the California Environmental Quality Act. According to CWC Section 10910(g)(1), "the governing body of each public water system, or the city or county if either is required to comply with this act … shall approve the assessment prepared pursuant to this section at a regular or special meeting." According to SB 610, the public water system serving the project site is required to prepare the WSA report.

The Project site is located within the service area of Antelope Valley-East Kern Water Agency (AVEK) and is immediately adjacent to Los Angeles County Waterworks District No. 40 (District 40; Figure 2). Other nearby public water systems include Aqua J. Mutual Water Company, Colorado Mutual Water Company, and Reesedale Mutual Water Company, all of which are small community water systems that rely on local groundwater as their source of supply (Figure 2).

AVEK is a wholesale supplier of State Water Project (SWP) water. AVEK provides water to 27 retail water agencies, water companies, and agricultural customers in northern Los Angeles and eastern Kern Counties, as well as a small portion of Ventura County. AVEK primarily supplies imported water from the SWP; however, it also supplies local groundwater and banked SWP supplies (AVEK 2021a).

District 40 is a retail water district formed to supply drinking water for urban use in Antelope Valley. District 40 is operated by the Los Angeles County Public Works, Waterworks Division and is governed by the Los Angeles County Board of Supervisors. District 40 currently serves approximately 205,000 people and 58,607 metered connections. District 40's water supply includes groundwater pumped from approximately 54 wells owned and operated by District 40, and imported water from AVEK (LACWD 2021).

1.3.2 Urban Water Management Plan Coverage

UWMPs are prepared by California's urban water suppliers to support long-term resource planning and ensure adequate water supplies. UWMPs must be updated and submitted to the California Department of Water Resources (DWR) every five years for review and approval. DWR has identified the UWMP as a foundational document in the preparation of a WSA, noting that a thorough UWMP can provide the required information to fulfill the standards set forth by SB 610. Every urban water supplier that either delivers more than 3,000 acre-feet per year (AFY) of water annually or serves more than 3,000 connections is required to assess the reliability of its water sources over a 20-year period during normal, single dry, and multiple dry years; these are the same requirements of a WSA as specified by SB 610. A WSA may also rely on additional water supply data beyond the information in the UWMP.

District 40's and AVEK's UWMPs serve as foundational planning documents and include descriptions of historical and projected water demands, water supplies, and the resulting reliability during a set of defined water supply conditions over a 20-year planning horizon. A description of District 40's and AVEK's 2020 UWMPs, as well as other applicable water resources plans, is provided in Section 5, Water Management Plans and Programs, of this WSA. This WSA uses information provided in District 40's and AVEK's 2020 UWMPs to help assess water supply reliability for the Project. The water demand of the Project is not accounted for in District 40's or AVEK's UWMPs.

1.3.3 Groundwater as a Component of Project Water Supply

The Project site is located in the Antelope Valley Groundwater Basin (Basin; Figure 3). The Basin (DWR Basin No. 6-044) is adjudicated, groundwater pumping allocations have been defined, and a watermaster has been appointed

to sustainably manage the Basin. As an adjudicated basin, the Basin is not subject to the Sustainable Groundwater Management Act of 2014.

Whether obtained from onsite or offsite wells, or from a public water system, groundwater from the Basin is the primary local water supply and a likely source of Project water supply. Aqua J. Mutual Water Company, Colorado Mutual Water Company, Reesedale Mutual Water Company, District 40, and AVEK all pump groundwater from the Basin (AVEK 2021a; LACWD 2021; SWRCB 2024).

2 Water Demand

2.1 Historical Project Site Water Demand

The majority of the Project site was historically used for growing agricultural crops and is zoned as A-2-2, Heavy Agriculture (Figure 4). Crop irrigation demands were presumably satisfied by groundwater from onsite wells; however, no production records are available. Therefore, historical agricultural water use at the Project site was estimated to compare to the Project water demand. To estimate historical water use, the water required for the agricultural crops historically grown at the Project site was calculated using the crop evapotranspiration (ETc) method which relies on the following equation:

$$ETc = ETo \times Kc$$

Where:

Etc = crop evapotranspiration
Eto = reference evapotranspiration
Kc = crop coefficient

Reference evapotranspiration (Eto) is based on the potential evapotranspiration from turf grass/alfalfa crop. According to the reference evapotranspiration zones map of California developed by the California Irrigation Management Information System, the Project site is located in Eto Zone 17, with a total of 66.5 inches of Eto per year (Table 1; CIMIS 1999).

Table 1. Monthly Average Reference Evapotranspiration for Zone 17

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
1.86	2.80	4.65	6.00	8.06	9.00	9.92	8.68	6.60	4.34	2.70	1.86	66.50

Source: CIMIS 1999.
Notes: All values are in inches.

Crop coefficients are numbers specific to each crop type used to estimate Etc by multiplying Eto by the crop coefficient, as shown in the equation above. Crop development is divided into three phases—initial growth, mid-season stage, and end of the late season stage (Allen et al. 1998).

Crop coefficients were selected based on the crop type historically grown at the Project site. The crop type historically grown at the Project site was determined to be alfalfa based on review of DWR's Statewide Crop Mapping dataset and Google Earth aerial/satellite imagery (Figure 3; DWR 2024a; Google Earth 2024). Based on the most current aerial/satellite imagery, the Project site appears fallow (Google Earth 2024).

Table 2. Crop Types and Coefficients

Crop Type	Crop Coefficient			
	Kc-Initial	Kc-Mid	Kc-End	Average
Alfalfa	0.40	1.20	1.15	0.92

Source: Allen et al. 1998.
Notes: Kc = crop coefficient.

Crop evapotranspiration is affected by many factors including irrigation method, soil type, percent land cover, and depth to groundwater. For the purposes of estimating historical water use at the Project site, several simplifying assumptions were made:

- Only one crop is planted per year and the growing season is conservatively estimated to be six months
- Irrigation water is applied only during the six months when the crop is being cultivated
- Rainfall is not a source of water for the crops
- Uncultivated/idle land is not irrigated
- The groundwater table is beyond the rooting zone of the crops

Based on the simplifying assumptions described above, and by multiplying ETc (0.42 feet per month) by the crop acreage (189.91 acres) and the duration of the growing season (6 months), the estimated historical water use at the Project site was approximately 479 AFY (Table 3).

Table 3. Crop Evapotranspiration and Estimated Historical Water Demand Summary

Crop Type	Average Kc	Average Eto (in/mo)	Etc (ft/mo)	Irrigation Period (mo)	Area (acres)	Annual Water Demand (AFY)
Alfalfa	0.92	5.54	0.42	6	189.91	478.57

Source: Allen et al. 1998; CIMIS 1999.
Notes: Kc = crop coefficient; Eto = reference evapotranspiration; Etc = crop evapotranspiration; in = inches; mo = month; ft = feet; AFY = acre-feet per year.

2.2 Proposed Project Water Demand

The Project is anticipated to be built over an approximately 12-month period from the onset of site preparation activities through testing and commissioning of the facility. A maximum of 85 AF of water will be required during construction. This equates to an amortized pumping rate of approximately 53 gallons per minute (GPM), assuming the well is pumped 24 hours per day seven days per week, or approximately 222 GPM, assuming the well is pumped eight hours per day five days per week. Construction water needs will be limited to soil conditioning and dust suppression. Bottled water will be brought to the Project site for drinking and domestic needs.

The Project is anticipated to be in operation for approximately 30 years, which is the typical lifespan of solar equipment. During operations, solar photovoltaic facilities require minimal water use. The annual water consumption for operations of the facility is expected to be approximately 3.25 AFY, including approximately 1.5 AFY for panel washing, filling the two aboveground water storage tanks to meet fire department requirements, and other maintenance activities, and approximately 1.75 AFY for landscape irrigation. This equates to an amortized pumping rate of approximately 2 GPM, assuming the well is pumped 24 hours per day seven days per week, or approximately 8 GPM, assuming the well is pumped eight hours per day five days per week.

The total Project water use over 20 years is anticipated to be approximately 147 AF and over the life of the Project is approximately 183 AF (Table 4).[1]

Table 4. Project Water Demand

Project Phase	Duration (Years)	Annual Water Demand (AF)	Total Water Demand (AF)
Construction	1	85	85
Operation	30	3.25	97.5
		Total	182.5

Notes: AF = acre-feet.

Pronghorn Solar Plus LLC will perform a water resource investigation to determine the most economically feasible and sustainable method to supply water for both construction and operational use. The water resource investigation will examine local water supply issues, water quality, and production capacity at the proposed Project site. High-quality water will be used for maintenance of the panels to ensure the equipment is not damaged. Potential water sources may include onsite or offsite wells, recycled water, municipal water, or water trucked in from the local municipality.

[1] (1 year x 85 AF) + (19 years x 3.25 AFY) = 146.75 AF; (1 year x 85 AF) + (30 years x 3.25 AFY) = 182.5 AF.

3 Climate

The Project site is characterized by a semi-arid climate with hot, dry summers and cool winters. Average maximum temperatures in the summer are in the mid- to high-90s degrees Fahrenheit, and average minimum temperatures in the winter are in the mid- to low-30s degrees Fahrenheit (WRCC 2024). Average total annual precipitation is approximately 7.4 inches, with most of the precipitation falling in the winter months (WRCC 2024). Precipitation varies significantly from year-to-year, with measured totals ranging from 1.35 inches in 1985 to 18.42 inches in 1941 (WRCC 2024)

Projected future climate conditions in California indicate gradual warming, with a strong increase in extremely hot days relative to historical norms, and greater year-to-year precipitation variability. Warming of approximately 3.6°F to 12.6°F is expected by the end of the century (Pierce et al. 2018). Additionally, there will be fewer wet days, but increased precipitation on the wettest days (i.e., wetter winters and drier spring and autumn), resulting in modest annual precipitation changes but an increase in the frequency of dry years (Pierce et al. 2018).

The influence of climate on water supply availability is considered in Section 6, Water Supply Assessment, when assessing whether the total projected water supplies available during normal, single dry, and multiple dry water years during a 20-year projection will meet the projected water demand of the proposed project, in addition to existing and planned future uses.

4 Water Resources

4.1 Surface Water

The Project site is located in the Antelope-Fremont Valleys watershed (Figure 5). The Antelope-Fremont Valleys watershed (Hydrologic Unit Code 18090206) is a large, closed basin in the western Mojave Desert with no outlet to the ocean. The watershed straddles the Los Angeles–Kern County line and drains a total of 3,387 square miles. Approximately 80 percent of the watershed is characterized by a low to moderate slopes of 0–7 percent. The remaining 20 percent consists of foothills and rugged mountains, some of which reach up to 3,600 feet above mean sea level in elevation. The floor of the Antelope-Fremont Valleys watershed generally lacks defined natural channels outside of the foothills and consequently is subject to unpredictable sheet flow patterns (RWMG 2019).

All water that enters the Antelope-Fremont Valleys watershed either infiltrates into the underlying groundwater basin or flows toward three playa lakes (also known as "dry lakes") located near the center of the watershed—Rogers, Rosamond, and Buckhorn dry lakes. A playa lake is formed when rain fills a playa, or small, round depression in the surface of the ground. Playa lakes are usually endorheic, which means they have no outflow of water. These playa lakes are usually dry, and they only receive water following intense and/or prolonged rainfall. Surface runoff that collects in the dry lakes quickly evaporates from the surface, and only a small quantity of water infiltrates to the groundwater due to the nearly impermeable nature of the playa soils (RWMG 2019).

Natural surface water features in the Project area are ephemeral, meaning that they only convey flows in direct response to precipitation events. Man-made surface water features in the area include the California and Los Angeles aqueducts (Figure 5). The Los Angeles Aqueduct is a water conveyance system built and operated by the Los Angeles Department of Water and Power that delivers water from the Owens River in the eastern Sierra Nevada mountains to Los Angeles. The California Aqueduct is part of the SWP, which is the nation's largest state-built water and power development and conveyance system that includes pumping and power plants, reservoirs, lakes, storage tanks, canals, tunnels and pipelines that capture, store, and convey water to 29 contract water agencies. Imported water supplies are discussed in greater detail in Section 4.3.

As there are no perennial waterways or waterbodies in the Project area, surface water is not a proposed source of Project water supply.

4.2 Groundwater

The Project site overlies the Antelope Valley Groundwater Basin (Figure 3). The Basin is located in the western Mojave Desert and covers approximately 1,580 square miles. Approximately 1,390 square miles, or 90 percent of the Basin is adjudicated, groundwater pumping allocations have been defined, and a watermaster has been appointed to sustainably manage the basin (Figure 3). The adjudicated area is divided into five subareas for management purposes: 1) Central Antelope Valley Subarea, 2) West Antelope Valley Subarea, 3) South East Subarea, 4) Willow Springs Subarea, and 5) Rogers Lake Subarea (AVWM 2023). The Project site is located in the Central Antelope Valley Subarea (Figure 3). Additional information about the adjudication and watermaster is provided in Sections 5.1 and 5.2.

The elevation of the Basin ranges from approximately 2,300 to 3,500 feet above mean sea level. The Basin is bounded on the north by Fremont Valley Groundwater Basin; on the east by ridges, buttes, and low hills forming a drainage divide, and the Harper Valley, Middle Mojave River Valley, and El Mirage Valley groundwater basins; on the southwest by the San Andreas fault zone at the base of the San Gabriel mountains; and on the northwest by the Garlock fault zone at the base of the Tehachapi Mountains (Figures 3 and 6; DWR 2004).

Hydrogeologic Setting

The two primary water-bearing units of the Basin include Holocene and Pleistocene unconsolidated alluvial and lacustrine deposits (Figure 6).[2] These deposits are coarsest at higher elevations and become better sorted and finer grained in the valley bottom. Two primary aquifers (upper and lower) are separated by thick, low permeability clay deposits that can reach as thick as 400 feet. The generally unconfined upper aquifer is the primary source of groundwater for the valley. Specific yields for this aquifer range from 1 to 30 percent, and well production is typically moderate to highly productive, with well yields reported to average just under 300 GPM (DWR 2004). The lower aquifer is generally confined. A small portion of the basin that extends southwest into the San Gabriel mountains is composed of older alluvial and lacustrine deposits, as well as Mesozoic and Precambrian igneous and metamorphic rock complexes (Figure 6).[3]

The Basin primarily receives recharge by perennial runoff from the surrounding mountains. Most recharge occurs at the foot of the higher elevation areas by percolation through the head of alluvial fan systems. The Big Rock and Little Rock creeks, located in the southern part of the Basin, contribute about 80 percent of runoff into the basin (Figure 5). Groundwater flows from the mountains toward the central portion of the Basin (DWR 2004). The total groundwater storage capacity of the Basin is estimated to be around 68 to 70 million AF (DWR 2004).

Groundwater Production

Groundwater extraction was at its highest in the 1950s, but as land use converted from agricultural to urban and with introduction of SWP water in 1972, groundwater pumping decreased until the mid-1980s, when the area started to experience rapid population growth (USGS 2003).

The native safe yield of the Basin is 82,300 AFY (AVWM 2020). Total reported production in 2022 was approximately 67,201 AF, the lowest to date; however, reported production is estimated to be lower than actual production due to missing reporting by some producers in the Basin (AVWM 2023). Nonetheless, current groundwater production has declined since 2016 and appears to be stabilizing close to the native safe yield (ACWM 2023).

Groundwater Quality

Groundwater in the Basin is generally of good quality and meets drinking water standards. The average concentration of total dissolved solids is approximately 350 milligrams per liter (DWR 2004). Arsenic and nitrate have been detected at elevated concentrations that exceed drinking water standards in some areas of the Basin. Elevated nitrate concentrations are typically related to fertilizers, wastewater effluent/septic systems, and animal wastes. Elevated levels of nitrate have been detected in wells located in the vicinity of the Project site (AVWM 2023).

[2] The Holocene epoch began about 11,700 years ago and extends to present and the Pleistocene epoch lasted from about 2.58 million to 11,700 years ago.

[3] The Mesozoic Era lasted from about 252 to 66 million years ago and the Precambrian Era lasted from about 4.6 billion to 541 million years ago.

Arsenic is a naturally occurring constituent commonly detected at elevated concentrations in desert basins in Southern California. Elevated levels of arsenic have been detected in wells located to the northwest of the Project site (ACWM 2023). Groundwater with elevated levels of nitrate and arsenic is either treated at the wellhead or blended with other water prior to human consumption.

Groundwater Levels

From the mid-1970s to late 1990s, groundwater level trends in the Basin ranged from an increase of 84 feet to a decrease of 66 feet (DWR 2004). The largest declines have been observed in the urban areas such as Lancaster, Palmdale, and Edwards Air Force Base. These areas have also experienced subsidence from over-extraction, in some areas as much as 6 feet (DWR 2004; USGS 2003).

Since 2016, hydrographs for wells with a long-term measurement record indicate that groundwater levels have either stabilized or the rates of decline have decreased when compared to the previous two decades. Spring 2023 water level data suggest that groundwater levels in portions of the Basin have begun to recover after a long period of local declines (AVWM 2023).

Groundwater Wells

Based on well completion information made available by DWR, there are three existing groundwater production wells at the Project site (DWR 2024b). According to the well logs, the wells range in depth from 410 to 791 feet below ground surface (bgs) and yield between 2,000 and 2,250 GPM (Appendix A).

Historical groundwater level data are available for three onsite wells (Figures 7 and 8; DWR 2024b). It appears one of the well logs, WCR 19-2716, matches one of the wells with historical groundwater level data, well 07N10W29P001S (Appendix A). The measurement record for well 07N10W29P001S spans from 1981 to 1999, for well 07N10W29B001S from 1950 to 2010 with a large data gap between 1950 and 1981, and for well 07N10W29E001S there is only one measurement in 1950 (Figure 8). The historical groundwater level data for the three wells indicate that groundwater levels have ranged from approximately 200 to 355 feet bgs (Figure 8). Groundwater levels were lowest in the early 1980s. Between the early 1980s and late 1990s, groundwater levels increased by approximately 50 feet, then declined between the late 1990s and late 2000s. The most recent depth to water measurement in well 07N10W29B001S in March 2010 was 337.8 feet bgs (Figure 8).

4.3 Imported Water

Imported water supply in the Project area comes from the SWP, which derives its water from rivers and reservoirs in Northern California and the Sacramento-San Joaquin River Delta and delivers water to 750,000 acres of farmland and 27 million people in Central and Southern California. The Project site has no direct connection to imported water. AVEK delivers SWP water to local retail agencies including District 40 (AVEK 2021a).

The DWR manages and operates the SWP to ensure adequate water supplies are available to meet both human and environmental requirements under various hydrologic conditions. The SWP contractors consist of 29 public entities that have long-term contracts with DWR for all or a portion of their water needs (DWR 2020). There are four different types of SWP deliveries including Table A, Article 21, carryover, and turnback pool water. Table A allocations are based on each contractors' proportion of the SWP's maximum delivery capability of up to 4,172,786 AFY, as established in long-term water supply contracts developed between DWR and the contractors. Article 21

water is SWP water that contractors may receive on a short-term basis in addition to their Table A water and is generally available in wet water years when a surplus is available. Carryover water is unused Table A water that may be stored in the SWP's share of San Luis Reservoir for the contractor to use in the following year. Turnback pool water is Table A water that is sold to another contractor when a contractor determines their Table A allocation exceeds their water needs for the year (DWR 2020).

The reliability of SWP water delivery varies and depends on a number of factors including rainfall, snowpack, reservoir storage, pumping capacity of SWP facilities, and legal/regulatory restrictions. The current 2024 allocation is 40 percent of Table A water (DWR 2024c).

If the Project obtains water supply from AVEK or District 40, all or a portion of the water will be imported SWP water.

4.4 Recycled Water

Recycled water in the Project area is available from two primary sources, the Palmdale Water Reclamation Plant (WRP), located approximately 8 miles southwest of the Project site, and Lancaster WRP, located approximately 13 miles northwest of the Project site (Figure 5). The Los Angeles County Sanitation Districts owns and operates both plants, which collect and treat wastewater from the Cities of Palmdale and Lancaster. Both plants currently provide primary, secondary, and tertiary treatment. The Palmdale WRP has a design capacity of 12 million gallons per day and in 2019 treated 9,021 AF of wastewater for urban and agricultural reuse (AVEK 2021a). The Lancaster WRP has a design capacity of 18 million gallons per day and in 2018 treated 15,052 AF of wastewater for agriculture, irrigation, wildlife habitat, maintenance, recreational impoundments, and urban reuse (AVEK 2021a).

5 Water Management Plans and Programs

5.1 Antelope Valley Judgment and Physical Solution

The Antelope Valley Groundwater Basin was adjudicated in December 2015 with the Superior Court of the State of California's approval of the Judgment and Physical Solution.[4] The Judgment determined the Basin to be in a state of overdraft, established respective water rights among groundwater producers, and ordered a rampdown of production to the native safe yield (AVWM 2023).

As part of the Judgment, the Antelope Valley Watermaster was formed and appointed by the court to implement and enforce the Judgment. The Watermaster board is composed of one representative each from AVEK and District 40, one other public water supplier representative, and two landowner representatives. The Watermaster is charged with administering the adjudicated water rights and managing the groundwater resources within the area of adjudication (AVWM 2023).

The Physical Solution quantified the reduction of groundwater production within the adjudicated area to reach the native safe yield of 82,300 AFY over a seven-year period (2016–2022) to a final production right (AVWM 2020). A production right is the portion of the native safe yield assigned to each party of the Judgment. Production rights under the Judgment include: overlying production rights (58,322 AFY), non-overlying production rights (12,345 AFY), federal reserved water right (7,600 AFY), small pumper class rights (3,806 AFY), and California production right (207 AFY) (AVWM 2020). All parties other than the small pumper class, defined as using less than 3 AFY, are required to install meters on their wells for monitoring production and report production to the Watermaster. Parties that produce groundwater in excess of a production right incur a replacement obligation and are required to pay a replacement water assessment. New production can be approved by the Watermaster if the proposed use is reasonable and would not cause material injury; however, all new production is subject to a replacement obligation (AVWM 2020).

5.2 Antelope Valley Watermaster Annual Report

Under the Judgment, the Watermaster has the responsibility of preparing annual reports. The annual reports provide an update on groundwater conditions in the Basin and Watermaster activities. The latest annual report as of the writing of this WSA is the Antelope Valley Watermaster 2022 Annual Report (AVWM 2023).

According to the 2022 annual report, total production by parties with production rights has declined since the Basin was adjudicated and appears to be stabilizing close to the native safe yield. Groundwater levels across the Basin have either stabilized or the rates of decline have decreased in recent years when compared to the preceding two decades (AVWM 2023).

[4] The Judgment is posted on the Watermaster website at www.avwatermaster.net.

5.3 Antelope Valley Integrated Regional Water Management Plan

The Integrated Regional Water Management Planning Act of 2002 (SB 1672) authorizes a regional water management group to prepare and adopt an integrated regional water management plan that addresses regional scale water supply and related matters. The Project site falls within the Antelope Valley Integrated Regional Water Management Plan area.

The Antelope Valley Regional Water Management Group was created when agencies in the Antelope Valley region recognized the need for regional cooperation and planning (RWMG 2019). Members of the group include AVEK, Antelope Valley State Water Contractors Association, City of Lancaster, City of Palmdale, Littlerock Creek Irrigation District, Los Angeles County Sanitation District Nos. 14 and 20, District 40, Palmdale Water District, Quartz Hill Water District, and Rosamond Community Services District (RWMG 2019). The Antelope Valley Integrated Regional Water Management Plan defines expected demands for water within the entire Antelope Valley region through 2040.

It is anticipated that demand for water will exceed available supplies in future average and dry years by as much as 198,000 AF over four years (RWMG 2019). The region will need to implement conservation, recycled water, stormwater capture, water banking projects, reduce reliance on imported water, and improve infrastructure to meet demand in future years (RWMG 2019).

5.4 Antelope Valley – East Kern Water Agency Urban Water Management Plan

AVEK's 2020 UWMP provides information on AVEK's current and projected water use and supply reliability. The 2020 UWMP was prepared with stakeholder involvement to maximize the region's ability to assess and plan for the region's water future (AVEK 2021a).

AVEK's water supply sources consist of SWP water, non-SWP, and groundwater pumped from the Basin. AVEK currently provides wholesale water to 27 retail water agencies, water companies, and agricultural customers. SWP water is a secondary source for AVEK's customers and is used in lieu of, or in addition to, pumped groundwater (AVEK 2021a).

AVEK receives the majority of its water supplies as imported water from the SWP. AVEK is able to purchase additional SWP supplies from DWR when available and use them to recharge the Basin. AVEK has a contractual Table A amount of 144,844 AFY of SWP and overlying groundwater production right of 3,550 AFY (AVEK 2021a). In addition, in 2017, AVEK acquired rights to 1,700 AFY of non-SWP water through a long-term lease of annual supply originally belonging to the Nickel Family, a farming interest in Kern County. The 1,700 AFY is available for a period of 35 years (with an option to extend), even in dry years (AVEK 2021a). AVEK also receives additional groundwater pumping rights from imported water return flows. Since 2016, AVEK's customers have received roughly 12,000 AFY of return flow rights (AVEK 2021a). In recent years, AVEK has leased a portion of its groundwater productions rights to Los Angeles County Waterworks Districts (LACWD) for the districts' use.

5.5 Antelope Valley – East Kern Water Agency Water Shortage Contingency Plan

As part of the UWMP development process, AVEK prepared a water shortage contingency plan (WSCP) and included it as an appendix to the 2020 UWMP. The WSCP was developed to respond to foreseeable and unforeseeable water shortages (AVEK 2021b). Six standard water shortage levels were defined as part of the plan with associated shortage response actions and communication protocols. In the event of a water supply shortage, AVEK will make water delivery reductions and encourage retail water suppliers to reduce water usage (AVEK 2021b).

5.6 Los Angeles County Waterworks District No. 40 Urban Water Management Plan

District 40's 2020 UWMP provides information on District 40's water supply sources and projected water use, water conservation program, and a comparison of water supply and water demands. District 40 encompasses eight regions: Cities of Lancaster and Palmdale, and unincorporated communities of Pearblossom, Littlerock, Sun Village, Rock Creek, Northeast Los Angeles County, and Lake Los Angeles (LACWD 2021).

District 40's water supply sources consist of water purchased from AVEK and groundwater pumped from the Basin. District 40 is AVEK's largest municipal customer. In 2020, District 40 purchased 31,552 AF of water from AVEK and pumped 14,266 AF of groundwater from the Basin (LACWD 2021). District 40 has access to approximately 23,289 AFY of groundwater including a non-overlying production right of 6,789 AFY, 3,500 AFY of unused federal reserve rights, 2,600 AFY of groundwater rights leased from AVEK, and access to return flows equivalent to 39 percent of District 40's 5-year average of purchased SWP water supply (equating to 10,400 AFY) (LACWD 2021).

5.7 Los Angeles County Waterworks District No. 40 Water Shortage Contingency Plan

As part of the UWMP development process, LACWD prepared a WSCP to respond to a declared water emergency or water shortage conditions (LACWD 2022). The intent of the WSCP is to provide guidance for managing water supplies, mitigating shortages, preparing for droughts, and managing future responses due to water shortages (LACWD 2022). The plan applies to all customers and property utilizing water provided by multiple LACWDs, including District 40. The WSCP was included as an appendix to District 40's 2020 UWMP. Six standard water shortage levels were defined as part of the plan with associated shortage response actions and communication protocols. Each district is responsible for conducting annual water supply and demand assessments as part of the plan. According to the findings of the assessment, District 40's projected water supply from AVEK and District 40's wells matches the expected demand (LACWD 2022).

6 Sufficiency of Water Supply

It is anticipated the Project will require a maximum of 85 AF of water for construction over a 12-month period and approximately 3.25 AFY of water for operation over the 30-year life of the Project. Accordingly, over 20 years the Project is expected to require approximately 147 AF, and over the life of the Project is expected to require 183 AF. The Project water demand will be satisfied by municipal water purchased from a local water purveyor, groundwater from onsite or offsite wells, or recycled water purchased from District 40 or directly from one of the WRPs. The following provides an assessment of the availability and sufficiency of these potential sources of Project water supply.

6.1 Municipal Water Supply

Local water purveyors that could potentially serve the Project include AVEK, District 40, Aqua J. Mutual Water Company, Colorado Mutual Water Company, and Reesedale Mutual Water Company. As District 40's service area is located immediately adjacent to the Project site and District 40 is the only retail public water system nearby the Project site, District 40 is the most likely source of municipal water supply for the Project. The Project could obtain water from District 40 by trucking water to the Project site or by being annexed into District 40's service area. The Project could potentially obtain water supply from AVEK or one of the several small community water systems; however, AVEK is generally a wholesale water purveyor and does not provide service to individual customers, and the small community water systems have limited water supply. Aqua-J Mutual Water Company has an overlying production right of 44.35 AFY, Colorado Mutual Water Co. has an overlying production right of 25.54 AFY, and Reesdale Mutual Water Company's overlying production right is not known (AVWM 2023). Therefore, the following provides a summary of District 40's ability to serve the Project.

District 40's projected water supply and demand totals for normal, single dry, and multiple dry years in five-year increments over the next 25 years are provided in Tables 5 through 7. In dry years where AVEK's Table A allocation is less than average (58 percent), AVEK will provide District 40 with groundwater from its banked supplies (LACWD 2021).

Table 5. Projected Water Supply and Demand Comparison for Normal Year

Supply/Demand	2025	2030	2035	2040	2045
Supply Totals	*83,086*	*81,724*	*80,324*	*79,024*	*79,024*
AVEK SWP	57,300	55,800	54,200	52,700	52,700
District 40's Groundwater Production Rights	6,789	6,789	6,789	6,789	6,789
District 40's Unused Federal Reserve Right	3,500	3,500	3,500	3,500	3,500
District 40's Imported Water Return Flows	10,400	10,400	10,400	10,400	10,400
District 40/AVEK Lease	2,600	2,600	2,600	2,600	2,600
New Supply from AVEK	1,733	1,733	1,733	1,733	1,733
Recycled Water	764	902	1,102	1,302	1,302
Demand Totals	*55,164*	*58,002*	*61,102*	*64,402*	*67,602*

Difference	**27,922**	**23,722**	**19,222**	**14,622**	**11,422**

Source: LACWD 2021.
Notes: All values in acre-feet; AVEK = Antelope Valley-East Kern Water Agency; SWP = State Water Project; District 40 = Los Angeles County Waterworks District No. 40.

Table 6. Projected Water Supply and Demand Comparison for Single Dry Year

Supply/Demand	2025	2030	2035	2040	2045
Supply Totals	*55,164*	*58,002*	*61,102*	*64,402*	*67,602*
AVEK SWP	5,000	5,000	5,000	5,000	5,000
AVEK Groundwater from Banked Supplies	24,378	27,078	29,978	33,078	36,278
District 40's Groundwater Production Rights	6,789	6,789	6,789	6,789	6,789
District 40's Unused Federal Reserve Right	3,500	3,500	3,500	3,500	3,500
District 40's Imported Water Return Flows	10,400	10,400	10,400	10,400	10,400
District 40/AVEK Lease	2,600	2,600	2,600	2,600	2,600
New Supply from AVEK	1,733	1,733	1,733	1,733	1,733
Recycled Water	764	902	1,102	1,302	1,302
Demand Totals	*55,164*	*58,002*	*61,102*	*64,402*	*67,602*
Difference	**0**	**0**	**0**	**0**	**0**

Source: LACWD 2021.
Notes: All values in acre-feet; AVEK = Antelope Valley-East Kern Water Agency; SWP = State Water Project; District 40 = Los Angeles County Waterworks District No. 40.

Table 7. Projected Water Supply and Demand Comparison for Multiple Dry Years

Year	Supply/Demand	2025	2030	2035	2040	2045
First Year	*Supply Totals*	*55,164*	*58,002*	*61,102*	*64,402*	*67,602*
	AVEK SWP	12,500	12,500	12,500	12,500	12,500
	AVEK Groundwater from Banked Supplies	16,878	19,578	22,487	25,578	28,778
	District 40's Groundwater Production Rights	6,789	6,789	6,789	6,789	6,789
	District 40's Unused Federal Reserve Right	3,500	3,500	3,500	3,500	3,500
	District 40's Imported Water Return Flows	10,400	10,400	10,400	10,400	10,400
	District 40/AVEK Lease	2,600	2,600	2,600	2,600	2,600
	New Supply from AVEK	1,733	1,733	1,733	1,733	1,733
	Recycled Water	764	902	1,102	1,302	1,302
	Demand Totals	*55,164*	*58,002*	*61,102*	*64,402*	*67,602*
	Difference	**0**	**0**	**0**	**0**	**0**
Second Year	*Supply Totals*	*59,776*	*59,914*	*61,102*	*64,402*	*67,602*
	AVEK SWP	32,700	32,700	32,700	32,700	32,700

Table 7. Projected Water Supply and Demand Comparison for Multiple Dry Years

Year	Supply/Demand	2025	2030	2035	2040	2045
	AVEK Groundwater from Banked Supplies	0	0	2,278	5,378	8,578
	District 40's Groundwater Production Rights	6,789	6,789	6,789	6,789	6,789
	District 40's Unused Federal Reserve Right	3,500	3,500	3,500	3,500	3,500
	District 40's Imported Water Return Flows	10,400	10,400	10,400	10,400	10,400
	District 40/AVEK Lease	2,600	2,600	2,600	2,600	2,600
	New Supply from AVEK	1,733	1,733	1,733	1,733	1,733
	Recycled Water	764	902	1,102	1,302	1,302
	Demand Totals	*55,164*	*58,002*	*61,102*	*64,402*	*67,602*
	Difference	**4,612**	**1,912**	**0**	**0**	**0**
Third Year	*Supply Totals*	*55,164*	*58,002*	*61,102*	*64,402*	*67,602*
	AVEK SWP	13,500	13,500	13,500	13,500	13,500
	AVEK Groundwater from Banked Supplies	15,878	18,578	21,478	24,578	27,778
	District 40's Groundwater Production Rights	6,789	6,789	6,789	6,789	6,789
	District 40's Unused Federal Reserve Right	3,500	3,500	3,500	3,500	3,500
	District 40's Imported Water Return Flows	10,400	10,400	10,400	10,400	10,400
	District 40/AVEK Lease	2,600	2,600	2,600	2,600	2,600
	New Supply from AVEK	1,733	1,733	1,733	1,733	1,733
	Recycled Water	764	902	1,102	1,302	1,302
	Demand Totals	*55,164*	*58,002*	*61,102*	*64,402*	*67,602*
	Difference	**0**	**0**	**0**	**0**	**0**
Fourth Year	*Supply Totals*	*55,164*	*58,002*	*61,102*	*64,402*	*67,602*
	AVEK SWP	25,900	25,900	25,900	25,900	25,900
	AVEK Groundwater from Banked Supplies	3,478	6,178	9,078	12,178	15,378
	District 40's Groundwater Production Rights	6,789	6,789	6,789	6,789	6,789
	District 40's Unused Federal Reserve Right	3,500	3,500	3,500	3,500	3,500
	District 40's Imported Water Return Flows	10,400	10,400	10,400	10,400	10,400
	District 40/AVEK Lease	2,600	2,600	2,600	2,600	2,600
	New Supply from AVEK	1,733	1,733	1,733	1,733	1,733
	Recycled Water	764	902	1,102	1,302	1,302
	Demand Totals	*55,164*	*58,002*	*61,102*	*64,402*	*67,602*

Table 7. Projected Water Supply and Demand Comparison for Multiple Dry Years

Year	Supply/Demand	2025	2030	2035	2040	2045
	Difference	**0**	**0**	**0**	**0**	**0**
Fifth Year	*Supply Totals*	*55,164*	*58,002*	*61,102*	*64,402*	*67,602*
	AVEK SWP	18,200	18,200	18,200	18,200	18,200
	AVEK Groundwater from Banked Supplies	11,178	13,878	16,778	19,878	23,078
	District 40's Groundwater Production Rights	6,789	6,789	6,789	6,789	6,789
	District 40's Unused Federal Reserve Right	3,500	3,500	3,500	3,500	3,500
	District 40's Imported Water Return Flows	10,400	10,400	10,400	10,400	10,400
	District 40/AVEK Lease	2,600	2,600	2,600	2,600	2,600
	New Supply from AVEK	1,733	1,733	1,733	1,733	1,733
	Recycled Water	764	902	1,102	1,302	1,302
	Demand Totals	*55,164*	*58,002*	*61,102*	*64,402*	*67,602*
	Difference	**0**	**0**	**0**	**0**	**0**

Source: LACWD 2021.
Notes: All values in acre-feet; AVEK = Antelope Valley-East Kern Water Agency; SWP = State Water Project; District 40 = Los Angeles County Waterworks District No. 40.

Based on District 40's projected water supplies and demands, District 40 will have sufficient supplies to meet demands in normal year, single dry, and multiple dry years through 2045. No supply shortage is anticipated in dry years because AVEK can meet District 40's demands by pumping groundwater from its banked supplies (LACWD 2021). Additionally, District 40 has executed a memorandum of understanding with AVEK to implement a new water supply entitlement acquisition program for new developments that allows District 40 to acquire additional imported water supplies to meet the demands associated with the level of growth projected for District 40's service area (LACWD 2021). Therefore, District 40 has sufficient supplies to satisfy the Project's one-time construction water demand of up to 85 AF and operational demand of approximately 3.25 AFY. Although the water demand of the Project is not accounted for in District 40's UWMP, District 40 has surplus supplies in normal years and in dry years has the ability to obtain additional banked groundwater supplies.

6.2 Groundwater Supply

The Project site consists of two parcels owned by Bolthouse Land Company LLC, a subsidiary of Bolthouse Properties LLC. Bolthouse Properties LLC has an overlying production right of 9,945 AFY (AVWM 2023). The Project's construction water demand of up to 85 AF is approximately one percent of Bolthouse Properties LLC overlying production right and approximately one-sixth (18%) of the estimated historical water use at the Project site (see Section 2.1). Based on well completion information made available by DWR, there are three existing onsite groundwater production wells with reported yields of 2,000 GPM or more (DWR 2024b). The Project is anticipated to require a well that provides up to 222 GPM for construction and 8 GPM for operation. One of the existing onsite production wells or a new well would be capable of satisfying the Project water demand. According to the most recent annual report for the Basin, groundwater production has stabilized close to the native safe yield and

groundwater levels have either stabilized or the rates of decline have decreased in recent years (AVWM 2023). Based on this information, there is sufficient groundwater to satisfy the Project water demand.

6.3 Recycled Water Supply

Recycled water in the Project area is available from Palmdale WRP and Lancaster WRP. The Project could obtain recycled water supply either through District 40 or directly from one of the WRPs. Currently, there is a greater volume of recycled water available in the Antelope Valley than there are uses for it (LACWD 2021). Recycled water is a reliable water source even during dry years and could be a sustainable source of Project water supply.

7 Conclusion

A WSA is required to identify and describe the water supply source(s) that will serve a proposed project. CWC Section 10910(d) requires a WSA to include an identification of any existing water supply entitlements, water rights, and water service contracts relevant to the identified water supply for a proposed project, and a description of the quantities of water received in prior years if the source is a public water supplier.

The Project will require a maximum of 85 AF of water for construction over a 12-month period, or approximately one-sixth (18%) of the estimated historical water use at the Project site. After construction is complete, the Project will require approximately 3.25 AFY for operation over the 30-year life of the Project (total of 183 AF for the Project life). Water from a local water purveyor, groundwater from onsite or offsite wells, or recycled water from a nearby WRP are all sufficient and reliable potential sources of Project water supply.

Based on the information, analysis, and findings documented in this WSA, municipal water, groundwater, and/or recycled water supplies are available during normal, single dry, and multiple dry years during a 20-year projection and will be sufficient to satisfy the projected water demand associated with the proposed Project, in addition to existing and planned future uses of the water supplies.

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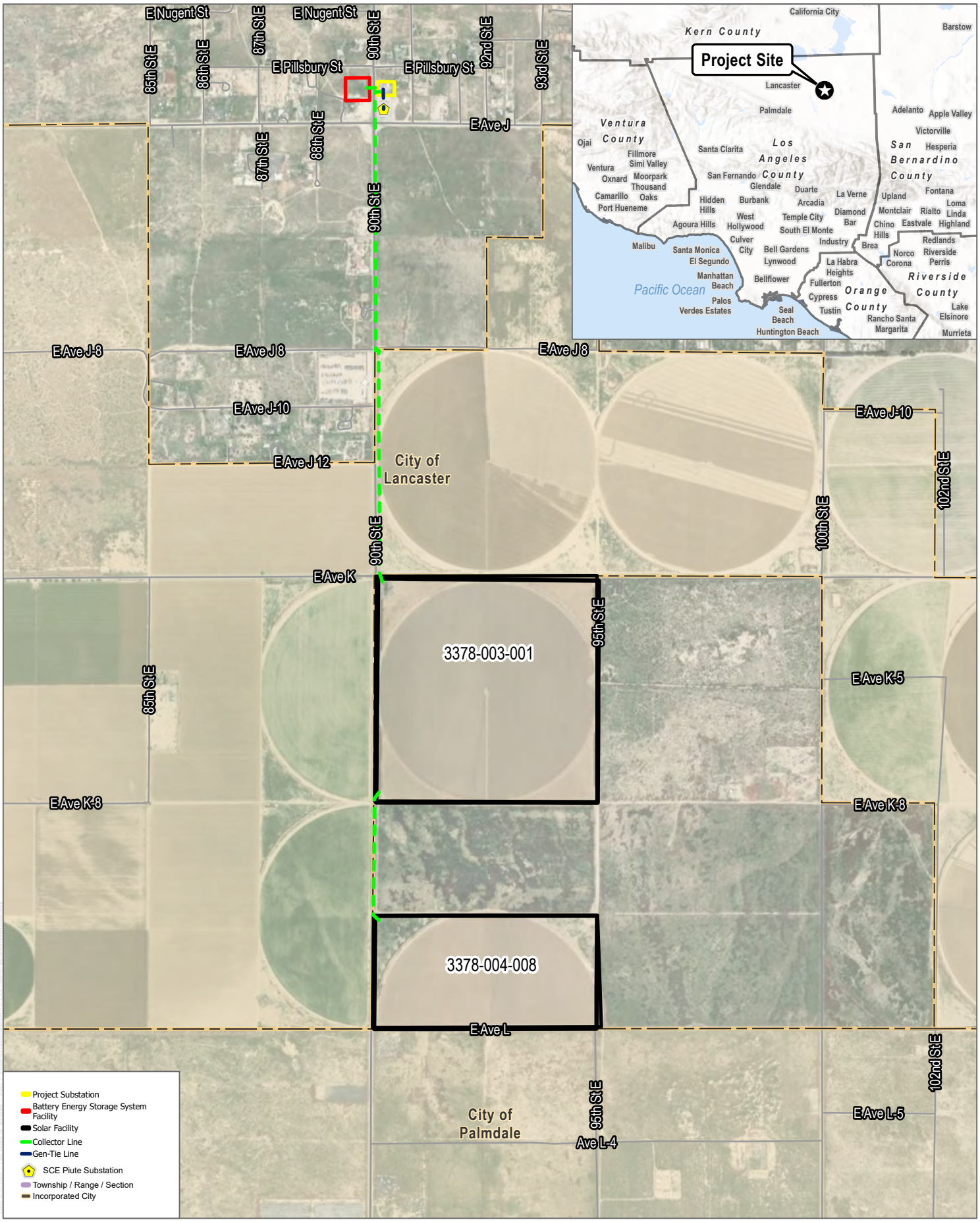
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SOURCE: ESRI; USGS; Los Angeles County

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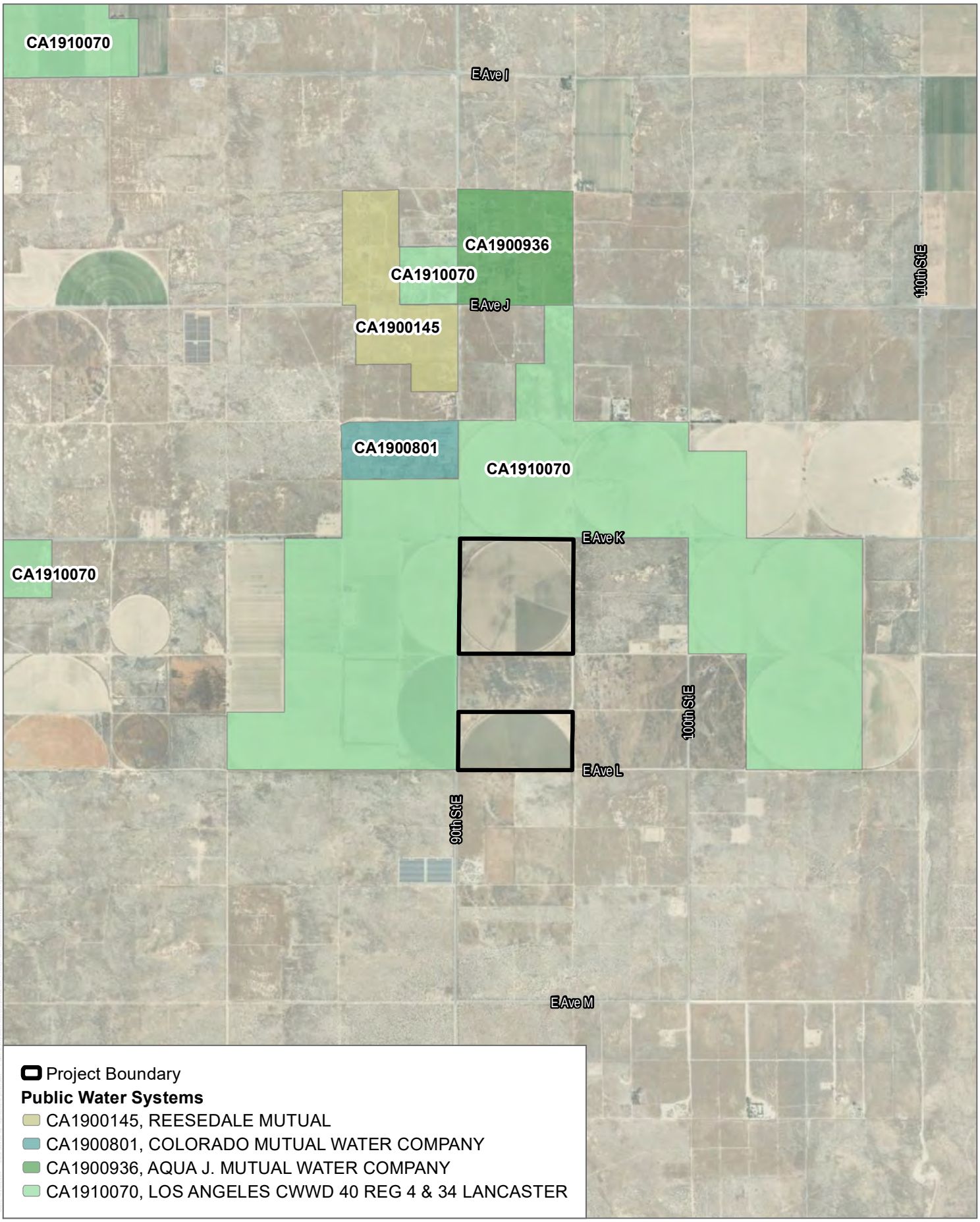
0 500 1,000 Feet

FIGURE 1

Project Location

Pronghorn Solar and Storage Project

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SOURCE: ESRI; Los Angeles County; SWRCB

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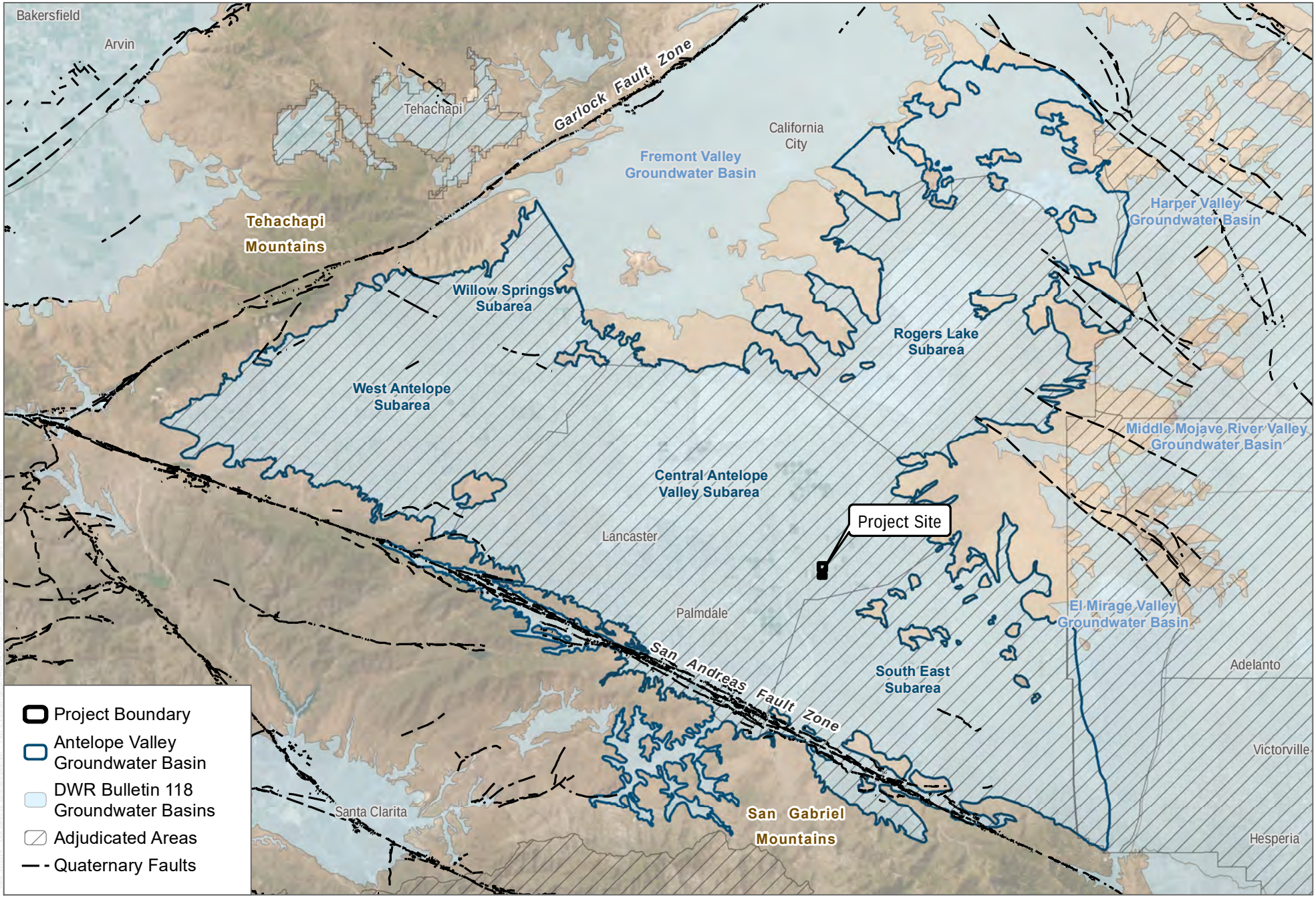
0 0.25 0.5 Miles

FIGURE 2

Public Water Systems

Pronghorn Solar and Storage Project

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SOURCE: ESRI; USGS; DWR; Los Angeles County

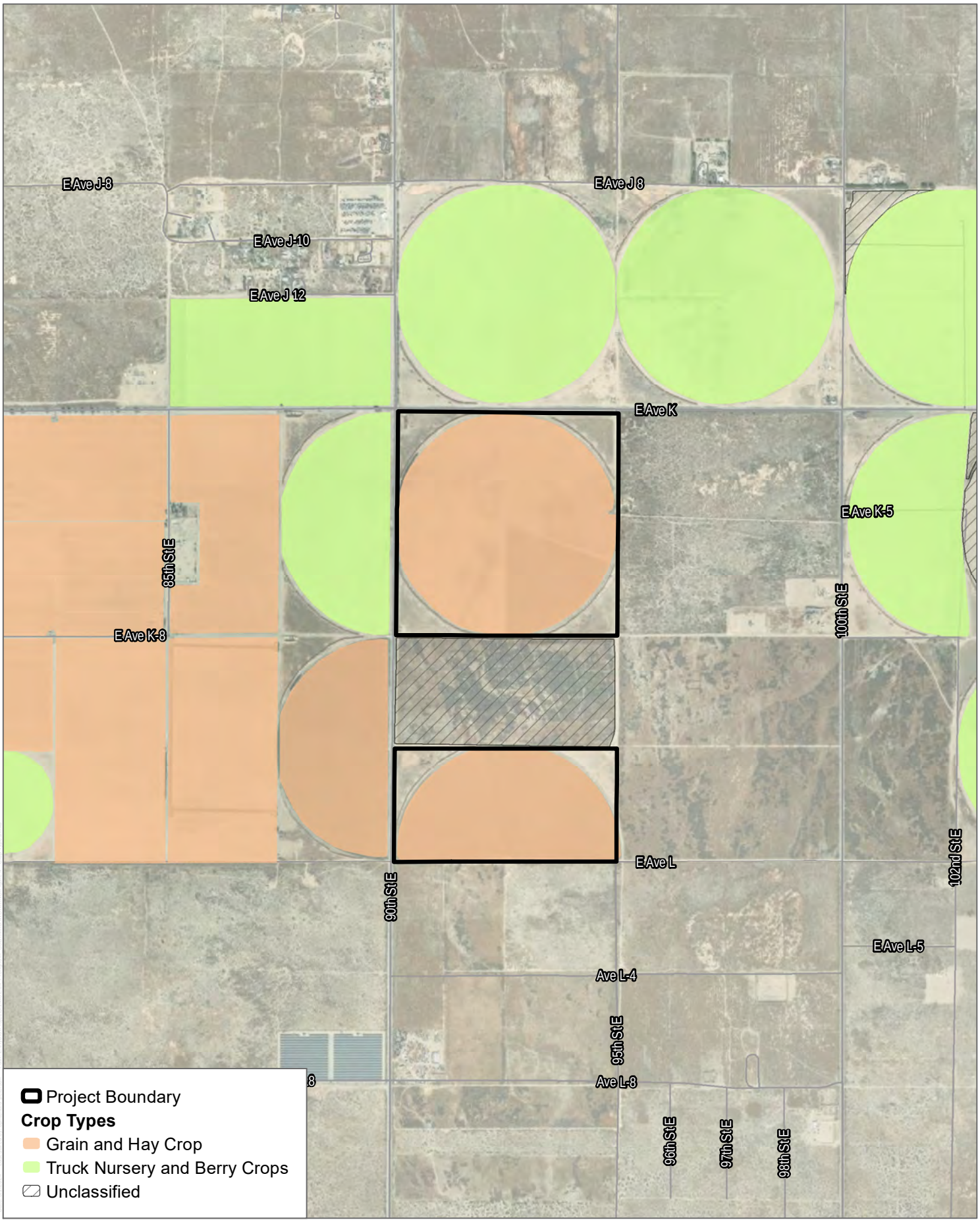
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FIGURE 3

Groundwater Basins

Pronghorn Solar and Storage Project

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SOURCE: ESRI; Los Angeles County; DWR

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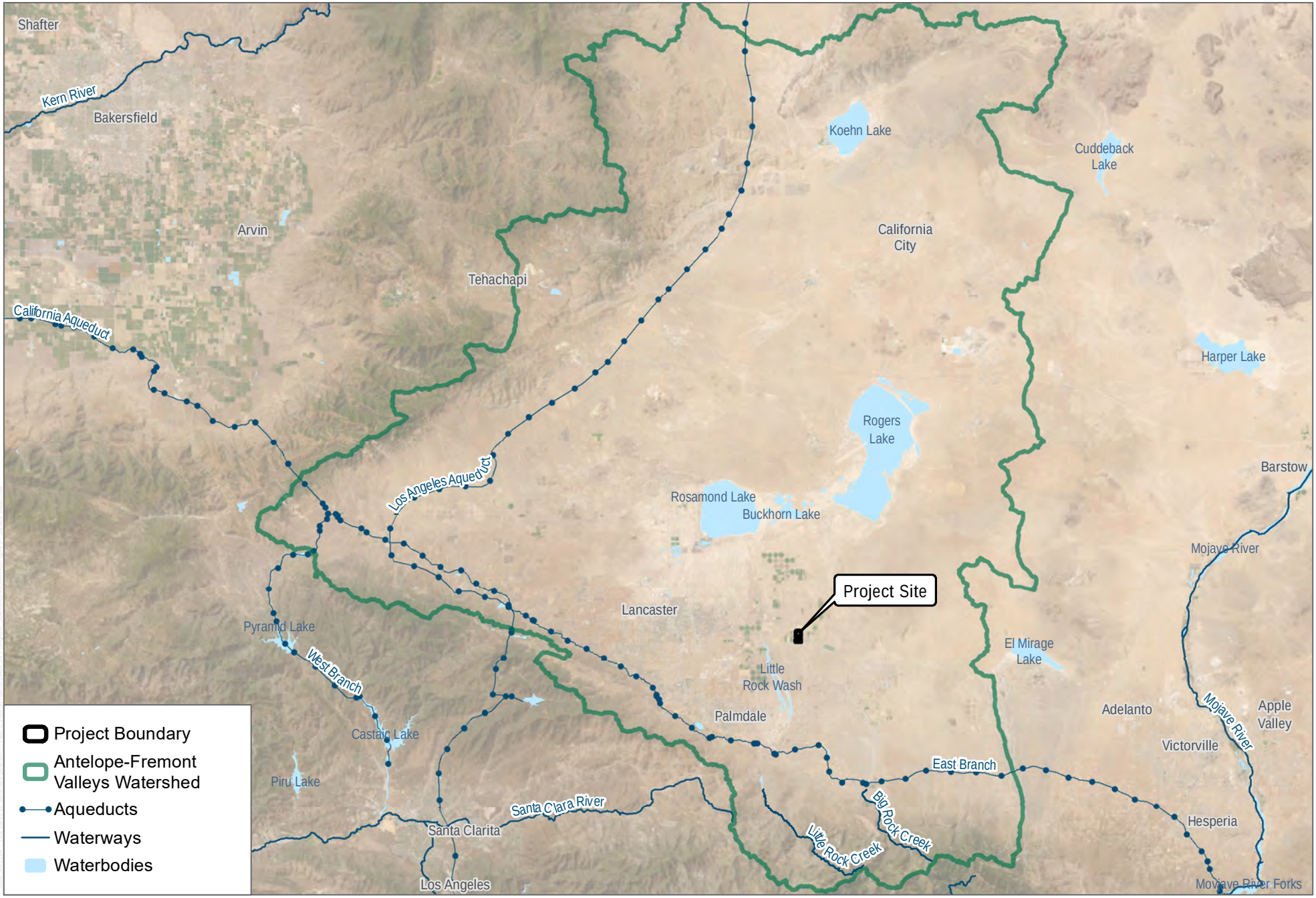
0 750 1,500 Feet

FIGURE 4

Crop Types

Pronghorn Solar and Storage Project

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SOURCE: ESRI; DWR; USGS; Los Angeles County

DUDEK

FIGURE 5

Watersheds and Surface Water Features

Pronghorn Solar and Storage Project

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Project Boundary

Antelope Valley Groundwater Basin

Structural Features

Contacts and Faults

Geologic Units

Qs - Extensive marine and nonmarine sand deposits

Q - Alluvium, lake, playa, and terrace deposits

Qoa - Older alluvium, lake, playa, and terrace deposits

QPc - Pleistocene and/or Pliocene sandstone, shale, and gravels deposits

Tc - Undivided Tertiary nonmarine sandstone, shale, conglomerate, breccia, and ancient lake deposits

P - Pliocene marine sandstone, siltstone, shale, and conglomerate

M - Miocene marine sandstone, shale, siltstone, conglomerate, and breccia

Mc - Miocene nonmarine sandstone, shale, conglomerate, and fanglomerate

O - Oligocene marine sandstone, shale, and conglomerate

Oc - Oligocene nonmarine sandstone, shale, and conglomerate

E - Eocene marine shale, sandstone, conglomerate, and minor limestone

Ep - Paleocene marine sandstone, shale, and conglomerate

Tv - Tertiary volcanic flow rocks

Tvp - Tertiary pyroclastic and volcanic mudflow deposits

Ti - Tertiary intrusive rocks; mostly shallow (hypabyssal) plugs and dikes

sch - Schists of various types; mostly Paleozoic or Mesozoic age; some Precambrian

ls - Limestone, dolomite, and marble whose age is uncertain but probably Paleozoic or Mesozoic

gr-m - Mesozoic to Precambrian granitic and metamorphic rocks; mostly gneiss and other metamorphic rocks injected by granitic rocks

mv - Undivided pre-Cenozoic metavolcanic rocks. Includes latite, dacite, tuff, and greenstone; commonly schistose

grMz - Mesozoic granite, quartz monzonite, granodiorite, and quartz diorite

gb - Gabbro and dark dioritic rocks; chiefly Mesozoic

Pz - Undivided Paleozoic metasedimentary rocks

m - Undivided pre-Cenozoic metasedimentary and metavolcanic rocks of great variety

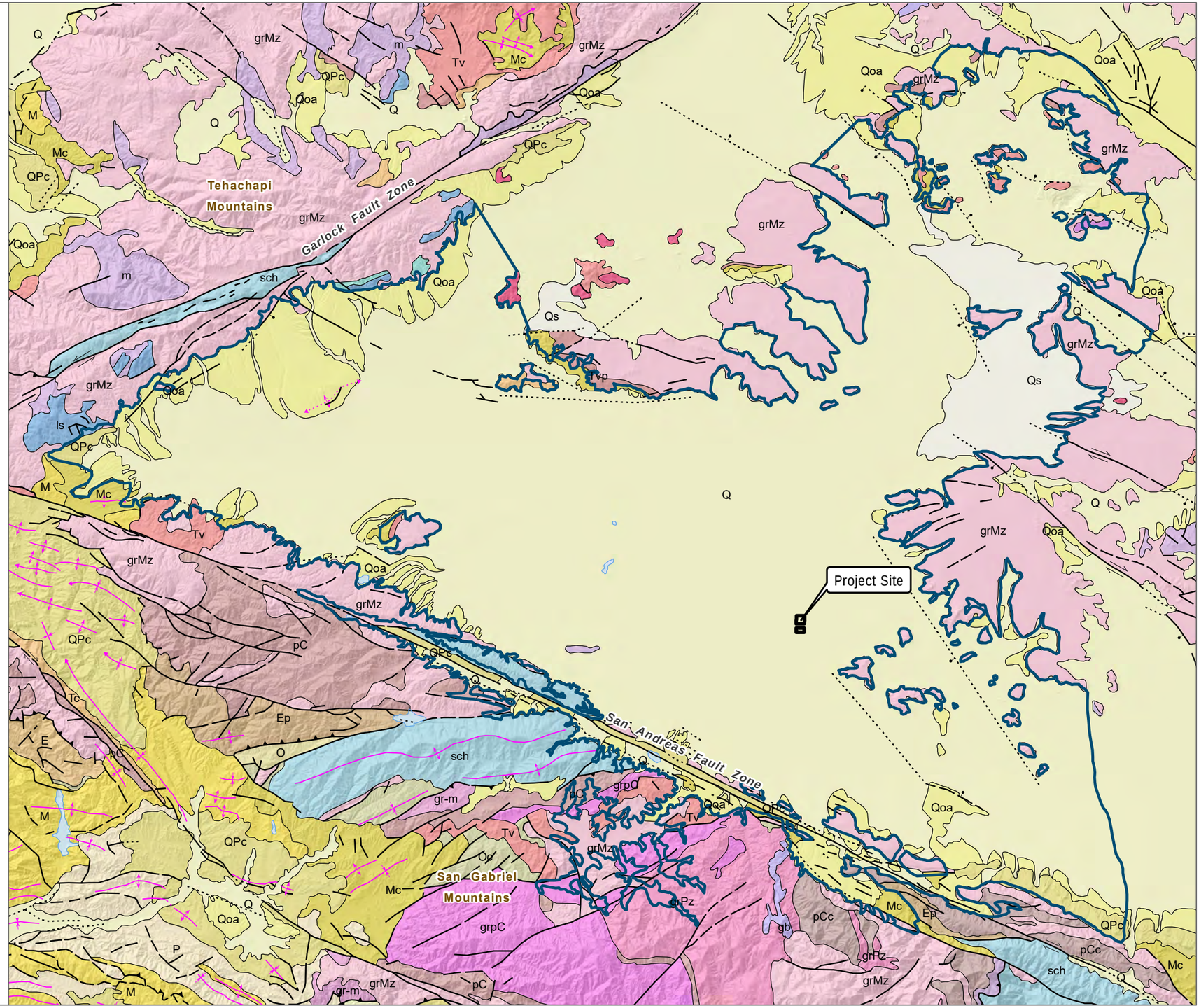
grPz - Paleozoic and Permo-Triassic granitic rocks in the San Gabriel and Klamath Mountains

pC - Conglomerate, shale, sandstone, limestone, dolomite, marble, gneiss, hornfels, and quartzite

pCc - Complex of Precambrian igneous and metamorphic rocks

grpC - Precambrian granite, syenite, anorthosite, and gabbroic rocks

Water



SOURCE: DOC; DWR

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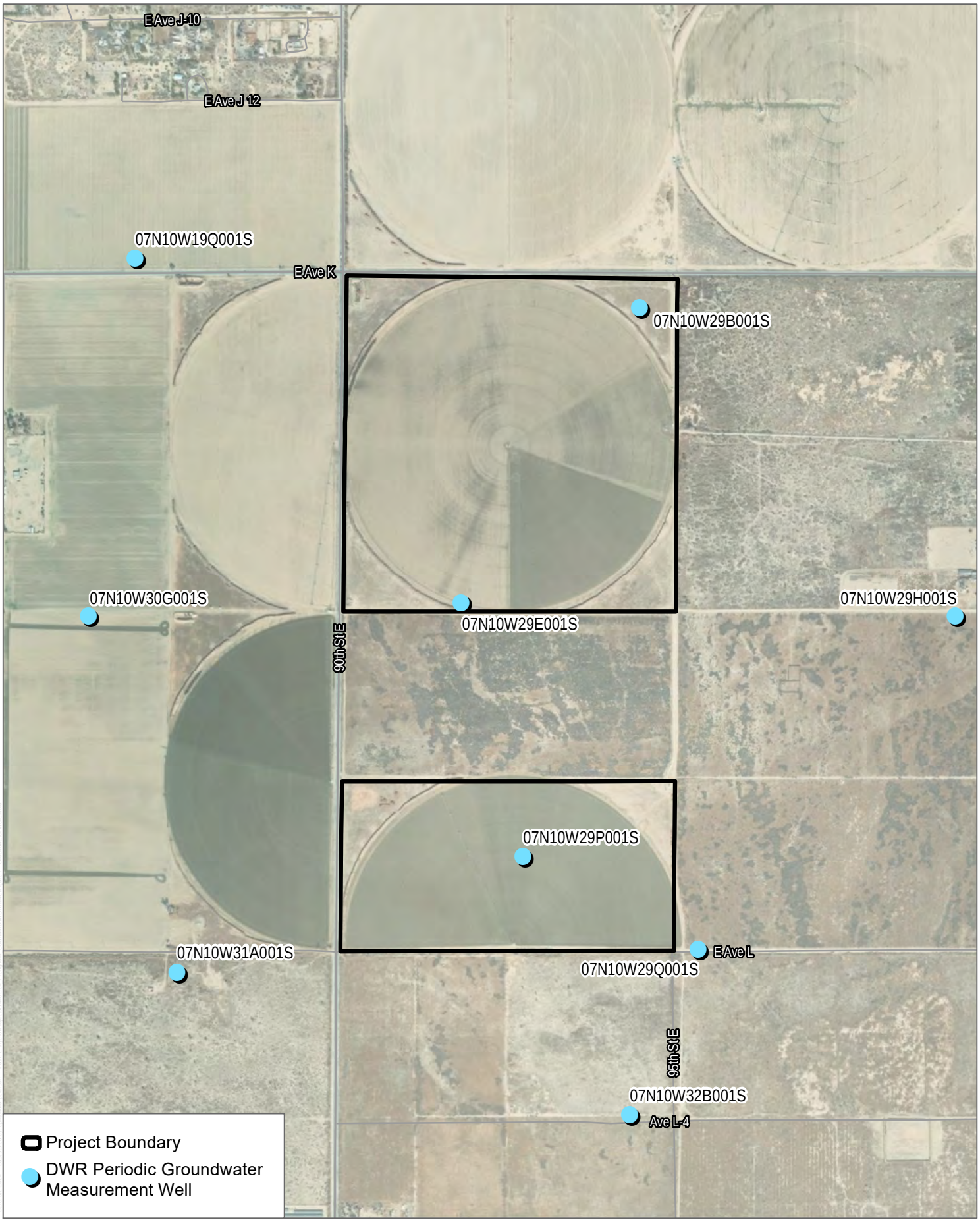
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FIGURE 6

Geologic Setting

Pronghorn Solar and Storage Project

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SOURCE: ESRI; Los Angeles County; DWR

DUDEK

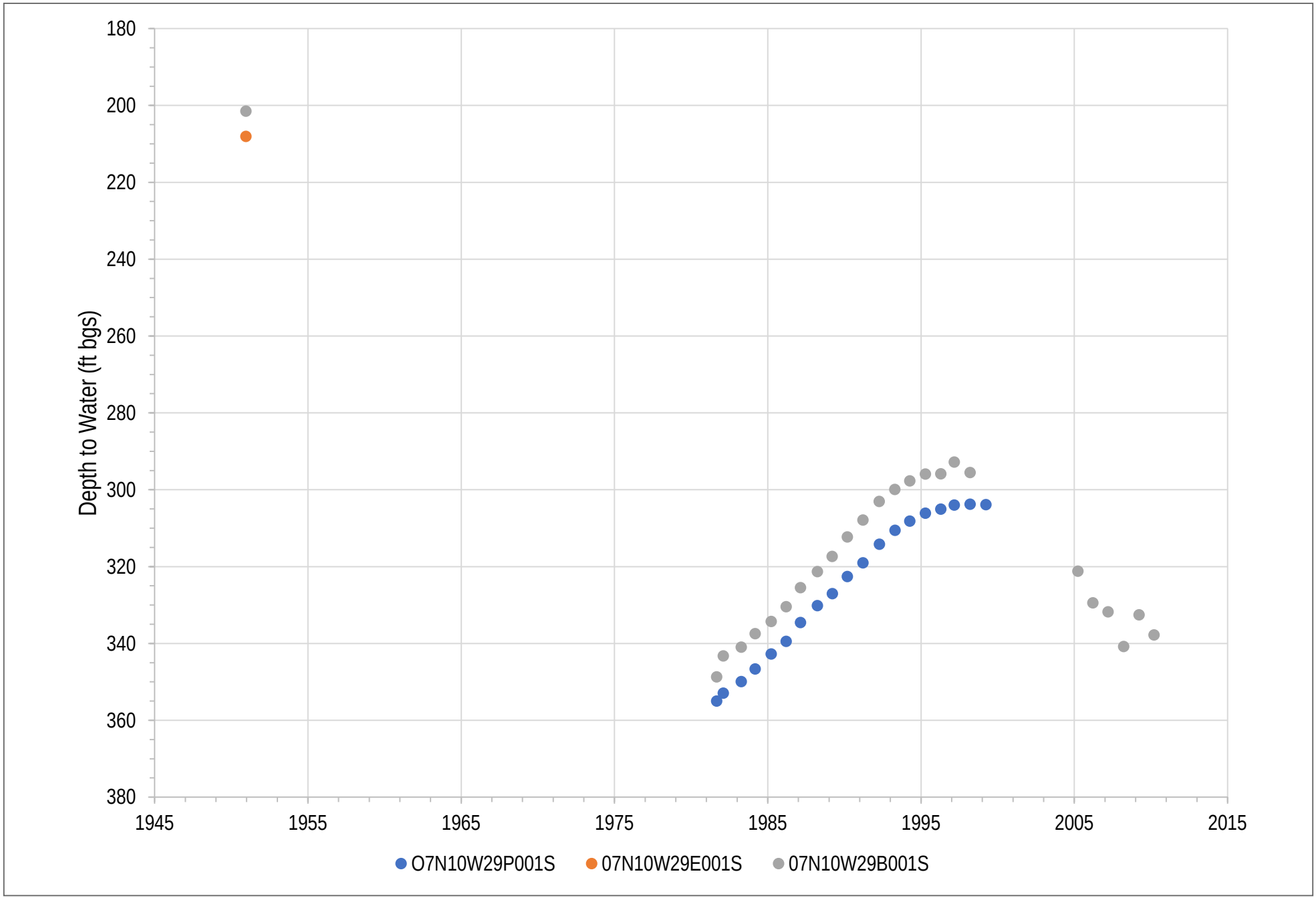
0 500 1,000 Feet

FIGURE 7

Groundwater Wells

Pronghorn Solar and Storage Project

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SOURCE: DWR

FIGURE 8

Groundwater Levels

Pronghorn Solar and Storage Project

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Appendix A
Well Logs

FORM 115
INVESTIGATION

07N 10W 29P

SHEET 1

DIVISION OF WATER RESOURCES
DEPARTMENT OF PUBLIC WORKS
STATE OF CALIFORNIA

NUMBER 7N 10W 29A P

WELL LOG

~~LOCAL DESIGNATION~~ #10133
WCR 19-2716

LOCATION 950' N. of Ave. L, 1750' E. of 90th St. E.

S.E. 1/4, S.W. 1/4, Sec. 29, T. 7 N., R. 10W.

OWNER [redacted]

DATE COMPLETED Sept. 5-17, 1946

DIAMETER OF CASING Solid 16" I.D. = 0 - 200'
Perf. 16" I.D. = 200' - 408 = 208'

DRILLED BY R. & C. Drilling Co.

SOURCE OF INFORMATION C. R. Clyde

INSPECTED WHILE DRILLING SEE FILE NO.

SURFACE ELEVATION 2503 U.S.G.S. Topo.

SKETCH

Rotary method
24" hole = 0' - 408'
Gravel packed, 43 ± tons of #3 gravel

MICROFILMED

DEPTH	ELEVATION OF BOTTOM OF STRATUM	MATERIAL	THICKNESS FEET	% VOIDS	ABSOLUTE VOIDS FEET	TOTAL VOIDS FEET
0-25		Sand & clay				
-55		Coarse gravel				
-76		Loose sand				
-100		Sand & boulders				
-112		Coarse sand				
-115		Rocks				
-140		Sand & clay				
-200		Hard packed sand				
-273		Sand & clay				
-341		Sand & gravel				
-358		Sandy clay				
-384		Sand & gravel				
-409		Coarse gravel				
-410		Sandy clay				

FOR FIELD COPIES USE ALTERNATE LINES

LOG OBTAINED BY DATE 2-27-47

97588 9-32 15M CALIFORNIA STATE PRINTING OFFICE

Reyp

ORIGINAL
File with DWR

Get new number

Page 1 of 1

STATE OF CALIFORNIA
WELL COMPLETION REPORT
Refer to Instruction Pamphlet

No. e000296

DWR USE ONLY — DO NOT FILL IN
STATE WELL NO./STATION NO.
LATITUDE LONGITUDE
APN/TRS/OTHER

Owner's Well No. _____
Date Work Began 01/10/01, Ended 02/19/01
Local Permit Agency Los Angeles County
Permit No. _____ Permit Date _____

GEOLOGIC LOG

ORIENTATION (✓) X VERTICAL ___ HORIZONTAL ___ ANGLE ___ (SPECIFY)
DRILLING METHOD _____ FLUID _____

DEPTH FROM SURFACE Ft. to Ft.	DESCRIPTION *Describe material, grain size, color, etc.*
0 20	Fine to coarse sand
20 30	Fine to coarse sand/gravel
30 50	Fine to coarse sand/silt lenses
50 70	Coarse sand & gravel/silt lenses
70 80	Silt
80 110	Fine to coarse sand
110 140	Fine to coarse sand/silt lenses
140 190	Med. to coarse sand/silt lenses
190 280	Med. to coarse sand
280 360	Fine to coarse sand
360 380	Fine to Coarse sand/Brn. clay
380 556	Fine to med. sand
556 610	Fine to coarse sand/Brn. clay
610 640	Fine sand/cemented clay
640 680	Fine to med. sand/clay lenses
680 705	Gray clay/cemented/fine to med. sand
705 735	Fine to med. sand/ gray clay lenses
735 760	Med. to coarse sand/ clay lense/ hard
760 783	Deconposed Granite
782 791	Granite

TOTAL DEPTH OF BORING 786 (Feet)
TOTAL DEPTH OF COMPLETED WELL 765 (Feet)

WELL OWNER

WELL LOCATION

Address 80ft W. of 95th E. & 1060ft S Of K.
City Lancaster, CA
County Los Angeles
APN Book ___ Page ___ Parcel ___
Township 7N Range 10W Section 29
Latitude ___ DEG. ___ MIN. ___ SEC. NORTH
Longitude ___ DEG. ___ MIN. ___ SEC. WEST

LOCATION SKETCH

NORTH
WEST SEE ATTACHED EAST
SOUTH

Illustrate or Describe Distance of Well from Roads, Buildings, Fences, Rivers, etc. and attach a map. Use additional paper if necessary. PLEASE BE ACCURATE & COMPLETE.

ACTIVITY (✓)

XX NEW WELL
MODIFICATION/REPAIR
___ Deepen
___ Other (Specify)
___ DESTROY *(Describe Procedures and Materials Under "GEOLOGIC LOG")*

PLANNED USES (✓)

WATER SUPPLY
X Domestic ___ Public
X Irrigation ___ Industrial
MONITORING ___
TEST WELL ___
CATHODIC PROTECTION ___
HEAT EXCHANGE ___
DIRECT PUSH ___
INJECTION ___
VAPOR EXTRACTION ___
SPARGING ___
REMEDIATION ___
OTHER (SPECIFY) ___

WATER LEVEL & YIELD OF COMPLETED WELL

DEPTH TO FIRST WATER 291 (Ft.) BELOW SURFACE
DEPTH OF STATIC WATER LEVEL 291 (Ft.) & DATE MEASURED 2/19/01
ESTIMATED YIELD * 2000 (GPM) & TEST TYPE Pump
TEST LENGTH 8 (Hrs.) TOTAL DRAWDOWN 56 (Ft.)
** May not be representative of a well's long-term yield.* PL 347'

CASING (S)

DEPTH FROM SURFACE Ft. to Ft.	BORE-HOLE DIA. (Inches)	TYPE (✓) BLANK	SCREEN	CON-DUCTOR	FILL PIPE	MATERIAL / GRADE	INTERNAL DIAMETER (Inches)	GAUGE OR WALL THICKNESS	SLOT SIZE IF ANY (Inches)
0 360	26	X				A53B	15.31	2 .312	
360 400	26		X			A53B	15.31	2 .312	.080
400 480	26		X			MS Scre.	15	XXXHD	.060
480 500	26		X			A53B	15.31	2 .312	.040
500 660	26		X			MS Scre.	15	XXXHD	.060
600 760	26		X			A53B	15.31	2 .312	.080

ANNULAR MATERIAL

DEPTH FROM SURFACE Ft. to Ft.	TYPE CEMENT (✓)	BENTONITE (✓)	FILL (✓)	FILTER PACK (TYPE/SIZE)
0 50	X			10 sack
50 765			X	1/4x10

ATTACHMENTS (✓)

XX Geologic Log
___ Well Construction Diagram
___ Geophysical Log(s)
___ Soil/Water Chemical Analyses
___ Other _____

ATTACH ADDITIONAL INFORMATION, IF IT EXISTS.

CERTIFICATION STATEMENT

I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief.

NAME Rottman Drilling Co. (PERSON, FIRM, OR CORPORATION) (TYPED OR PRINTED)
46471 North Division ST., Lancaster CA 93535
ADDRESS CITY STATE ZIP
Signed _____ (WELL DRILLER/AUTHORIZED REPRESENTATIVE) DATE SIGNED 2/26/01
316599 C-57 LICENSE NUMBER

DWR 188 REV. 11-97

IF ADDITIONAL SPACE IS NEEDED, USE NEXT CONSECUTIVELY NUMBERED FORM

ORIGINAL
File with DWR

Page 1 of 1

STATE OF CALIFORNIA
WELL COMPLETION REPORT
Refer to Instruction Pamphlet

No. e017191

DWR USE ONLY — DO NOT FILL IN
STATE WELL NO /STATION NO.
LATITUDE LONGITUDE
APN/TRS/OTHER

Owner's Well No. Dack 29-35SW
Date Work Began 12/16/04, Ended 1/26/05
Local Permit Agency Los Angeles
Permit No. N/A Permit Date 12/16/04

GEOLOGIC LOG

ORIENTATION (✓) ___ VERTICAL ___ HORIZONTAL ___ ANGLE ___ (SPECIFY)
DRILLING METHOD ___ FLUID ___

DEPTH FROM SURFACE Ft to Ft	DESCRIPTION *Describe material, grain size, color, etc.*
0 62	fine to coarse sand
62 150	med to coarse sand w/ clay lenses
150 340	med. to coarse sand - cemented layers
340 400	fine to med. sand
400 440	fine to coarse sand
440 500	fine to med sand w/clay lenses
500 510	fine sand
510 580	fine to coarse sand
580 630	fine to coarse sand w/ cementing
630 640	dry clay - cemented
640 670	med to coarse sand-fractures
670 720	fracture - decomposed granite
720 765	decomposed granite

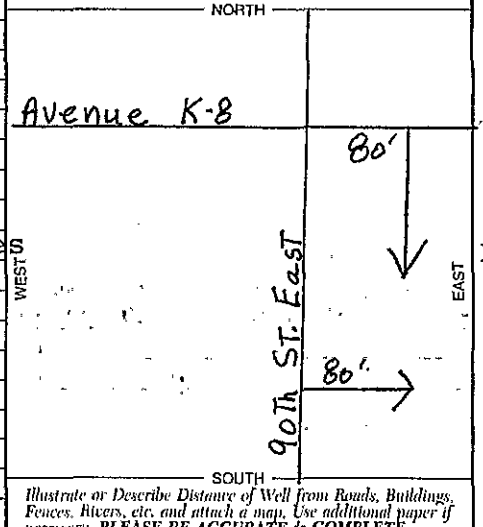
TOTAL DEPTH OF BORING 765 (Feet)
TOTAL DEPTH OF COMPLETED WELL 710 (Feet)

WELL OWNER

WELL LOCATION

Address 90th St. East & Avenue K-8
City Lancaster
County Los Angeles
APN Book 3378 Page 003 Parcel 001
Township 7N Range 10W Section NW¼, SW¼SW¼ Sec29
Latitude ___ DEG ___ MIN ___ SEC NORTH Longitude ___ DEG ___ MIN ___ SEC WEST

LOCATION SKETCH



Illustrate or Describe Distance of Well from Roads, Buildings, Fences, Rivers, etc. and attach a map. Use additional paper if necessary. PLEASE BE ACCURATE & COMPLETE.

ACTIVITY (✓)
X NEW WELL
MODIFICATION/REPAIR
___ Deepen
___ Other (Specify)
___ DESTROY (Describe Procedures and Materials Under "GEOLOGIC LOG")

PLANNED USES (✓)
WATER SUPPLY
___ Domestic ___ Public
X Irrigation ___ Industrial
___ MONITORING
___ TEST WELL
___ CATHODIC PROTECTION
___ HEAT EXCHANGE
___ DIRECT PUSH
___ INJECTION
___ VAPOR EXTRACTION
___ SPARGING
___ REMEDIATION
___ OTHER (SPECIFY)

WATER LEVEL & YIELD OF COMPLETED WELL

DEPTH TO FIRST WATER 326 (Ft.) BELOW SURFACE
DEPTH OF STATIC WATER LEVEL 326 (Ft.) & DATE MEASURED 1/26/05
ESTIMATED YIELD * 2250 (GPM) & TEST TYPE Pump
TEST LENGTH 8 (Hrs.) TOTAL DRAWDOWN 48 (Ft.)
* *May not be representative of a well's long-term yield.* PL 374'

DEPTH FROM SURFACE Ft to Ft	BORE-HOLE DIA. (Inches)	CASING (S) TYPE (✓) BLANK	SCREEN	CONDUCTOR	FILL PIPE	MATERIAL / GRADE	INTERNAL DIAMETER (Inches)	GAUGE OR WALL THICKNESS	SLOT SIZE IF ANY (inches)
0 360	26	X				A53B	15.380	.312	
360 480	26		X			MSWRS	15	XXXHD	.060
480 500	26		X			A53B	15.380	.312	.040
500 710	26		X			A53B	15.380	.312	.080
0 60					X	PVC	3"	Sch 40	

DEPTH FROM SURFACE Ft to Ft	ANNULAR MATERIAL TYPE CEMENT (✓)	BENTONITE (✓)	FILL (✓)	FILTER PACK (TYPE/SIZE)
0 50	X			10 sack
50 715			X	¼ x 10

ATTACHMENTS (✓)

___ Geologic Log
___ Well Construction Diagram
X Geophysical Log(s)
___ Soil/Water Chemical Analyses
___ Other ___

ATTACH ADDITIONAL INFORMATION, IF IT EXISTS.

CERTIFICATION STATEMENT

I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief.

NAME Rottman Drilling CO (PERSON, FIRM, OR CORPORATION) (TYPED OR PRINTED)
ADDRESS 46471 N. Division St. CITY Lancaster, STATE CA ZIP 93535
Signed [signature] Bus. (WELL DRILLER/AUTHORIZED REPRESENTATIVE)
DATE SIGNED 2/3/05
C-57 LICENSE NUMBER 316599

DWR 188 REV 11-97

IF ADDITIONAL SPACE IS NEEDED, USE NEXT CONSECUTIVELY NUMBERED FORM