



PHASE I ENVIRONMENTAL SITE ASSESSMENT REPORT

Hu and Garces

APNs 3203-034-010 & 3203-034-011
Lancaster, California 93536

Report Date: October 14, 2022
Partner Project No. 22-388018.1



Prepared for:

Terra-Gen, LLC

11455 El Camino Real, Suite 160
San Diego, California 92130

October 14, 2022

Ms. Amy Roth
Terra-Gen, LLC
11455 El Camino Real, Suite 160
San Diego, California 92130

Subject: Phase I Environmental Site Assessment
Hu and Garces
APNs 3203-034-010 & 3203-034-011
Lancaster, California 93536
Partner Project No. 22-388018.1

Dear Ms. Roth:

Partner Engineering and Science, Inc. (Partner) is pleased to provide this Phase I Environmental Site Assessment (Phase I ESA) report of the abovementioned address (the "subject property"). This assessment was performed in conformance with the scope and limitations as detailed in the ASTM Practice E1527-13 and E1527-21 Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process and Client Agreement.

This assessment included a site reconnaissance as well as research and interviews with representatives of the public, property ownership, site manager, and regulatory agencies. An assessment was made, conclusions stated, and recommendations outlined.

We appreciate your trust in Partner and the opportunity to provide environmental services to you. If you have any questions concerning this report, or if we can assist you in any other matter, please contact me at (619) 925-9672.

Sincerely,



Mark Lambson
Principal

EXECUTIVE SUMMARY

Partner Engineering and Science, Inc. (Partner) has performed a Phase I Environmental Site Assessment (ESA) in accordance with the scope of work and limitations of ASTM E1527-13 and E1527-21, the Environmental Protection Agency Standards and Practices for All Appropriate Inquiries (AAI) (40 CFR Part 312) and the environmental consulting services agreement with Terra-Gen, LLC for the property located at the northwest corner of 90th Street West and West Avenue J-6 (Assessor Parcel Numbers [APNs] 3203-034-010 & 3203-034-011) in Lancaster, Los Angeles County, California (the "subject property").

Property Description

The subject property is located on the northwest corner of 90th Street West and West Avenue J-6 within a mixed use/undeveloped area of Los Angeles County. Please refer to the table below for further description of the subject property:

Subject Property Data

Address(es):	No situs address, Lancaster, California
Property Use:	Vacant Land
Land Acreage (Ac):	19.6 (Total)
Assessor's Parcel Number (APN):	3203-034-010 (Hu Parcel); 3203-034-011 (Garces Parcel)
Current Tenants:	N/A, vacant land
Site Assessment Performed By:	Heidi Yavornicky of Partner
Site Assessment Conducted On:	October 05, 2022
Regulatory Radius Report Date:	October 04, 2022
Lien Search Date:	N/A
Report Date:	October 14, 2022
FOIAs Date:	October 2022

Other than several unpaved roadways/trails, there is no onsite development or onsite operations.

According to available historical sources, the subject property was formerly agricultural land as early as 1928 through 1974, and fallow (vacant) land since at least 1987. No tenant history was listed in the city directories reviewed by ERIS.

The adjoining properties are tabulated below:

Immediately Surrounding Properties

Direction	Adjoining Property
North	Vacant land
Northeast	90th Street West, followed by vacant land
East	90th Street West, followed by vacant land
Southeast	90th Street West, followed by vacant land, with a residential property beyond
South	West Avenue J-8 (unimproved), followed by vacant land
Southwest	West Avenue J-8 (unimproved), followed by vacant land
West	Vacant land, with the Southern California Edison Antelope Substation beyond
Northwest	Vacant land

According to topographic map interpretation and Physical Settings Report, the physical setting features of the subject property identify the terrain as sloping to the north-northeast with the depth to groundwater

in the vicinity of the subject property inferred to be approximately over 200 feet below ground surface (bgs) and groundwater flow inferred to be toward the north-northeast.

Findings and Opinions

Recognized Environmental Condition

A *recognized environmental condition* (REC) refers to the presence of hazardous substances or petroleum products in, on, or at the subject property due to a release to the environment; the likely presence of hazardous substances or petroleum products in, on, or at the subject property due to a release or likely release to the environment; or the presence of hazardous substances or petroleum products in, on, or at the subject property under conditions that pose a material threat of a future release to the environment. The following was identified during the course of this assessment:

- Partner did not identify any RECs during the course of this assessment.

Controlled Recognized Environmental Condition

A *controlled recognized environmental condition* (CREC) refers to a REC affecting the subject property that has been addressed to the satisfaction of the applicable regulatory authority or authorities with hazardous substances or petroleum products allowed to remain in place subject to implementation of required controls (for example, activity and use limitations or other property use limitations). The following was identified during the course of this assessment:

- Partner did not identify any CRECs during the course of this assessment.

Historical Recognized Environmental Condition

A *historical recognized environmental condition* (HREC) refers to a previous release of hazardous substances or petroleum products affecting the subject property that has been addressed to the satisfaction of the applicable regulatory authority or authorities and meeting unrestricted use criteria established by the applicable regulatory authority or authorities without subjecting the subject property to any controls (for example, activity and use limitations or other property use limitations). The following was identified during the course of this assessment:

- Partner did not identify any HRECs during the course of this assessment.

Business Environmental Risk

A *Business Environmental Risks* (BER) is a risk which can have a material environmental or environmentally driven impact on the business associated with the current or planned use of commercial real estate, not necessarily related to those environmental issues required to be investigated in this practice. The following was identified during the course of this assessment:

- The subject property was historically used for agricultural purposes. There is a potential that pesticides, herbicides, and fertilizers were used onsite. However, it is likely that potential concentrations of these chemicals have degraded over time, as the property has not been used for agricultural purposes for over 30 years. Based on the length of time that has passed since agricultural use, this former use of the property is unlikely to represent an environmental concern and Partner recommends no further investigation regarding this issue.

Significant Data Gaps

No significant data gaps affecting the ability of the Environmental Professional to identify a REC were encountered during this assessment.

Conclusions and Recommendations

Partner has performed a Phase I Environmental Site Assessment in conformance with the scope and limitations of ASTM E1527-13 and E1527-21 of APN 3203-034-010 & 3203-034-011 in Lancaster, Los Angeles County, California (the "subject property"). Any exceptions to, or deletions from, this practice are described in Section 1.5 of this report.

This assessment has revealed no evidence of RECs, CRECs, or HRECs in connection with the subject property. Based on the conclusions of this assessment, Partner recommends no further investigation regarding the subject property.

TABLE OF CONTENTS

1.0 INTRODUCTION.....	1
1.1 Purpose.....	1
1.2 Scope of Work.....	1
1.3 Limitations.....	2
1.4 User Reliance.....	2
1.5 Limiting Conditions	3
2.0 SITE DESCRIPTION.....	4
2.1 Site Location and Legal Description	4
2.2 Current Property Use	4
2.3 Current Use of Adjoining Properties.....	4
2.4 Physical Setting Sources	4
2.4.1 Topography.....	4
2.4.2 Hydrology.....	5
2.4.3 Geology/Soils.....	5
2.4.4 Flood Zone Information.....	5
3.0 HISTORICAL INFORMATION.....	6
3.1 Aerial Photograph Review	6
3.2 Fire Insurance Maps	7
3.3 City Directories	7
3.4 Historical Topographic Maps.....	7
4.0 REGULATORY RECORDS REVIEW	8
4.1 Regulatory Agencies	8
4.1.1 State Department	8
4.1.2 Health Department	8
4.1.3 Fire Department.....	8
4.1.4 Air Pollution Control Agency	8
4.1.5 Regional Water Quality Agency.....	9
4.1.6 Department of Toxic Substances Control.....	9
4.1.7 Building Department.....	9
4.1.8 Planning Department.....	9
4.1.9 Oil & Gas Exploration.....	10
4.1.10 Assessor's Office.....	10
4.2 Mapped Database Records Search	10
4.2.1 Regulatory Database Summary	11
4.2.2 Subject Property Listings	11
4.2.3 Adjoining Property Listings	11
4.2.4 Surrounding Area Listings of Concern to Subject Property	11
4.2.5 Unplottable Listings.....	12
5.0 USER PROVIDED INFORMATION AND INTERVIEWS	13
5.1 Interviews.....	13
5.1.1 Interview with Owner.....	13
5.1.2 Interview with Report User	13
5.1.3 Interview with Key Site Manager.....	13
5.1.4 Interviews with Past Owners, Operators, and Occupants.....	14

5.2	User Provided Information	14
5.2.1	Title Records, Environmental Liens, and AULs	14
5.2.2	Specialized Knowledge.....	14
5.2.3	Actual Knowledge of the User.....	14
5.2.4	Valuation Reduction for Environmental Issues	14
5.2.5	Commonly Known or Reasonably Ascertainable Information.....	14
5.2.6	Previous Reports and Other Provided Documentation	14
6.0	SITE RECONNAISSANCE	15
6.1	General Site Characteristics.....	15
6.2	Potential Environmental Hazards.....	16
6.3	Non-Scope ASTM Considerations.....	16
6.3.1	Asbestos-Containing Materials (ACMs).....	16
6.3.2	Lead-Based Paint (LBP).....	17
6.3.3	Radon.....	17
6.3.4	Lead in Drinking Water	17
6.3.5	Mold.....	17
6.3.6	Wetlands	18
6.4	Adjoining Property Reconnaissance	18
7.0	VAPOR ENCROACHMENT CONDITIONS.....	19
8.0	FINDINGS AND CONCLUSIONS.....	20
9.0	SIGNATURES OF ENVIRONMENTAL PROFESSIONALS	22
10.0	REFERENCES	23

Figures

Figure 1	Site Location Map
Figure 2	Site Plan
Figure 3	Topographic Map

Appendices

Appendix A	Site Photographs
Appendix B	Historical/Regulatory Documentation
Appendix C	Regulatory Database Report
Appendix D	Qualifications

1.0 INTRODUCTION

Partner Engineering and Science, Inc. (Partner) has performed a Phase I Environmental Site Assessment (ESA) in conformance with the scope and limitations of ASTM E1527-13 and E1527-21 and the Environmental Protection Agency Standards and Practices for All Appropriate Inquiries (AAI) (40 CFR Part 312) for the property located at the northwest corner of 90th Street West and West Avenue J-6 (Assessor Parcel Numbers [APNs] 3203-034-010 & 3203-034-011) in Lancaster, Los Angeles County, California (the "subject property"). Any exceptions to, or deletions from, this scope of work are described in the report.

1.1 Purpose

The purpose of this ESA is to identify existing or potential Recognized Environmental Conditions (as defined by ASTM Standard E1527-13 and E1527-21) affecting the subject property, including those that: 1) constitute or result in a material violation or a potential material violation of any applicable environmental law; 2) impose any material constraints on the operation of the subject property or require a material change in the use thereof; 3) require clean-up, remedial action or other response with respect to Hazardous Substances or Petroleum Products on or affecting the subject property under any applicable environmental law; 4) may affect the value of the subject property; and 5) may require specific actions to be performed with regard to such conditions and circumstances. The information contained in the ESA Report may be used by Client to: 1) evaluate its legal and financial liabilities for transactions related to foreclosure, purchase, sale, loan origination, loan workout or seller financing; 2) evaluate the subject property's overall development potential, the associated market value and the impact of applicable laws that restrict financial and other types of assistance for the future development of the subject property; and/or 3) determine whether specific actions are required to be performed prior to the foreclosure, purchase, sale, loan origination, loan workout or seller financing of the subject property.

This ESA was performed to permit the User to satisfy one of the requirements to qualify for the innocent landowner, contiguous property owner, or bona fide prospective purchaser limitations on scope of Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) (42 U.S.C. §9601) liability (hereinafter, the "landowner liability protections," or "LLPs"). ASTM Standard E1527-13 constitutes "all appropriate inquiries into the previous ownership and uses of the property consistent with good commercial or customary practice" as defined at 42 U.S.C. §9601(35)(B).

1.2 Scope of Work

The scope of work for this ESA is in accordance with and to the extent necessary to achieve the goal of the requirements set forth in the ASTM Standard E1527-13 and E1527-21. This assessment included: 1) a property and adjoining site reconnaissance; 2) interviews with key personnel; 3) a review of historical sources; 4) a review of regulatory agency records; and 5) a review of a regulatory database report provided by a third-party vendor. Partner contacted local agencies, such as environmental health departments, fire departments and building departments to obtain readily ascertainable information to determine any current and/or former hazardous substances usage, storage and/or releases of hazardous substances on the subject property. Additionally, Partner researched readily available information on the presence of activity and use limitations (AULs) at these agencies. As defined by ASTM E1527-21, AULs include both legal (that is, institutional) and physical (that is, engineering) controls that may include legal or physical restrictions or

limitations on the use of, or access to, a site or facility: 1) to reduce or eliminate potential exposure to hazardous substances or petroleum products in the soil, soil vapor, groundwater, or surface water on the subject property; or 2) to prevent activities that could interfere with the effectiveness of a response action, in order to ensure maintenance of a condition of no significant risk to public health or the environment. These legal or physical restrictions, which may include institutional and/or engineering controls (IC/ECs), are intended to prevent adverse impacts to individuals or populations that may be exposed to hazardous substances and petroleum products in the soil, soil vapor, groundwater, and/or surface water on a property.

If requested by the Client, this report may also include the identification, discussion of, and/or limited sampling of asbestos-containing materials (ACMs), lead-based paint (LBP), mold, and/or radon.

1.3 Limitations

Partner warrants that the findings and conclusions contained herein were accomplished in accordance with the methodologies set forth in the Scope of Work. These methodologies are described as representing good commercial and customary practice for conducting an ESA of a property for the purpose of identifying recognized environmental conditions. There is a possibility that even with the proper application of these methodologies there may exist on the subject property conditions that could not be identified within the scope of the assessment or which were not reasonably identifiable from the available information. Partner believes that the information obtained from the record review and the interviews concerning the subject property is reliable. However, Partner cannot and does not warrant or guarantee that the information provided by these other sources is accurate or complete. The conclusions and findings set forth in this report are strictly limited in time and scope to the date of the evaluations. The conclusions presented in the report are based solely on the services described therein, 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 other warranties are implied or expressed.

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 report is subject to the limitations of historical documentation, availability, and accuracy of pertinent records, and the personal recollections of those persons contacted.

This practice does not address requirements of any state or local laws or of any federal laws other than the All Appropriate Inquiries provisions of the LLPs. Further, this report does not intend to address all of the compliance and safety concerns, if any, associated with the subject property. Environmental concerns, which are beyond the scope of a Phase I ESA as defined by ASTM include the following: ACMs, LBP, radon, and lead in drinking water. These issues may affect environmental risk at the subject property and may warrant discussion and/or assessment; however, are considered non-scope issues. If specifically requested by the Client, these non-scope issues are discussed in Section 6.3.

1.4 User Reliance

Terra-Gen, LLC engaged Partner to perform this assessment in accordance with an agreement governing the nature, scope and purpose of the work as well as other matters critical to the engagement. All reports, both verbal and written, are for the sole use and benefit of Terra-Gen, LLC. Either verbally or in writing, third parties may come into possession of this report or all or part of the information generated as a result of

this work. In the absence of a written agreement with Partner granting such rights, no third parties shall have rights of recourse or recovery whatsoever under any course of action against Partner, its officers, employees, vendors, successors or assigns. In the event of any conflict between the terms and conditions of this report and the terms and conditions of the environmental consulting services agreement between Terra-Gen and Partner Engineering (the "MSA"), the MSA shall control.

1.5 Limiting Conditions

The findings and conclusions contain all of the limitations inherent in these methodologies that are referred to in ASTM E1527-13 and E1527-21.

Specific limitations and exceptions to this ESA are more specifically set forth below:

- Interviews with past or current owners, operators and occupants were not reasonably ascertainable and thus constitute a data gap. Based on information obtained from other historical sources, this data gap is not expected to alter the findings of this assessment and does not represent a significant data gap.
- Partner was not able to document the historical use of the subject property prior to 1928, prior to development, since city directories were not available prior to 1975, aerial photographs prior to 1928, topographic maps prior to 1931 were not reasonably ascertainable from local agencies and other historical sources such as fire insurance maps did not provide coverage of the subject property. This data failure is not considered critical and does not change the conclusions of this report, as the 1928 aerial photograph revealed the subject property to be agricultural land. In addition, the adjacent and surrounding areas are depicted primarily as agricultural land with rural residential properties interspersed.
- Partner was unable to determine the property use at 5-year intervals, which constitutes a data gap but not a significant data gap. Except for property tax files and recorded land title records, which were not considered to be sufficiently useful, Partner reviewed all standard historical sources and conducted appropriate interviews.

2.0 SITE DESCRIPTION

2.1 Site Location and Legal Description

The subject property, identified as APNs 3203-034-010 & 3203-034-011 in Lancaster, California, is located on the northwest corner of 90th Street West and West Avenue J-6. No legal description provided by the Los Angeles County Assessor. According to Los Angeles County Assessor, ownership has been vested in Elizabeth Hu (APN 3203-034-010) and Amanda Garces (APN 3203-034-011) since 2016 and 1983, respectively.

Please refer to Figure 1: Site Location Map, Figure 2: Site Plan, Figure 3: Topographic Map, and Appendix A: Site Photographs for the location and site characteristics of the subject property.

2.2 Current Property Use

The subject property is currently vacant land. There are currently no onsite operations.

The subject property is designated for residential development by the City of Lancaster.

The subject property was not identified in the regulatory database report of Section 4.2.

2.3 Current Use of Adjoining Properties

The subject property is located within a mixed use/undeveloped area of Los Angeles County. During the vicinity reconnaissance, Partner observed the land uses on adjoining properties as defined in ASTM E1527-13 and E1527-21 as any real property or properties the border of which is contiguous or partially contiguous with that of the property, or that would be contiguous or partially contiguous with that of the property but for a street, road, or other public thoroughfare separating them. The adjoining properties are tabulated below:

<i>Immediately Surrounding Properties</i>	
Direction	Adjoining Property
North	Vacant land
Northeast	90th Street West, followed by vacant land
East	90th Street West, followed by vacant land
Southeast	90th Street West, followed by vacant land, with a residential property beyond
South	West Avenue J-8 (unimproved), followed by vacant land
Southwest	West Avenue J-8 (unimproved), followed by vacant land
West	Vacant land, with the Southern California Edison Antelope Substation beyond
Northwest	Vacant land

The adjoining properties were not in the regulatory database report of Section 4.2.

2.4 Physical Setting Sources

2.4.1 Topography

The 2021 United States Geological Survey (USGS) *Del Sur, California* Quadrangle 7.5-minute series topographic map was reviewed for this ESA. According to the contour lines on the topographic map, the subject property is located at approximately 2,443 feet above mean sea level (MSL). The contour lines in the area of the subject property indicate the area is sloping gently towards the north-northeast.

A copy of the most recent topographic map is included as Figure 3 of this report.

2.4.2 Hydrology

While under natural and undisturbed conditions shallow groundwater flow most frequently follows the topography of the land surface, natural or man-made features can affect flow direction, and the presumed flow may not match the actual flow directions at the subject property and vicinity. Topographic map interpretation suggests the direction of groundwater flow in the vicinity of the subject property is inferred to be toward the north-northeast.

According to Physical Settings Report, the depth of groundwater in the vicinity of the subject property is inferred to be approximately over 200 feet bgs.

The nearest surface water in the vicinity of the subject property is (the) California Aqueduct located approximately 2.1-miles and southwest of the subject property. No settling ponds, lagoons, surface impoundments, wetlands or natural catch basins were observed at the subject property during this assessment.

According to available information, a public water system operated by the California Water Service serves the subject property vicinity. The sources of public water for the City of Lancaster are surface water purchased from Antelope Valley-East Kern Water Agency (AVEK) as well as two local aquifer groundwater wells.

2.4.3 Geology/Soils

Based on information obtained from the United States Department of Agriculture (USDA) Natural Resources Conservation Service Web Soil Survey online database, the subject property is mapped as Greenfield sandy loam. The Greenfield series consists of well drained soils that formed from alluvium derived from granite. Slopes range from 2 to 9 percent.

The subject property is situated within the Antelope Valley at the western edge of the Mojave Desert. The Antelope Valley consists of Tertiary and Quaternary alluvial deposits originating from the adjacent mountains. The subject property lies on a Quaternary alluvial deposit, described as a consolidated, dark-yellowish-brown, silty, fine arkosic sand with clay and calcium carbonate deposits (caliche). The carbonate was likely deposited during fluctuating groundwater conditions in former pluvial Lake Thompson that was present in the areas during the late Pleistocene epoch. Sedimentary deposits are generally distal fan sediments near the edges of the former lake shoreline (USGS, 2010). The Antelope Valley is bounded to the south by the San Andreas Fault zone and the San Gabriel Mountains; to the northwest by the Garlock Fault zone and the Tehachapi Mountains; and to the east by the hills, ridges, and buttes.

2.4.4 Flood Zone Information

Partner performed a review of the Flood Insurance Rate Map, published by the Federal Emergency Management Agency. According to Community Panel Number 06037C0400F, dated September 26, 2008, the subject property appears to be located in Zone X (unshaded); defined as minimal risk areas outside the 1-percent and 0.2-percent-annual-chance floodplains.

A copy of the reviewed flood map is included in Appendix B of this report.

3.0 HISTORICAL INFORMATION

Partner obtained historical use information about the subject property from a variety of sources. A chronological listing of the historical data found is summarized in the table below:

Historical Use Information

Years	Resource	Description/Use
1928 to 1974	Aerial Photographs	Agricultural Land
1987 to present	Aerial Photographs, Topographic Maps	Fallow (vacant) Land

No tenant history was listed in the city directories reviewed by ERIS.

The subject property was historically used for agricultural purposes. There is a potential that pesticides, herbicides, and fertilizers were used onsite. However, it is likely that potential concentrations of these chemicals have degraded over time, as the property has not been used for agricultural purposes for over 30 years. Based on the length of time that has passed since agricultural use, this former use of the property is not expected to represent a significant environmental concern.

No other potential environmental concerns were identified in association with the current or former use of the subject property.

3.1 Aerial Photograph Review

Partner obtained available aerial photographs of the subject property and surrounding area from Environmental Risk Information Services (ERIS) on October 04, 2022. The inferred uses of the subject property and adjoining properties as interpreted from the aerial photographs in Appendix B are tabulated below:

Date:	1928, 1948, 1959, 1968, 1974	Scale:	1"=500'
Subject Property:	Appears to be agricultural land		
North:	Appears to be agricultural land		
Northeast:	Appears to be an unimproved road, followed by agricultural land		
East:	Appears to be an unimproved road, followed by agricultural land		
Southeast:	Appears to be an unimproved road, followed by agricultural land		
South:	Appears to be agricultural land		
Southwest:	Appears to be agricultural land		
West:	Appears to be agricultural land		
Northwest:	Appears to be agricultural land		
Date:	1987, 1994, 2002, 2005, 2009, 2010, 2012, 2014, 2016, 2018, 2020	Scale:	1"=500'
Subject Property:	Appears to be fallow land; unimproved roadways/trails bound the subject property		
North:	Appears to be fallow land		
Northeast:	Appears to be an improved roadway (currently West 90th Street), followed by fallow land		
East:	Appears to be an improved roadway (currently West 90th Street), followed by fallow land		
Southeast:	Appears to be an improved roadway (currently West 90th Street), followed by fallow land		
South:	Appears to be fallow land		

Date:	1928, 1948, 1959, 1968, 1974	Scale:	1"=500'
Southwest:	Appears to be fallow land		
West:	Appears to be fallow land		
Northwest:	Appears to be fallow land		

Copies of reviewed aerial photographs are included in Appendix B of this report.

3.2 Fire Insurance Maps

Partner reviewed the collection of Fire insurance maps (FIMS) from ERIS on October 04, 2022. FIM coverage was not available for the subject property.

A copy of the ERIS FIM no coverage letter is included in Appendix B of this report.

3.3 City Directories

Partner reviewed historical city directories obtained from ERIS on October 05, 2022 for past names and businesses that were listed for the subject property and adjoining properties. City directories were not identified for the subject property and vicinity. Area listings along 90th Street West and West Avenue J were residential and commercial in nature.

Copies of reviewed city directories are included in Appendix B of this report.

3.4 Historical Topographic Maps

Partner reviewed historical topographic maps obtained from ERIS on October 04, 2022. The following inferred uses of the subject property and adjoining properties interpreted from topographic maps in Appendix B and are tabulated below:

Date:	1931, 1936, 1958, 1974, 1995
Subject Property:	No development depicted
North:	No development depicted
Northeast:	90th Street west, with no development depicted beyond
East:	90th Street west, with no development depicted beyond
Southeast:	90th Street west, with no development depicted beyond
South:	No development depicted
Southwest:	No development depicted
West:	No development depicted
Northwest:	No development depicted
Date:	2015, 2018, 2021
Subject Property:	Other than roadways and select landmarks, no site specific features depicted
North:	Other than roadways and select landmarks, no site specific features depicted
Northeast:	Other than roadways and select landmarks, no site specific features depicted
East:	Other than roadways and select landmarks, no site specific features depicted
Southeast:	Other than roadways and select landmarks, no site specific features depicted
South:	Other than roadways and select landmarks, no site specific features depicted
Southwest:	Other than roadways and select landmarks, no site specific features depicted
West:	Other than roadways and select landmarks, no site specific features depicted
Northwest:	Other than roadways and select landmarks, no site specific features depicted

Copies of reviewed topographic maps are included in Appendix B of this report.

4.0 REGULATORY RECORDS REVIEW

4.1 Regulatory Agencies

4.1.1 State Department

Regulatory Agency Data

Name of Agency: California Environmental Protection Agency (Cal/EPA)
Point of Contact: <https://siteportal.calepa.ca.gov/nsite/map/help>
Agency Address: 1001 I Street, Sacramento, California
Agency Phone Number: (916) 323-2514
Date of Contact: October 03, 2022
Method of Communication: Online
Summary of Communication:
No records regarding hazardous substance use, storage or releases, or the presence of underground storage tanks (USTs) and activity and use limitations (AULs) on the subject property were on file with the Cal/EPA.

4.1.2 Health Department

Regulatory Agency Data

Name of Agency: Los Angeles County Public Health Investigation (LACPHI)
Point of Contact: <http://publichealth.lacounty.gov/phi/>
Agency Address: 5555 Fergusson Drive, Commerce, California
Agency Phone Number: (323) 890-7806
Date of Contact: October 03, 2022
Method of Communication: Online
Summary of Communication:
A search for records could not be conducted without a situs address/facility identification number.

4.1.3 Fire Department

Regulatory Agency Data

Name of Agency: Los Angeles County Fire Department
Point of Contact: <https://fire.lacounty.gov/public-records-requests/>
Agency Address: NA
Agency Phone Number: NA
Date of Contact: October 03, 2022
Method of Communication: Online
Summary of Communication:
A search for records could not be conducted without a situs address/facility identification number.

4.1.4 Air Pollution Control Agency

Regulatory Agency Data

Name of Agency: Antelope Valley Air Quality Management District (AVAQMD)
Point of Contact: AVAQMD Staff
Agency Address: 2551 West Avenue H, Suite 102, Lancaster, California 93536
Agency Phone Number: (661) 723-8070
Date of Contact: October 03, 2022
Method of Communication: Telephone

Regulatory Agency Data

Summary of Communication:

A search for records could not be conducted without a situs address/facility identification number.

4.1.5 Regional Water Quality Agency

Regulatory Agency Data

Name of Agency: Regional Water Quality Control Board (RWQCB)
Point of Contact: <https://geotracker.waterboards.ca.gov/>
Agency Address: 320 West 4th Street, Suite 200, Los Angeles, California
Agency Phone Number: (213) 576-6600
Date of Contact: October 03, 2022
Method of Communication: Online

Summary of Communication:

No records regarding hazardous substance use, storage or releases, or the presence of USTs and AULs on the subject property were on file with the RWQCB.

4.1.6 Department of Toxic Substances Control

Regulatory Agency Data

Name of Agency: California Department of Toxic Substances Control (DTSC)
Point of Contact: <https://www.envirostor.dtsc.ca.gov/public/>
Agency Address: 9211 Oakdale Avenue, Chatsworth, California
Agency Phone Number: (213) 576-6600
Date of Contact: October 03, 2022
Method of Communication: Online

Summary of Communication:

No records regarding hazardous substance use, storage or releases, or the presence of USTs and AULs on the subject property were on file with the DTSC.

4.1.7 Building Department

Regulatory Agency Data

Name of Agency: City of Lancaster
Point of Contact: <https://aca-prod.accela.com/LANCASTER/Default.aspx>
Agency Address: 44933 Fern Avenue, Lancaster, California 93534
Agency Phone Number: (661) 723-6000
Date of Contact: October 03, 2022
Method of Communication: Online

Summary of Communication:

No building permit records were found for the subject property back to 2000.

4.1.8 Planning Department

Regulatory Agency Data

Name of Agency: City of Lancaster
Point of Contact: <https://www.cityoflanasterca.org/Home/ShowDocument?id=10749>
Agency Address: 44933 Fern Avenue, Lancaster, California 93534
Agency Phone Number: (661) 723-6000
Date of Contact: October 03, 2022
Method of Communication: Online

Summary of Communication:

Regulatory Agency Data

According to records reviewed, the subject property is zoned RR-2.5 for residential development by the City of Lancaster.

4.1.9 Oil & Gas Exploration

Regulatory Agency Data

Name of Agency: California Division of Oil, Gas and Geothermal Resources (CalGEM)
Point of Contact: <https://maps.conservation.ca.gov/doggr/wellfinder/#openModal/-118.94276/37.12009/6>
Agency Address: 715 P Street, MS 1900, Sacramento, California
Agency Phone Number: (916) 322-1080
Date of Contact: October 03, 2022
Method of Communication: Online
Summary of Communication: According to CalGEM, no oil or gas wells are located on or adjoining to the subject property.

4.1.10 Assessor's Office

Regulatory Agency Data

Name of Agency: Los Angeles County Assessor
Point of Contact: <https://portal.assessor.lacounty.gov/>
Agency Address: 500 West Temple Street, Room 225, Los Angeles, California
Agency Phone Number: (213) 974-3211
Date of Contact: October 03, 2022
Method of Communication: Online
Summary of Communication: According to records reviewed, the subject property is identified by APNs 3203-034-010 totaling approximately 9.29-acres and owned by Elizabeth Hu since 2016, and APN 3203-034-011 totaling approximately 10.31-acres and owned by Amanda Garces since 1983.

Copies of pertinent documents from the above listed agencies are included in Appendix B of this report.

4.2 Mapped Database Records Search

The regulatory database report provided by ERIS documents the listing of sites identified on federal, state, county, city, and tribal (when applicable) standard source environmental databases within the approximate minimum search distance (AMSD) specified by ASTM E1527-13 and E1527-21. The data from these sources are updated as these data are released and integrated into one database. The information contained in this report was compiled from publicly available sources.

The environmental database information is used to identify environmental concerns in connection with the subject property. The listings also serve to identify the known indications of the storage, use, generation, disposal, or release of hazardous substance at the subject property and the potential for contaminants to migrate onto the subject property from off-site sources in groundwater or soil in the form of liquids or vapor.

Using the ASTM definition of migration, Partner considers the migration of hazardous substances or petroleum products in any form onto the subject property during the evaluation of each site listed on the radius report, which includes solid, liquid, and vapor.

4.2.1 Regulatory Database Summary

The following table lists the number of sites as categorized by the regulatory database within the prescribed AMSD. The locations of the sites are plotted utilizing a geographic information system, which geocodes the site addresses. The accuracy of the geocoded locations is approximately +/-300 feet.

Radius Report Data				
Database	AMSD Radius (mile)	Subject Property	Adjoining Properties	Sites of Concern
Federal NPL	1.00	N	N	N
Delisted NPL Site	0.50	N	N	N
Federal SEMS Site	0.50	N	N	N
Federal SEMS-ARCHIVE	0.50	N	N	N
Federal RCRA CORRACTS Facility	1.00	N	N	N
Federal RCRA TSDF Facility	0.50	N	N	N
Federal RCRA Generators Site (LQG, SQG, VSQG, CESQG)	Subject and Adjoining	N	N	N
Federal IC/EC Registries	Subject Property	N	N	N
Federal ERNS Site	Subject Property	N	N	N
State/Tribal Equivalent NPL	1.00	N	N	N
State/Tribal Equivalent CERCLIS	1.00	N	N	N
State/Tribal Landfill/Solid Waste Disposal Site	0.50	N	N	N
State/Tribal Leaking Storage Tank Site (LUST/LPST)	0.50	N	N	N
State/Tribal Registered Storage Tank Sites (UST/AST)	Subject and Adjoining	N	N	N
State/Tribal IC/EC Registries	Subject and Adjoining	N	N	N
State/Tribal Voluntary Cleanup Sites (VCP)	0.50	N	N	N
State/Tribal Spills	0.25	N	N	N
Federal Brownfield Sites	0.50	N	N	N
State Brownfield Sites	0.50	N	N	N

4.2.2 Subject Property Listings

The subject property is not identified in the regulatory database report.

4.2.3 Adjoining Property Listings

The adjoining properties are not identified in the regulatory database report.

4.2.4 Surrounding Area Listings of Concern to Subject Property

No sites of concern are identified in the regulatory database report.

Based on the findings, vapor migration does not represent an environmental concern to the subject property.

4.2.5 Unplottable Listings

No unplottable listings are identified in the regulatory database report.

A copy of the regulatory database report is included in Appendix C of this report.

5.0 USER PROVIDED INFORMATION AND INTERVIEWS

In order to qualify for one of the *Landowner Liability Protections (LLPs)* offered by the Small Business Liability Relief and Brownfields Revitalization Act of 2001 (the *Brownfields Amendments*), the *User* must conduct the following inquiries required by 40 CFR 312.25, 312.28, 312.29, 312.30, and 312.31. The *User* should provide the following information to the *environmental professional*. Failure to provide this information could result in a determination that *all appropriate inquiries* is not complete. The *User* is asked to provide information or knowledge of the following:

- Review Title and Judicial Records for Environmental Liens and AULs
- Specialized Knowledge or Experience of the User
- Actual Knowledge of the User
- Reason for Significantly Lower Purchase Price
- Commonly Known or *Reasonably Ascertainable* information
- Degree of Obviousness
- Reason for Preparation of this Phase I ESA

Fulfillment of these user responsibilities is key to qualification for the identified defenses to CERCLA liability. Partner requested our Client to provide information to satisfy User Responsibilities as identified in Section 6 of the ASTM guidance.

Pursuant to ASTM E1527-13 and E1527-21, Partner requested the following site information from Terra-Gen, LLC (User of this report).

User Responsibilities

Item	Provided By User	Not Provided By User
AAI User Questionnaire	X	
Title Records, Environmental Liens, and AULs		X
Specialized Knowledge		X
Actual Knowledge		X
Valuation Reduction for Environmental Issues		X
Identification of Key Site Manager		X
Reason for Performing Phase 1 ESA		X
Prior Environmental Reports		X
Other		X

5.1 Interviews

5.1.1 Interview with Owner

The owners of the subject property, Elizabeth Hu and Amanda Garces, were not available to be interviewed at the time of the assessment. The lack of this information does not represent a significant data gap.

5.1.2 Interview with Report User

Please refer to Section 5.2 below for information requested from the Report User.

5.1.3 Interview with Key Site Manager

The owners of the subject property, Elizabeth Hu and Amanda Garces, who also represent the key site managers, were not available to be interviewed at the time of the assessment.

5.1.4 Interviews with Past Owners, Operators, and Occupants

Interviews with past owners, operators and occupants were not conducted since information regarding the potential for contamination at the subject property was obtained from other sources.

5.2 User Provided Information

5.2.1 Title Records, Environmental Liens, and AULs

Partner was not provided with title records or environmental lien and AUL information for review as part of this assessment.

5.2.2 Specialized Knowledge

The User did not have specialized knowledge of environmental conditions associated with the subject property at the time of the assessment.

5.2.3 Actual Knowledge of the User

The User was not aware of environmental liens and/or AULs encumbering the subject property or in connection with the subject property at the time of the assessment.

5.2.4 Valuation Reduction for Environmental Issues

The User was not aware of any reductions in property value due to environmental issues.

5.2.5 Commonly Known or Reasonably Ascertainable Information

The User did not provide information that is commonly known or reasonably ascertainable within the local community about the subject property at the time of the assessment.

5.2.6 Previous Reports and Other Provided Documentation

No previous reports or other pertinent documentation was provided to Partner for review during the course of this assessment.

6.0 SITE RECONNAISSANCE

The weather at the time of the site visit was sunny and clear. Refer to Section 1.5 for limitations encountered during the field reconnaissance and Sections 2.1 and 2.2 for subject property operations. The table below provides the site assessment details:

Site Assessment Data

Site Assessment Performed By: Heidi Yavornicky

Site Assessment Conducted On: October 05, 2022

Partner was unaccompanied during the site reconnaissance.

No potential environmental concerns were identified during the onsite reconnaissance.

Non-ASTM issues are discussed in Section 6.3.

6.1 General Site Characteristics

6.1.1 Solid Waste Disposal

Solid waste is not currently generated onsite. No evidence of illegal dumping of solid waste was observed during the Partner site reconnaissance.

6.1.2 Sewage Discharge and Disposal

No wastewater treatment facilities were observed or reported on the subject property. No septic systems were observed or reported on the subject property.

6.1.3 Stormwater and Surface Water Drainage

Stormwater is removed from the property primarily due to ground infiltration. No drywells were identified on the subject property.

6.1.4 Source of Heating and Cooling

Based on the lack of onsite structures, no heating or cooling sources were observed onsite, and there is no hot water provided onsite.

6.1.5 Wells and Cisterns

No aboveground evidence of wells or cisterns was observed during the site reconnaissance.

6.1.6 Wastewater

Domestic wastewater is not generated at the subject property. No industrial processes are currently performed at the subject property.

6.1.7 Septic Systems

No septic systems were observed or reported on the subject property.

6.1.8 Additional Site Observations

No additional general site characteristics were observed during the site reconnaissance.

6.2 Potential Environmental Hazards

6.2.1 Hazardous Substances and Petroleum Products Used or Stored at the Subject Property

No hazardous substances or petroleum products were observed on the subject property during the site reconnaissance.

6.2.2 Aboveground & Underground Hazardous Substance or Petroleum Product Storage Tanks (ASTs/USTs)

No evidence of current or former ASTs or USTs was observed during the site reconnaissance.

6.2.3 Evidence of Releases

No spills, stains or other indications that a surficial release has occurred at the subject property were observed.

6.2.4 Polychlorinated Biphenyls (PCBs)-Containing Items

No potential PCB-containing equipment (transformers, oil-filled switches, hoists, lifts, dock levelers, hydraulic elevators, etc.) was observed on the subject property during Partner's reconnaissance.

6.2.5 Strong, Pungent, or Noxious Odors

No strong, pungent or noxious odors were evident during the site reconnaissance.

6.2.6 Pools of Liquid

No pools of liquid were observed on the subject property during the site reconnaissance.

6.2.7 Drains, Sumps, and Clarifiers

No drains, sumps, or clarifiers were observed on the subject property during the site reconnaissance.

6.2.8 Pits, Ponds, and Lagoons

No pits, ponds or lagoons were observed on the subject property.

6.2.9 Stressed Vegetation

No stressed vegetation was observed on the subject property.

6.2.10 Additional Potential Environmental Hazards

No additional environmental hazards, including landfill activities or radiological hazards, were observed.

6.3 Non-Scope ASTM Considerations

6.3.1 Asbestos-Containing Materials (ACMs)

Asbestos is the name given to a number of naturally occurring, fibrous silicate minerals mined for their useful properties such as thermal insulation, chemical and thermal stability, and high tensile strength. The Occupational Safety and Health Administration (OSHA) regulation 29 CFR 1926.1101 requires certain construction materials to be presumed to contain asbestos, for purposes of this regulation. All thermal system insulation (TSI), surfacing material, and asphalt/vinyl flooring that are present in a building that have not been appropriately tested are "presumed asbestos-containing material" (PACM).

Based on the lack of onsite structures, ACMs do not represent an environmental concern.

6.3.2 Lead-Based Paint (LBP)

Lead is a highly toxic metal that affects virtually every system of the body. LBP is defined as any paint, varnish, stain, or other applied coating that has 1 mg/cm² (or 5,000 ug/g or 0.5% by weight) or more of lead. Congress passed the Residential Lead-Based Paint Hazard Reduction Act of 1992, also known as "Title X", to protect families from exposure to lead from paint, dust, and soil. Under Section 1017 of Title X, intact LBP on most walls and ceilings is not considered a "hazard," although the condition of the paint should be monitored and maintained to ensure that it does not become deteriorated. Further, Section 1018 of this law directed the Housing and Urban Development (HUD) and the US EPA to require the disclosure of known information on LBP and LBP hazards before the sale or lease of most housing built before 1978.

Based on the lack of onsite structures, LBP does not represent an environmental concern.

6.3.3 Radon

Radon is a colorless, odorless, naturally occurring, radioactive, inert, gaseous element formed by radioactive decay of radium (Ra) atoms. The US EPA has prepared a map to assist National, State, and local organizations to target their resources and to implement radon-resistant building codes. The map divides the country into three Radon Zones, according to the table below:

EPA Radon Zones

EPA Zones	Average Predicted Radon Levels	Potential
Zone 1	Exceed 4.0 pCi/L	Highest
Zone 2	Between 2.0 and 4.0 pCi/L	Moderate
Zone 3	Less than 2.0 pCi/L	Low

It is important to note that the EPA has found homes with elevated levels of radon in all three zones, and the US EPA recommends site-specific testing in order to determine radon levels at a specific location. However, the map does give a valuable indication of the propensity of radon gas accumulation in structures.

Radon sampling was not conducted as part of this assessment. Review of the US EPA Map of Radon Zones places the subject property in Zone 2. Based upon the radon zone classification, radon is unlikely to represent an environmental concern.

6.3.4 Lead in Drinking Water

According to available information, a public water system operated by the California Water Service serves the subject property vicinity. The sources of public water for the City of Lancaster purchased surface water groundwater from two wells from local aquifers. According to the 2019 Annual Water Quality Report, water supplied to the subject property is in compliance with all State and Federal regulations pertaining to drinking water standards, including lead and copper. Water sampling was not conducted to verify water quality.

6.3.5 Mold

Molds are microscopic organisms found virtually everywhere, indoors and outdoors. Mold will grow and multiply under the right conditions, needing only sufficient moisture (e.g.in the form of very high humidity,

condensation, or water from a leaking pipe, etc.) and organic material (e.g., ceiling tile, drywall, paper, or natural fiber carpet padding).

Based on the lack of onsite structures, mold was not considered within the scope of this assessment.

6.3.6 Wetlands

The subject property does not appear to be a designated wetland area based on information obtained from the United States Fish and Wildlife Service; however, a comprehensive wetlands survey would be required in order to formally determine actual wetlands on the subject property. No settling ponds, lagoons, surface impoundments, wetlands or natural catch basins were observed at the subject property during this assessment.

6.4 Adjoining Property Reconnaissance

The adjoining property reconnaissance consisted of observing the adjoining properties from the subject property premises. No items of environmental concern were identified on the adjacent properties during the site assessment, including hazardous substances, petroleum products, ASTs, USTs, evidence of releases, PCBs, strong or noxious odors, pools of liquids, sumps or clarifiers, pits or lagoons, stressed vegetation, or any other potential environmental hazards.

7.0 VAPOR ENCROACHMENT CONDITIONS

Partner conducted a limited non-intrusive vapor screening on the subject property to identify, to the extent feasible, the potential for vapor encroachment conditions (VECs) in connection with the subject property. This included consideration of chemicals of concern (COC) that may migrate as vapors into the subsurface of the subject property as a result of contaminated soil and groundwater on or near the property.

This screening utilized readily available data sources previously discussed in this Phase I ESA that includes:

- the physical setting of the subject property (Section 2.4),
- standard historical sources for the subject property, adjoining, and surrounding area (Section 3.0),
- known or potentially contaminated sites as identified from information from regulatory agencies and sites on Federal, State, tribal and local databases (Section 4.0), and
- information from the site reconnaissance (Section 6.0) of the subject property and observations of the surrounding properties.

The results of our data collection, reconnaissance, and analysis are tabulated below:

Area of Concern	Likely or Known VEC to Subject Property
Subject Property Existing Operations or Conditions	None identified that impact the subject property.
Historical Uses of the Subject Property	None identified that impact the subject property.
Adjoining Property Operations or Existing Conditions	None identified that impact the subject property.
Historical Uses of Adjoining Properties or Nearby Properties	None identified that impact the subject property.
Regulatory Review of sites identified on Federal, State, tribal and Local Environmental Databases which were located in the AMSD	None identified that impact the subject property.

Based on the findings of the limited non-intrusive vapor screening, vapor intrusion is unlikely to be an issue of concern in connection with the subject property. As such, no further assessment is recommended.

8.0 FINDINGS AND CONCLUSIONS

Findings and Opinions

Recognized Environmental Condition

A *recognized environmental condition* (REC) refers to the presence of hazardous substances or petroleum products in, on, or at the subject property due to a release to the environment; the likely presence of hazardous substances or petroleum products in, on, or at the subject property due to a release or likely release to the environment; or the presence of hazardous substances or petroleum products in, on, or at the subject property under conditions that pose a material threat of a future release to the environment. The following was identified during the course of this assessment:

- Partner did not identify any RECs during the course of this assessment.

Controlled Recognized Environmental Condition

A *controlled recognized environmental condition* (CREC) refers to a REC affecting the subject property that has been addressed to the satisfaction of the applicable regulatory authority or authorities with hazardous substances or petroleum products allowed to remain in place subject to implementation of required controls (for example, activity and use limitations or other property use limitations). The following was identified during the course of this assessment:

- Partner did not identify any CRECs during the course of this assessment.

Historical Recognized Environmental Condition

A *historical recognized environmental condition* (HREC) refers to a previous release of hazardous substances or petroleum products affecting the subject property that has been addressed to the satisfaction of the applicable regulatory authority or authorities and meeting unrestricted use criteria established by the applicable regulatory authority or authorities without subjecting the subject property to any controls (for example, activity and use limitations or other property use limitations). The following was identified during the course of this assessment:

- Partner did not identify any HRECs during the course of this assessment.

Business Environmental Risk

A *Business Environmental Risks* (BER) is a risk which can have a material environmental or environmentally driven impact on the business associated with the current or planned use of commercial real estate, not necessarily related to those environmental issues required to be investigated in this practice. The following was identified during the course of this assessment:

- The subject property was historically used for agricultural purposes. There is a potential that pesticides, herbicides and fertilizers were used onsite. However, it is likely that potential concentrations of these chemicals have degraded over time, as the property has not been used for agricultural purposes for over 30 years. Based on the length of time that has passed since agricultural use, this former use of the property is not expected to represent a significant environmental concern.

Significant Data Gaps

No significant data gaps affecting the ability of the Environmental Professional to identify a REC were encountered during this assessment.

Conclusions and Recommendations

Partner has performed a Phase I Environmental Site Assessment in conformance with the scope and limitations of ASTM E1527-13 and E1527-21 of the property located at the northwest corner of 90th Street West and West Avenue J-8 (APNs 3203-034-010 & 3203-034-011) in Lancaster, Los Angeles County, California (the "subject property"). Any exceptions to, or deletions from, this practice are described in Section 1.5 of this report.

This assessment has revealed no evidence of RECs, CRECs, or HRECs in connection with the subject property. Based on the conclusions of this assessment, Partner recommends no further investigation of the subject property at this time.

9.0 SIGNATURES OF ENVIRONMENTAL PROFESSIONALS

Partner has performed a Phase I Environmental Site Assessment of the property located at the northwest corner of 90th Street West and West Avenue J-8 (APNs 3203-034-010 & 3203-034-011) in Lancaster, Los Angeles County, California in conformance with the scope and limitations of the protocol and the limitations stated earlier in this report. Exceptions to or deletions from this protocol are discussed earlier in this report.

By signing below, Partner declares that, to the best of our professional knowledge and belief, we meet the definition of *Environmental Professional* as defined in §312.10 of 40 CFR §312. Partner has the specific qualifications based on education, training, and experience to assess a *property* of the nature, history, and setting of the subject *property*. Partner has developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.

Prepared By:



Heidi Yavornicky
Environmental Professional

Reviewed By:



Laura Mohlenkamp
Senior Author

10.0 REFERENCES

Reference Documents

American Society for Testing and Materials, Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process, ASTM Designation: E1527-13 and E1527-21

Environmental Risk Information Services (ERIS), Database Report, October 2022

ERIS, City Directory Report, October 2022

ERIS, Fire Insurance Map Report, October 2022

ERIS, Historical Aerials Report, October 2022

ERIS, Topographic Maps Report, October 2022

Federal Emergency Management Agency, Federal Insurance Administration, National Flood Insurance Program, Flood Insurance Map, accessed via internet, October 2022

United States Department of Agriculture, Natural Resources Conservation Service, accessed via internet, October 2022

United States Department of Agriculture, Natural Resources Conservation Service, Web Soil Survey, accessed via the internet, October 2022

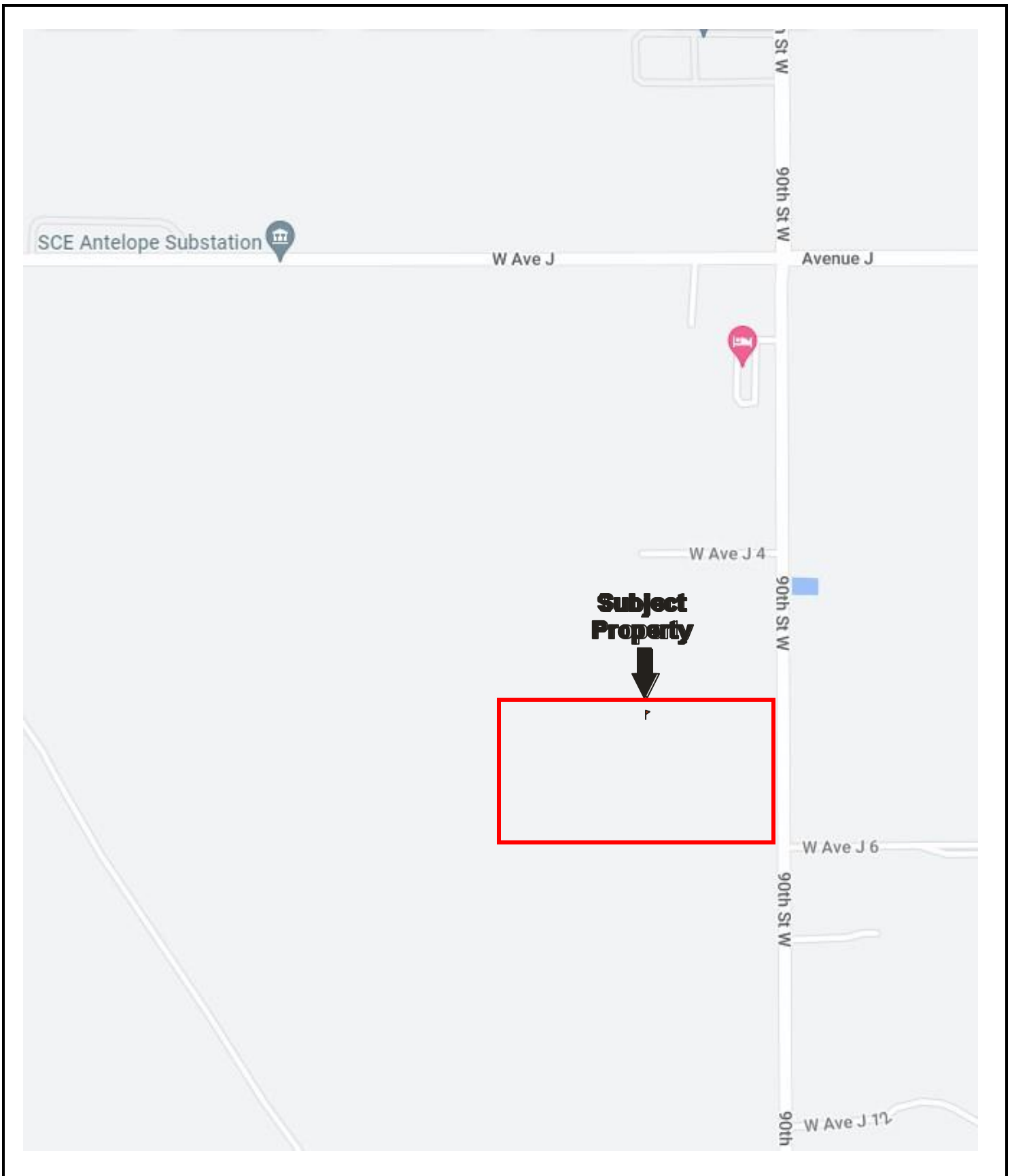
United States Environmental Protection Agency, EPA Map of Radon Zones (Document EPA-402-R-93-071), accessed via the internet, October 2022

United States Geological Survey, accessed via the Internet, October 2022

United States Geological Survey Topographic Map 2021, 7.5-minute series, accessed via internet, October 2022

FIGURES

- 1 SITE LOCATION MAP**
- 2 SITE PLAN**
- 3 TOPOGRAPHIC MAP**



Drawing Not To Scale

KEY:
Subject Property 

FIGURE 1: SITE LOCATION MAP
Project No. 22-388018.1



**GROUNDWATER
FLOW**



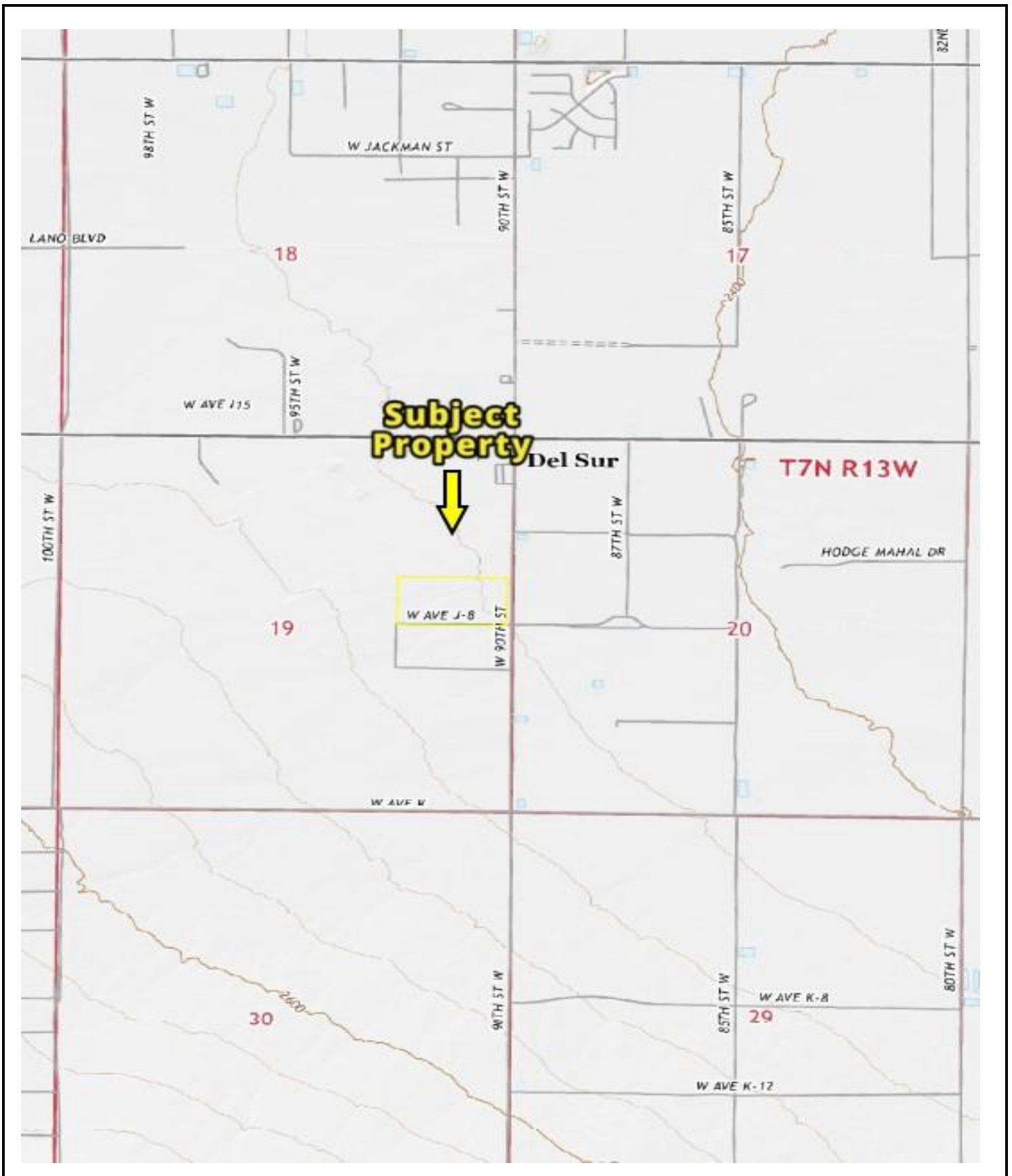
KEY:

Subject Property



FIGURE 2: SITE PLAN

Project No. 22-388018.1



USGS 7.5 Minute *Del Sur*, California Quadrangle
Created: 2021

KEY:
Subject Property 

FIGURE 3: TOPOGRAPHIC MAP
Project No. 22-388018.1

APPENDIX A: SITE PHOTOGRAPHS



1. View north from southeast corner of subject property



2. View northwest from southeast corner of subject property



3. View west from southeast corner of subject property



4. View south from north-central portion of subject property



5. View southwest from northeast corner of subject property



6. View of markers for buried fiber optic lines along eastern property boundary



7. View of west adjacent property



8. View of south adjacent property



9. View of east adjacent property

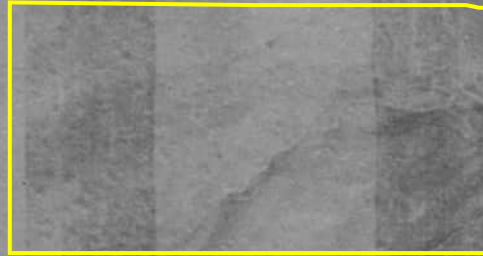


10. View of north adjacent property

APPENDIX B: HISTORICAL/REGULATORY DOCUMENTATION



**Subject
Property**



Year: 1928
Source: FAIRCHILD
Scale: 1" = 500'
Comment:

Address: APN 3203-034-010 & 3203-034-011, LANCASTER, CA
Approx Center: -118.2914621,34.68293192

Order No: 22100300833

PARTNER

one inch



**Subject
Property**



Year: 1948
Source: USGS
Scale: 1" = 500'
Comment:

Address: APN 3203-034-010 & 3203-034-011, LANCASTER, CA
Approx Center: -118.2914621,34.68293192

Order No: 22100300833

PARTNER

one inch

N

**Subject
Property**



Year: 1959
Source: ASCS
Scale: 1" = 500'
Comment:

Address: APN 3203-034-010 & 3203-034-011, LANCASTER, CA
Approx Center: -118.2914621,34.68293192

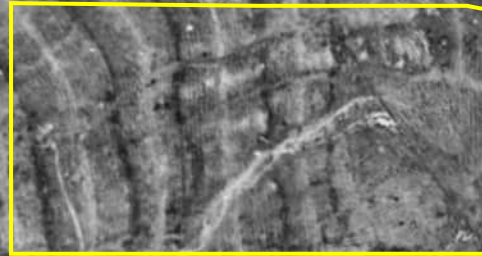
Order No: 22100300833

PARTNER

one inch



**Subject
Property**



Year: 1968
Source: TG
Scale: 1" = 500'
Comment:

Address: APN 3203-034-010 & 3203-034-011, LANCASTER, CA
Approx Center: -118.2914621,34.68293192

Order No: 22100300833

PARTNER

one inch



**Subject
Property**



Year: 1974
Source: USGS
Scale: 1" = 500'
Comment:

Address: APN 3203-034-010 & 3203-034-011, LANCASTER, CA
Approx Center: -118.2914621,34.68293192

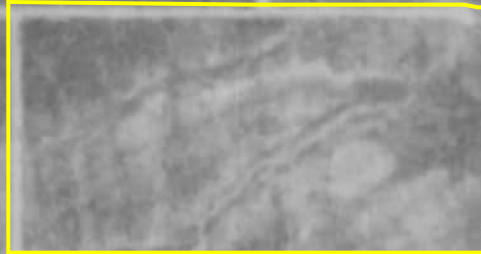
Order No: 22100300833

PARTNER

one inch



**Subject
Property**



Year: 1987
Source: USGS
Scale: 1" = 500'
Comment:

Address: APN 3203-034-010 & 3203-034-011, LANCASTER, CA
Approx Center: -118.2914621,34.68293192

Order No: 22100300833

PARTNER



**Subject
Property**



Year: 1994
Source: USGS
Scale: 1" = 500'
Comment:

Address: APN 3203-034-010 & 3203-034-011, LANCASTER, CA
Approx Center: -118.2914621,34.68293192

Order No: 22100300833

PARTNER

one inch



**Subject
Property**



Year: 2002
Source: USGS
Scale: 1" = 500'
Comment:

Address: APN 3203-034-010 & 3203-034-011, LANCASTER, CA
Approx Center: -118.2914621,34.68293192

Order No: 22100300833

PARTNER

one inch

N

**Subject
Property**



Year: 2005
Source: USDA
Scale: 1" = 500'
Comment:

Address: APN 3203-034-010 & 3203-034-011, LANCASTER, CA
Approx Center: -118.2914621,34.68293192

Order No: 22100300833

PARTNER

one inch



**Subject
Property**



Year: 2009
Source: USDA
Scale: 1" = 500'
Comment:

Address: APN 3203-034-010 & 3203-034-011, LANCASTER, CA
Approx Center: -118.2914621,34.68293192

Order No: 22100300833

PARTNER

one inch



**Subject
Property**



Year: 2010
Source: USDA
Scale: 1" = 500'
Comment:

Address: APN 3203-034-010 & 3203-034-011, LANCASTER, CA
Approx Center: -118.2914621,34.68293192

Order No: 22100300833

PARTNER

one inch



**Subject
Property**



Year: 2012
Source: USDA
Scale: 1" = 500'
Comment:

Address: APN 3203-034-010 & 3203-034-011, LANCASTER, CA
Approx Center: -118.2914621,34.68293192

Order No: 22100300833

PARTNER

one inch



**Subject
Property**



Year: 2014
Source: USDA
Scale: 1" = 500'
Comment:

Address: APN 3203-034-010 & 3203-034-011, LANCASTER, CA
Approx Center: -118.2914621,34.68293192

Order No: 22100300833

PARTNER

one inch



**Subject
Property**



Year: 2016
Source: USDA
Scale: 1" = 500'
Comment:

Address: APN 3203-034-010 & 3203-034-011, LANCASTER, CA
Approx Center: -118.2914621,34.68293192

Order No: 22100300833

PARTNER

one inch



**Subject
Property**



Year: 2018
Source: USDA
Scale: 1" = 500'
Comment:

Address: APN 3203-034-010 & 3203-034-011, LANCASTER, CA
Approx Center: -118.2914621,34.68293192

Order No: 22100300833

PARTNER

one inch



**Subject
Property**



Year: 2020
Source: USDA
Scale: 1" = 500'
Comment:

Address: APN 3203-034-010 & 3203-034-011, LANCASTER, CA
Approx Center: -118.2914621,34.68293192

Order No: 22100300833

PARTNER



FIRE INSURANCE MAPS

Project Property: Hu and Garces
APN 3203-034-010 & 3203-034-011
LANCASTER CA 93536

Project No: 22-388018.1

Requested By: Partner Engineering and Science, Inc.

Order No: 22100300833

Date Completed: October 04, 2022

Please note that no information was found for your site or adjacent properties.



CITY DIRECTORY

Project Property: *Hu and Garces*
APN 3203-034-010 & 3203-034-011
LANCASTER, CA 93536

Project No: *22-388018.1*

Requested By: *Partner Engineering and Science, Inc.*

Order No: *22100300833*

Date Completed: *October 05, 2022*

Environmental Risk Information Services

A division of Glacier Media Inc.

1.866.517.5204 | info@erisinfo.com | erisinfo.com

October 05, 2022
RE: CITY DIRECTORY RESEARCH
APN 3203-034-010 & 3203-034-011
LANCASTER, CA 93536

Thank you for contacting ERIS for an City Directory Search for the site described above. Our staff has conducted a reverse listing City Directory search to determine prior occupants of the subject site and adjacent properties. We have provided the nearest addresses(s) when adjacent addresses are not listed. If we have searched a range of addresses, all addresses in that range found in the Directory are included.

Note: Reverse Listing Directories generally are focused on more highly developed areas. Newly developed areas may be covered in the more recent years, but the older directories will tend to cover only the "central" parts of the city. To complete the search, we have either utilized the ACPL, Library of Congress, State Archives, and/or a regional library or history center as well as multiple digitized directories. These do not claim to be a complete collection of all reverse listing city directories produced.

ERIS has made every effort to provide accurate and complete information but shall not be held liable for missing, incomplete or inaccurate information. To complete this search we used the general range(s) below to search for relevant findings. If you believe there are additional addresses or streets that require searching please contact us at 866-517-5204.

Search Criteria:

43840-44505 of 90th St W
8000-10000 of W Ave J
7000-End of W Ave J 4
7000-End of W Ave J 6

Search Notes:

Search Results Summary

Date	Source	Comment
2020	DIGITAL BUSINESS DIRECTORY	
2016	DIGITAL BUSINESS DIRECTORY	
2012	DIGITAL BUSINESS DIRECTORY	
2008	DIGITAL BUSINESS DIRECTORY	
2003	DIGITAL BUSINESS DIRECTORY	
2000	HAINES	
1995	HAINES	
1991-92	HAINES	
1987	HAINES	
1981	HAINES	
1975	HAINES	

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43926 JOANNE JOHNSON...RESIDENTIAL
43926 JODY SMITH...RESIDENTIAL
44505 GORDON SKINNER...RESIDENTIAL
44505 SOMMER HAVEN RANCH...CHARITABLE INSTITUTIONS
44505 TARZANA TREATMENT...DRUG ABUSE & ADDICTION INFO & TREATMENT

8663 AMAZINGLAZE...BATHTUBS & SINKS-REPAIRING & REFINISHING
8663 AMAZINGLAZE...BATHROOM REMODELING
8663 AMAZINGLAZE...TILECERAMICCONTRACTORS & DEALERS
9070 ADIH CLEANERS...CLEANERS

NO LISTING FOUND

NO LISTING FOUND

43926 JODY SMITH...RESIDENTIAL
43926 LESLIE SMITH...RESIDENTIAL
44505 ANNELLA WHITEHEAD...RESIDENTIAL
44505 GORDON SKINNER...RESIDENTIAL
44505 SOMMER HAVEN RANCH...CHARITABLE INSTITUTIONS
44505 TERESA SKINNER...RESIDENTIAL

8158 PATRICIA STEPHEN...RESIDENTIAL
8158 ROBERT STEPHEN...RESIDENTIAL
8663 AMAZINGLAZE...BATHROOM REMODELING
8663 AMAZINGLAZE...BATHTUBS & SINKS-REPAIRING & REFINISHING
9020 DAZZLES GOURMET OVEN BAKED CRN...GOURMET SHOPS

NO LISTING FOUND

NO LISTING FOUND

43926JODY SMITH...RESIDENTIAL

43926LESLIE SMITH...RESIDENTIAL

44505SOMMER HAVEN RANCH...CHARITABLE INSTITUTIONS

8158PATRICIA STEPHEN...RESIDENTIAL

8663AMAZINGLAZE...BATHTUBS & SINKS-REPAIRING & REFINISHING

NO LISTING FOUND

NO LISTING FOUND

43926 JODY SMITH PRODUCTIONS...MUSIC & LIVE ENTERTAINMENT

43926 JODY SMITH PRODUCTIONS...ENTERTAINERS, BANDS

44505 SOMMER HAVEN RANCH...SOCIAL SERVICES NEC

44505 SUMMER HAVEN INC...RELIGIOUS ORGANIZATIONS

44505 SUMMER HAVEN INC...RELIGIOUS ORGANIZ

9020 DEL SUR GARDENS...DRINKING PLACES

NO LISTING FOUND

NO LISTING FOUND

NO LISTING FOUND

9020ALBERT SCHUSTER...RESIDENTIAL

9020BAR DEL SUR...RESIDENTIAL

9050GEMS VALLEY...RESIDENTIAL

NO LISTING FOUND

NO LISTING FOUND

RANGE NOT LISTED

0	WARRACK TINA
8158	STEPHEN PATRICIA
8361	XXXX
8663	XXXX
8666	HEMME ROY
8666	PAWLUK ROBERT
9020	DEL SUR BAR&GRILL
9020	DEL SUR GARDENS
9020	MULTI TENANT RESIDENTIAL
9050	1/2 VALLEY GEMS
9050	JAMES G
9359	MCDERMOTT HAL
10251	COX GAYON
10251	VIAR OLGA

RANGE NOT LISTED

RANGE NOT LISTED

RANGE NOT LISTED

7730	WARRACK MARK
8158	STEPHEN PATRICIA
8663	XXXX
8666	XXXX
9020	DELSUR GARDEN
9050	1/2 VALLEY GEMS
9359	XXXX
10251	COX GAYLON
10785	HANES H D

RANGE NOT LISTED

RANGE NOT LISTED

1991-92 90TH ST W

SOURCE: HAINES

44505 MARSEE MARY
44505 MRASEE JOHN
44715 BRISCO JOHNNY

1991-92 W AVE J

SOURCE: HAINES

7730 WARRACK MARK
7730 WARRACK MARY
8663 WILCOCKSON KEVIN
8666 XXXX
9020 DEL SUR GARDEN
9020 DEL SUR GARDEN TRLR
9020 DEL SUR GRDN TRLR
9020 MULTI TENANT RESIDENTIAL
9050 XXXX
9359 TERRILL MELVIN
10251 COX GAYLON

RANGE NOT LISTED

RANGE NOT LISTED

43638 MCCAIN JOHN P
43838 WALDEN ENVIRONMNT
43926 WALDEN ENVIRONMNT
44505 WAGNER JOS A
44716 BRISCO JOHNNY
44756 XXXX

7626 BELTE DAUMANTS
7709 HANNA EARL
8358 CAR KELL DOWNS
8358 KINGSTON JIM
8358 OZGA PETE
8663 TOBIN DAVID
8666 SHIOLER PHYLLIS
9020 DEL SUR GARDEN
9020 DEL SUR GARDEN TRLR
9020 DIAZ DAVID
9020 ROCKWELL AID
9020 WHITAKER BILL
9050 PETERS PAUL H
9359 MORSEFIELD HARRY E
9807 YATES W
10251 ROLF ELMER

RANGE NOT LISTED

RANGE NOT LISTED

43838 WESTSIDE YOUTH HM
43926 WESTSIDE YOUTH HM
44210 BRISCO LUTHER F
44505 WAGNER JOSEPH A
45156 TRAVIS RANCH

7626 BELTE DAUMANTS
7709 HANNA EARL
8358 VERASTEGUI TONY
8358 WOOLERY RANCH
8663 XXXX
8666 PAWLUK ROBT
9020 DELSUR GARDEN
9020 ROCKWELL ROD&GUN CL
9050 POTTER CHRIS
9359 MORSEFIELD HARRY E
9807 YATES W
10251 ROLOF TED R
10785 MORTON WM L

RANGE NOT LISTED

RANGE NOT LISTED

43638

XXXX

43838

WAYMAN JACK

43926

RUSCELLIS BOYS RNCH

44210

BRISCO LUTHER F

44505

MCBEE DEBBIE

44505

MCBEE DOROTHY L

7512

SIMON PAUL A

7626

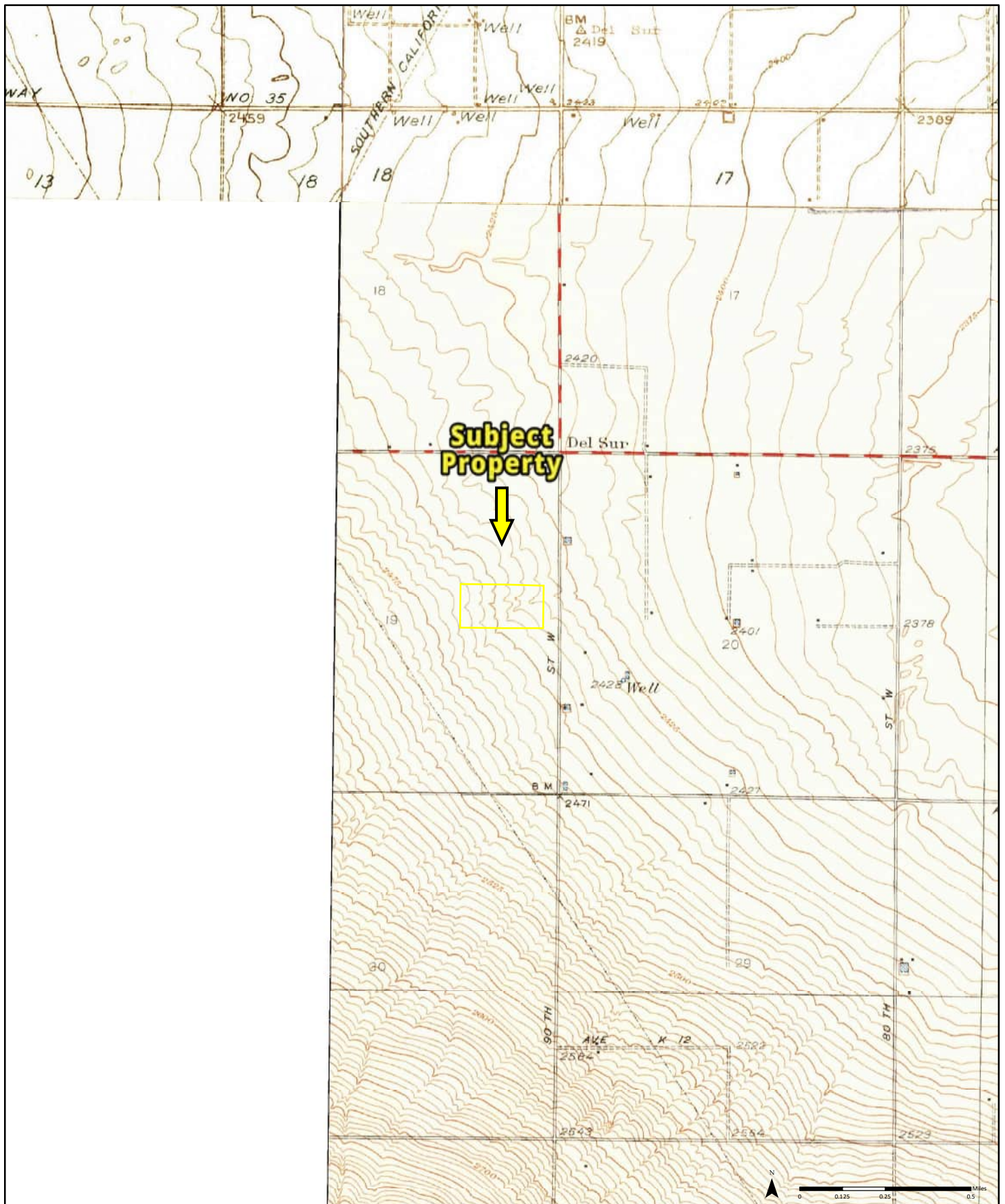
MCBRIDE EARL C SR

8358

AL FERRARIS STK FRM

RANGE NOT LISTED

RANGE NOT LISTED

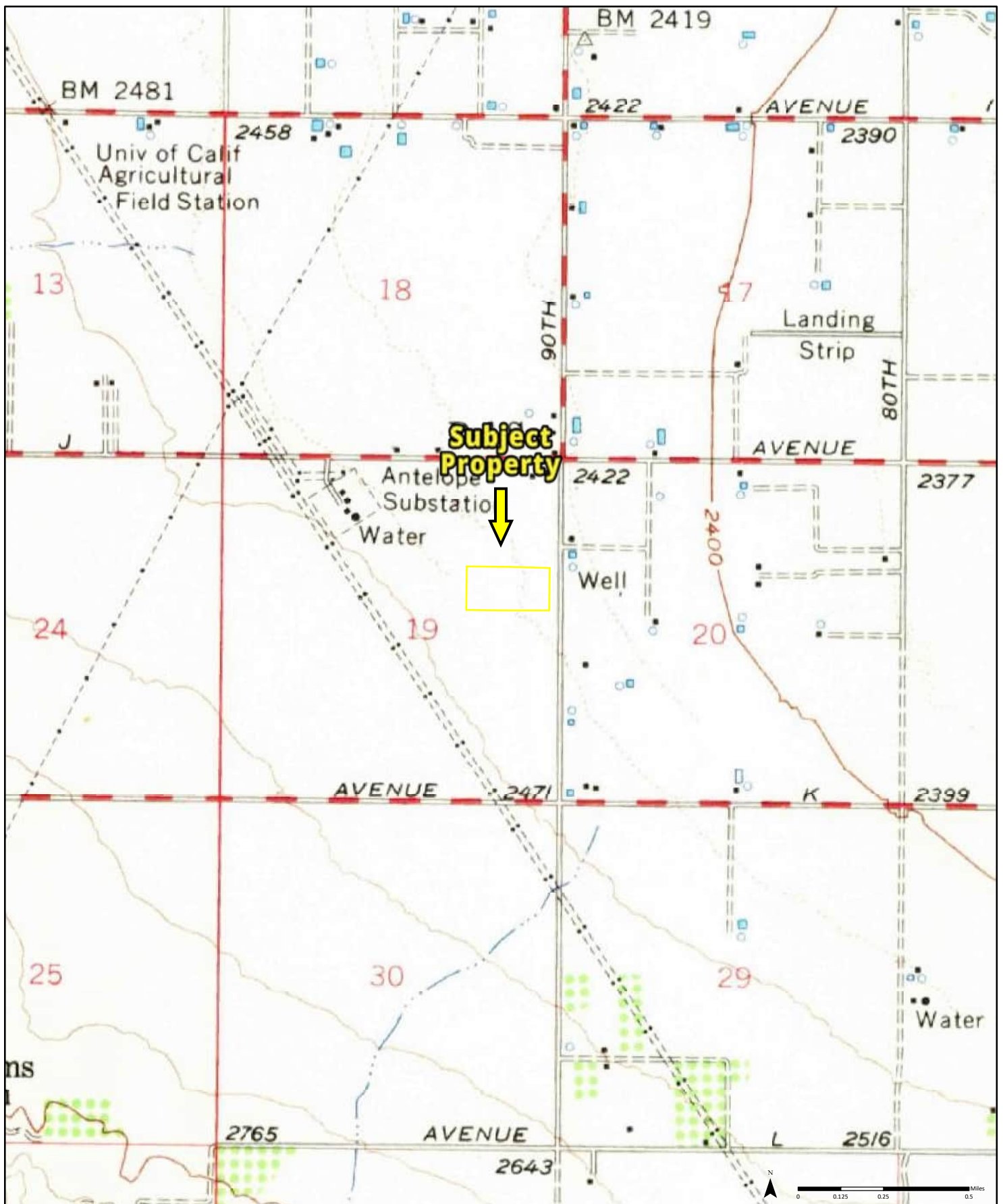


1936

Quadrangle(s): Del Sur, CA
 Esperanza School, CA
 Little Buttes, CA
 Source: USGS 7.5 Minute Topographic Map

Order No. 22100300833

PARTNER



1958

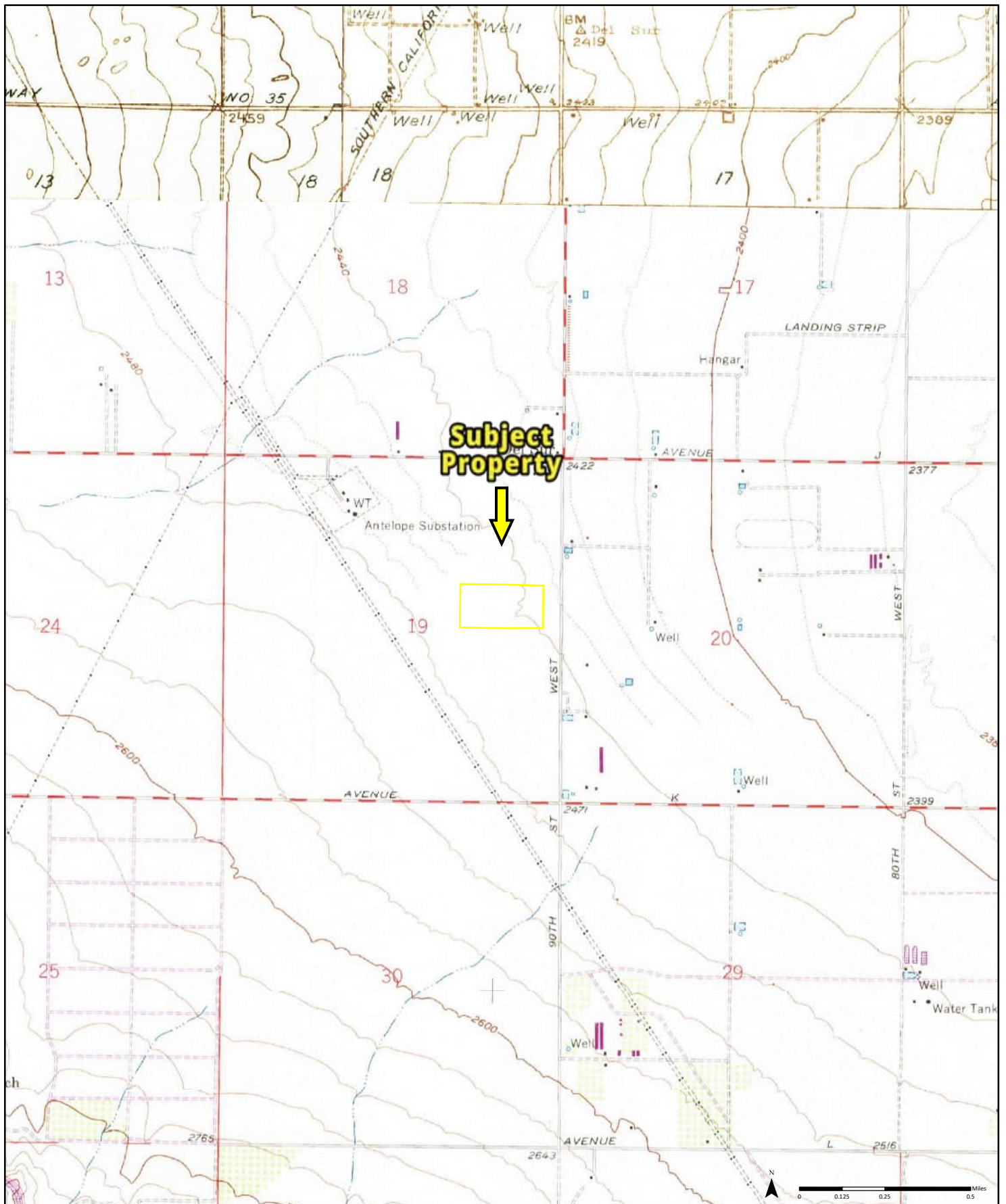
(1-1958)
Aerial Photo Year: 1956

Quadrangle(s): Bouquet Reservoir, CA(1-1958)

Order No. 22100300833

Source: USGS 15 Minute Topographic Map

PARTNER



1974

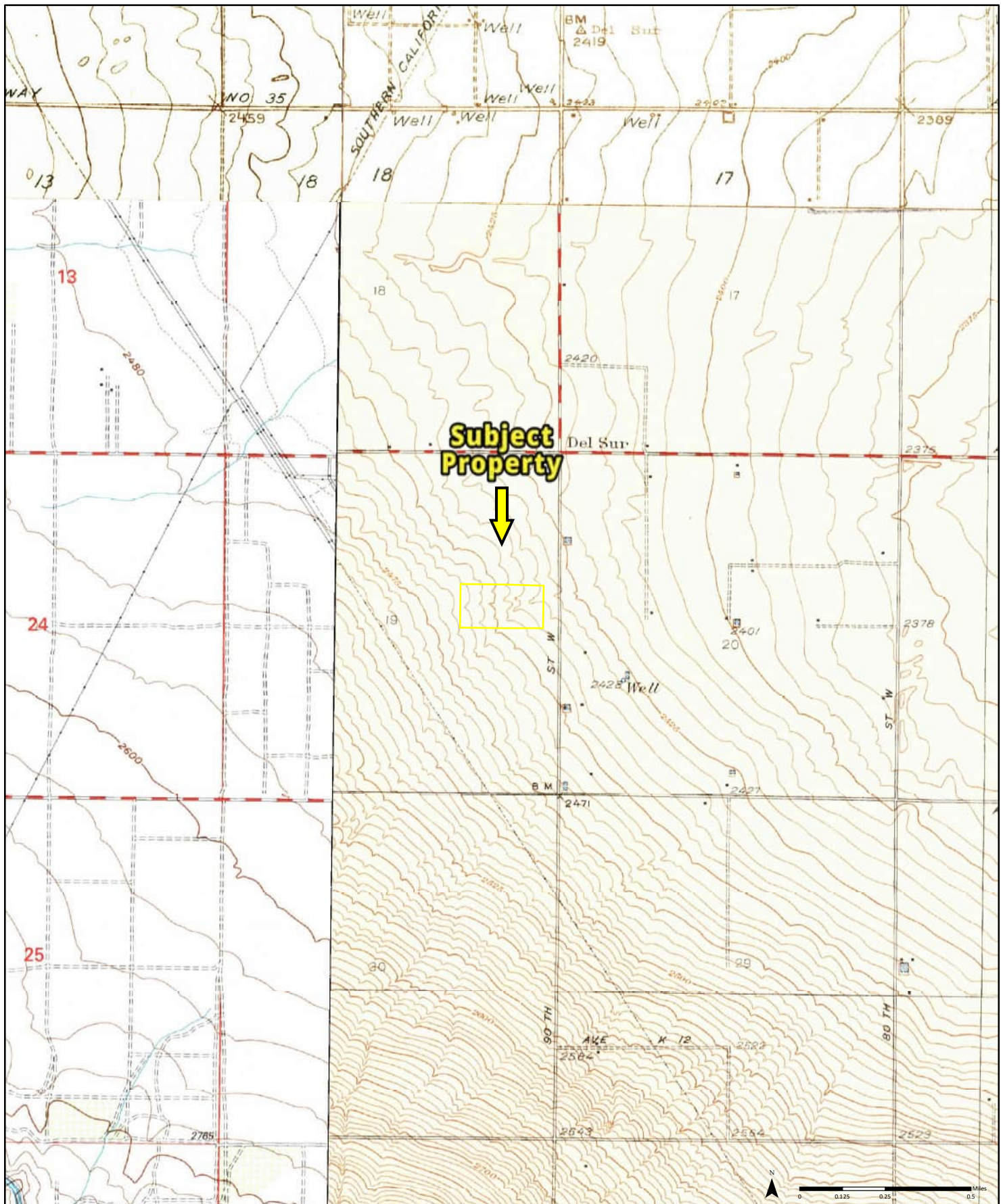
(1-1974)
Aerial Photo Year: 1974
Photo Revision Year: 1974

**Quadrangle(s): Del Sur, CA
Del Sur, CA (1-1974)
Little Buttes, CA**

Source: USGS 7.5 Minute Topographic Map

Order No. 22100300833

PARTNER



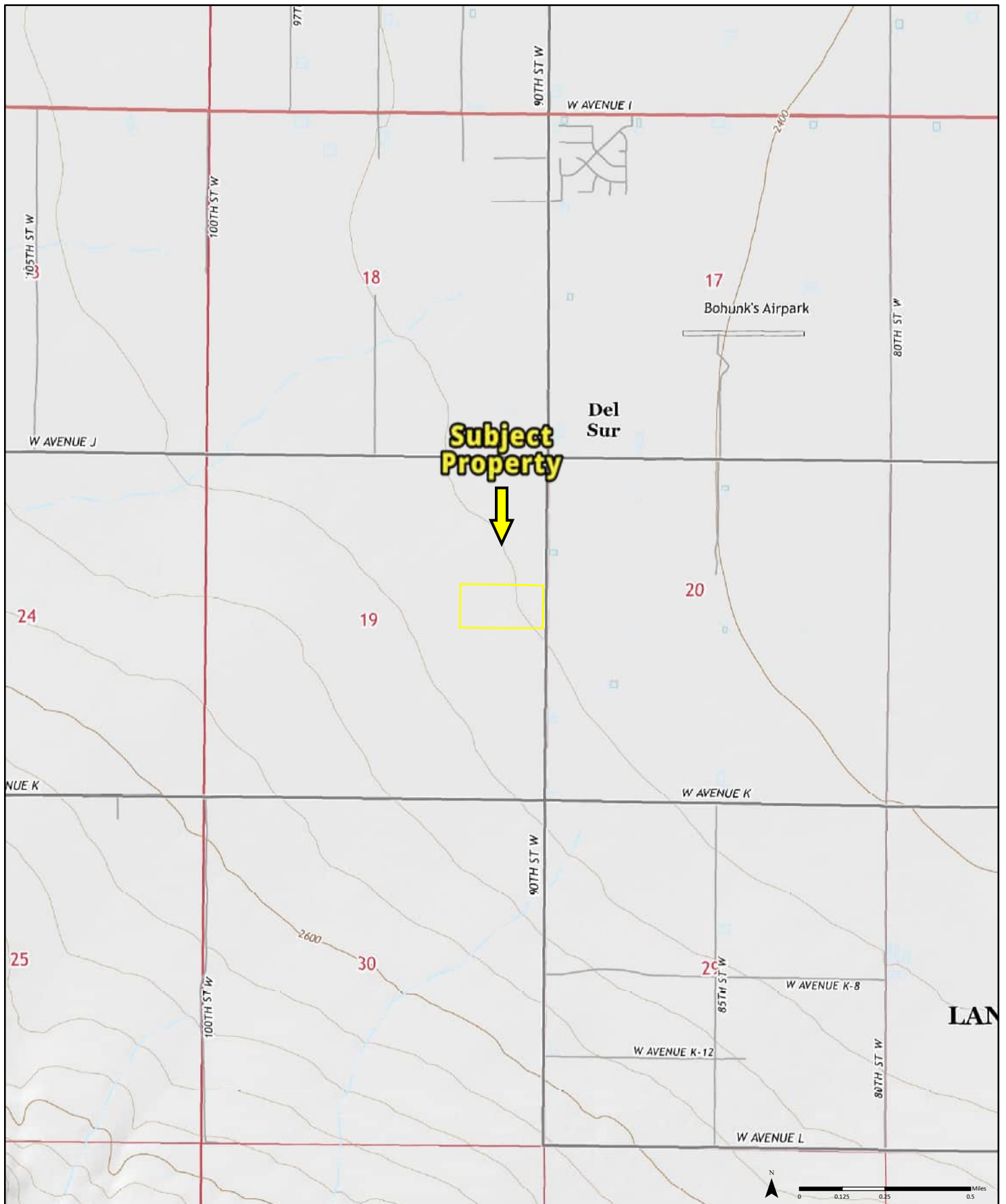
1995 (1-1995)
Aerial Photo Year: 1993

Quadrangle(s): Del Sur, CA
Del Sur, CA (1-1995)
Little Buttes, CA

Source: USGS 7.5 Minute Topographic Map

Order No. 22100300833

PARTNER



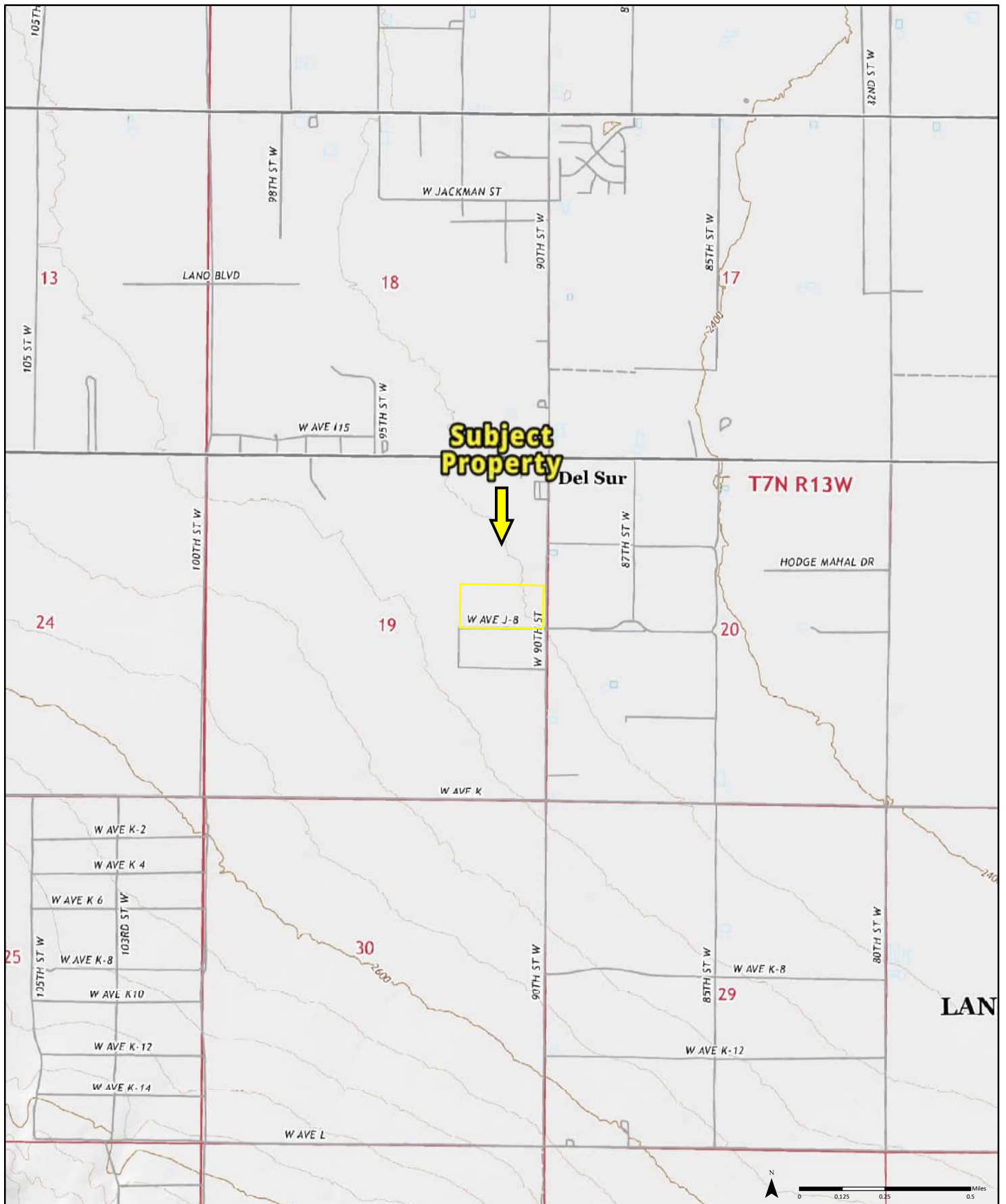
2015

Quadrangle(s): Del Sur, CA

Order No. 22100300833

Source: USGS 7.5 Minute Topographic Map

PARTNER



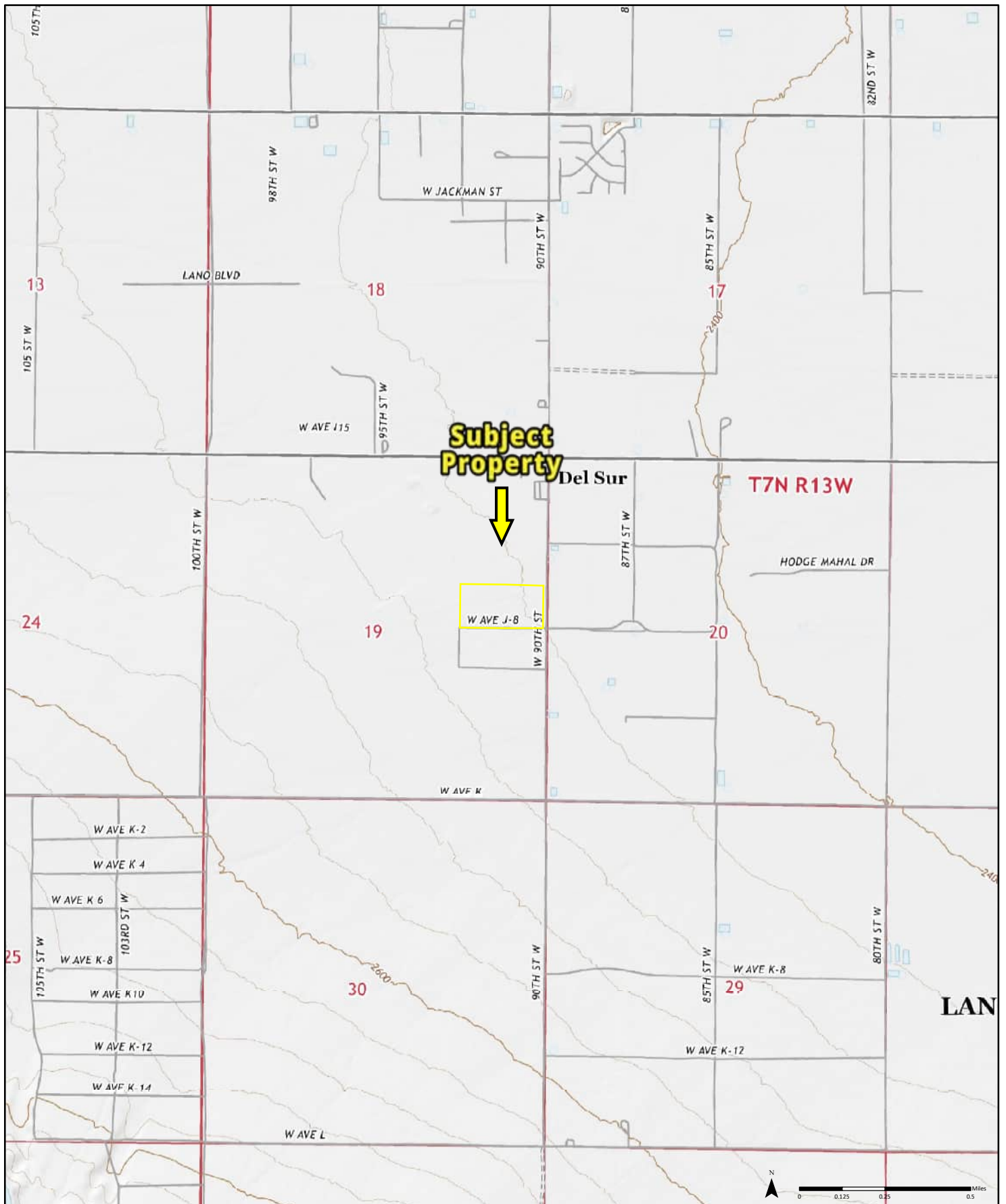
2018

Quadrangle(s): Del Sur, CA

Order No. 22100300833

Source: USGS 7.5 Minute Topographic Map

PARTNER



2021

Quadrangle(s): Del Sur, CA

Order No. 22100300833

Source: USGS 7.5 Minute Topographic Map

PARTNER

2019

Water Quality Report

ANTELOPE VALLEY DISTRICT

Lancaster System



Table of Contents

WELCOME

From the Manager

YOUR WATER SYSTEM

Your Water System
The Water Quality Lab
Cross Connection Control
DWSAPP

2019 TEST RESULTS

Fluoride
Water Hardness
Possible Contaminants
About Lead
PFOA and PFOS
Key Definitions
Water Quality Table

MORE INFORMATION

Online Resources

Welcome

Since our inception more than 90 years ago, California Water Service (Cal Water) has been committed to enhancing the quality of life for our customers and communities. One of the most important ways we do this is by providing a reliable supply of safe, high-quality water any time you turn on the tap. And, while standards continue to become more stringent, our commitment to you never wavers.

In this system in 2019, we conducted 776 tests on 129 water samples for 150 constituents. **We are pleased to confirm that we met every primary and secondary state and federal water quality standard last year.**

Fulfilling our promise to provide quality, service, and value means more than treatment and testing, however. It also means maintaining and upgrading the infrastructure needed to transport water from the source to your tap through a network of pumps, tanks, and pipes. It means having expert professionals available to help you with both routine service needs and emergencies. It also means that, although the costs to obtain, treat, test, store, and deliver the water continue to increase across the country, we do everything we can to operate

as efficiently as possible to keep your water affordable – less than a penny per gallon in most of our service areas, in fact.

I encourage you to review this annual water quality report, also called your Consumer Confidence Report, as it details any constituents detected in your water supply in 2019 and shows how your water compares to federal and state standards. It also provides information on current water quality issues and steps we are taking to protect your health and safety.

If you have any questions, we are here to assist you. You can reach us by phone, online at www.calwater.com, or in person at our local Customer Center. You can also get water service news on our web site, via our Facebook, Twitter, and Instagram pages, and in your monthly bill. And, please be sure your contact information with Cal Water is up to date by visiting ccu.calwater.com, to ensure we can reach you with important emergency and other information.

Sincerely,

Jon Yasin, Local Manager, Antelope Valley District

[Antelope Valley District 5015 West Avenue L-14, Unit 2 Quartz Hill, CA 93536 (800) 680-1160]

Your Water System

Cal Water serves approximately 1,400 customer connections in our Fremont Valley, Grand Oaks, Lancaster, Lake Hughes, and Leona Valley water systems.

The water we provide includes water pumped from local aquifers by wells located throughout our service area, and purchased surface water obtained by the Antelope Valley-East Kern Water Agency (AVEK) from the State Water Project in northern California. The Lancaster system includes two active groundwater wells, three storage tanks, and two booster pumps.

Our company-wide water quality assurance program includes vigilant monitoring throughout our systems and testing at our state-of-the-art laboratory. Additionally, we proactively maintain and upgrade our facilities to ensure a reliable, high-quality supply.

If you have any questions, suggestions, or concerns, please contact our local Customer Center, either by phone at (800) 680-1160 or through the Contact Us link at www.calwater.com.

WATER RESOURCE SUSTAINABILITY

Cal Water helps our customers conserve water by offering programs and incentives to reduce indoor and outdoor water use, develop more efficient habits, and educate the next generation about the importance of managing water resources sustainably. We also continue to invest diligently in our infrastructure to reduce the amount of water lost to pipeline leaks and are updating our assessment of the impacts of climate change on water supply and demand. As we await more information on the long-term water-use regulations from the State of California, it's important that we make water-use efficiency a way of life. Using water wisely will ensure that we have enough water in dry years and for generations to come.

Visit www.calwater.com/conservation for details.

Water Quality

THE WATER QUALITY LAB

Water professionals collect samples from throughout the water system for testing at our state-of-the-art water quality laboratory, which is certified each year through the stringent Environmental Laboratory Accreditation Program (ELAP). Scientists, chemists, and microbiologists test the water for 326 constituents with equipment so sensitive it can detect levels as low as one part per trillion. In order to maintain the ELAP certification, all of our scientists must pass blind-study proficiency tests for every water quality test performed. Water quality test results are entered into our Laboratory Information Management System (LIMS), a sophisticated software program that enables us to react quickly to changes in water quality and analyze water quality trends in order to plan effectively for future needs.

CROSS-CONNECTION CONTROL

To ensure that the high-quality water we deliver is not compromised in the distribution system, Cal Water has a robust cross-connection control program in place. Cross-connection control is critical to ensuring that activities on customers' properties do not affect the public water supply. Our cross-connection control specialists ensure that all of the existing backflow prevention assemblies are tested annually, assess all connections, and enforce and manage the installation of new commercial and residential assemblies.

Backflow can occur when certain pressure conditions exist either in our distribution system or within the customer's plumbing, so our customers are our first line of defense. A minor home improvement project — without the proper protections — can create a potentially hazardous situation, so careful adherence to plumbing codes and standards will ensure the community's water supply remains safe. Please be sure to utilize the advice or services of a qualified plumbing professional.

Many water use activities involve substances that, if allowed to enter the distribution system, would be aesthetically displeasing or could even present health concerns. Some common cross-connections are:

- Garden hoses connected to a hose bib without a simple hose-type vacuum breaker (available at a home improvement store)
- Improperly installed toilet tank fill valves that do not have the required air gap between the valve or refill tube
- Landscape irrigation systems that do not have the proper backflow prevention assembly installed on the supply line

The list of materials that could potentially contaminate the water system is vast. According to the EPA, a wide variety of substances have contaminated drinking water systems throughout the country as a result of poor cross-connection control. Examples include:

- Antifreeze from a heating system
- Lawn chemicals from a garden hose or sprinkler head
- Blue water from a toilet tank
- Carbonated water from a soda dispenser

Customers must ensure that all plumbing is in conformance with local plumbing codes. Additionally, state law requires certain types of facilities to install and maintain backflow prevention assemblies at the water meter. Cal Water's cross-connection control staff will determine whether you need to install a backflow prevention assembly based on water uses at your location.

DWSAPP

By the end of 2002, Cal Water had submitted to the Division of Drinking Water (DDW) a Drinking Water Source Assessment and Protection Program (DWSAPP) report for each water source in the water system. The DWSAPP report identifies possible sources of contamination to aid in prioritizing cleanup and pollution prevention efforts. All reports are available for viewing or copying at our Customer Center.

The water sources in your system are considered most vulnerable to:

- Schools
- High-density housing
- Recreational activities
- Wastewater
- Grazing
- Agriculture
- Urban/stormwater runoff
- Wildlife
- Known contaminant plumes
- Above- and underground storage tanks
- Historic gas stations

We encourage customers to join us in our efforts to prevent water pollution and protect our most precious natural resource.



2019 Results

FLUORIDE

State law requires Cal Water to add fluoride to drinking water if public funding is available to pay for it, and it is a practice endorsed by the American Medical Association and the American Dental Association to prevent tooth decay. In this area, low levels of fluoride occur naturally, and Cal Water doesn't add any to the water supply. Show the table in this report to your dentist to see if he or she recommends giving your children fluoride supplements.

More information about fluoridation, oral health, and related issues can be found on the DDW web site at www.waterboards.ca.gov/drinking_water/certlic/drinkingwater/Fluoridation.html. For general information on water fluoridation, visit us online at www.calwater.com.

WATER HARDNESS

Hardness is a measure of the magnesium, calcium, and carbonate minerals in the water. Water is considered **soft** if its hardness is less than 75 parts per million (ppm), **moderately hard** at 75 to 150 ppm, **hard** between 150 and 300 ppm, and **very hard** at 300 ppm or higher.

Hard water is generally not a health concern, but it can have an impact on how well soap lathers and is significant for some industrial and manufacturing processes. Hard water may also lead to mineral buildup in pipes or water heaters.

Some people with hard water opt to buy a water softener for aesthetic reasons. However, some water softeners add salt to the water, which can cause problems at wastewater treatment plants. Additionally, people on low-sodium diets should be aware that some water softeners increase the sodium content of the water.

For more information on water hardness, visit www.calwater.com/video/hardness.

Possible Contaminants

All drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that water poses a health risk.

More information about contaminants and potential health effects can be obtained by calling the United States Environmental Protection Agency (EPA) Safe Drinking Water Hotline at (800) 426-4791.

The sources of drinking water (both tap and bottled) include rivers, lakes, streams, ponds, reservoirs, springs, and wells. As water travels over the surface of the land or through the ground, it dissolves naturally occurring minerals and, in some cases, radioactive material, and can pick up substances resulting from the presence of animals or human activity.

CONTAMINANTS THAT MAY BE PRESENT IN SOURCE WATER INCLUDE:

Microbial contaminants, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.

Inorganic contaminants, such as salts and metals, which can be naturally occurring or result from urban stormwater runoff, industrial or domestic wastewater discharges, oil and gas production, mining, or farming.

Pesticides and herbicides, which may come from a variety of sources such as agriculture, urban stormwater runoff, and residential uses.

Organic chemical contaminants, including synthetic and volatile organic chemicals, which are byproducts of industrial processes and petroleum production, and can also come from gas stations, urban stormwater runoff, agricultural application, and septic systems.

Radioactive contaminants, which can be naturally occurring or the result of oil and gas production and mining activities.

In order to ensure that tap water is safe to drink, the EPA and DDW prescribe regulations that limit the amount of certain contaminants in water provided by public water systems. FDA regulations establish limits for contaminants in bottled water, which must provide the same protection for public health.

Some people may be more vulnerable to contaminants in drinking water than the general population. Immunocompromised people, such as those with cancer undergoing chemotherapy, those who have undergone organ transplants, and those with HIV/AIDS or other immune system disorders; some elderly people; and infants can be particularly at risk from infections. These people should seek advice from their health care providers about drinking water. EPA and Centers for Disease Control and Prevention (CDC) guidelines on appropriate means to lessen the risk of infection by cryptosporidium and other microbial contaminants are available from the Safe Drinking Water Hotline.

About Lead

As the issue of lead in water continues to be top of mind for many Americans, Cal Water wants to assure you about the quality of your water. We are compliant with health and safety codes mandating use of lead-free materials in water system replacements, repairs, and new installations. We have no known lead service lines in our systems. We test and treat (if necessary) water sources to ensure that the water delivered to customer meters meets all water quality standards and is not corrosive toward plumbing materials.

The water we deliver to your home meets lead standards. However, if present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Lead in drinking water is primarily from materials and components associated with service lines and home plumbing (for example, lead solder used to join copper plumbing, and brass and other lead-containing fixtures).

Cal Water is responsible for providing high-quality drinking water to our customers' meters, but cannot control the variety of materials used in plumbing components. When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap for 30 seconds to 2 minutes before using water for drinking or cooking.

If you are concerned about lead in your water, you may wish to have your water tested by a certified lab. More information about lead in drinking water can be found on the Safe Drinking Water Hotline or at www.epa.gov/safewater/lead.

In your system, results from our lead monitoring program, conducted in accordance with the Lead and Copper Rule, were below the action level for the presence of lead.

Testing for Lead in Schools

The State of California required that all public schools built before 2010 test for lead in their drinking water by July 1, 2019. We are committed to supporting our school districts' efforts to protect students and ensure that the drinking water at their school sites are below lead limits.

We worked with all school districts in our service area that serve kindergarten through 12th grade to develop sampling plans, test samples, and conduct follow-up monitoring, if needed, for corrective actions. We have published the total number of schools requesting testing from last year in this year's Water Quality report.

For more information, please see our [Testing for Lead in Schools](#) web page. For specific information regarding local school data, see the [state web portal](#).

Lead and Copper Rule

The lead and copper rule requires us to test water inside a representative number of homes that have plumbing most likely to contain lead and/or lead solder to determine the presence of lead and copper or any action level exceedance (AL). An action level is the concentration

of a contaminant which, when exceeded, triggers corrective actions before it becomes a health concern. If action levels are exceeded, either at a customer's home or system-wide, we work with the customer to investigate the issue and/or implement corrosion control treatment to reduce lead levels.

Lead Service Line Inventory (LSLI)

Protecting our customers' health and safety is our highest priority. As part of this commitment, we have been working to identify and replace any old customer water service lines and fittings that may contain lead. California Senate Bill (SB) 1398 requires all water utilities in California to develop an inventory of all distribution service line materials, and submit a list of known service lines to the state by 2018. A list of unknown service lines that may contain lead, along with a plan for replacement, is due to the state by July 1, 2020. Known lines are replaced as soon as possible.

More information regarding LSLI and specific data for each water system can be found on [the state web site](#).

PFOA and PFOS

PFOS and PFOA are manmade compounds used prevalently in firefighting foams and to make carpets, clothing, fabrics for furniture, paper packaging for food, cookware, and other items resistant to water, grease, fire, or stains. They are also used in a number of industrial processes. They are part of a larger group of chemicals referred to as per- and poly-fluoroalkyl substances (PFAS).

In early 2020, DDW announced lower response levels for PFOA and PFOS (10 ppt for PFOA, and 40 ppt for PFOS) from the previous level of 70 ppt combined. The notification levels (5.1 ppt for PFOA, and 6.5 ppt for PFOS) were not changed.

Knowing that these are constituents of emerging concern, Cal Water had identified and tested water sources in 2019 and earlier that would be more likely to have these compounds present. With the updated response levels, we are working through our plan to conduct additional testing for these constituents in all of our water systems.

Studies indicate that long-term exposure to PFOS and PFOA over certain levels could have adverse health effects, including developmental effects to fetuses during pregnancy or infants; cancer; or liver, immunity, thyroid, and other effects. Potential health impacts related to PFAS compounds are still being studied, and research is still evolving on this issue.

Although there is no Maximum Contaminant Level (MCL) set for these substances, we have proactively monitored sources and will continue to do so. Even though it is not required by the state, we believe it is the right thing to do. When an MCL is established by DDW for these compounds, we will continue to ensure our water sources are in compliance with any set standard.

While we are doing our part to treat the water and meet the standards the public health experts have set, it's important that our population as a whole focuses on being good stewards of the environment and takes steps to prevent impacting the water supply. Additionally, Cal Water has filed a lawsuit against a group of companies that manufactured and sold firefighting foam products that released the PFOS and PFOA into the environment, to ensure the responsible parties bear the costs of treating for these chemicals, not our customers.

More information on PFOS and PFOA is available **on the DDW web site**.

Key Definitions

MAXIMUM CONTAMINANT LEVEL (MCL)

The highest level of a contaminant that is allowed in drinking water. Primary MCLs protect public health and are set as close to the PHGs (or MCLGs) as are economically and technologically feasible. Secondary MCLs (SMCLs) relate to the odor, taste, and appearance of drinking water.

IN COMPLIANCE

Does not exceed any applicable MCL, SMCL, or action level, as determined by DDW. For some compounds, compliance is determined by averaging the results for one source over a one-year period.

REGULATORY ACTION LEVEL (AL)

The concentration of a contaminant which, if exceeded, triggers treatment or other required action by the water provider.

MAXIMUM CONTAMINANT LEVEL GOAL (MCLG)

The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs are set by the EPA.

MAXIMUM RESIDUAL DISINFECTANT LEVEL (MRDL)

The highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants.

MAXIMUM RESIDUAL DISINFECTANT LEVEL GOAL (MRDLG)

The level of a drinking water disinfectant below which there is no known or expected risk to health. MRDLGs are set by the EPA and do not reflect the benefits of the use of disinfectants to control microbial contaminants.

NON-DETECT (ND)

The constituent was not detected.

NOTIFICATION LEVEL (NL) AND RESPONSE LEVEL (RL)

Health-based advisory levels for unregulated contaminants in drinking water. They are used by DDW to provide guidance to drinking water systems.

PRIMARY DRINKING WATER STANDARD (PDWS)

MCLs and MRDLs for contaminants that affect health, along with their monitoring, reporting, and water treatment requirements.

PUBLIC HEALTH GOAL (PHG)

The level of a contaminant in drinking water below which there is no known or expected risk to health. PHGs are set by the California Environmental Protection Agency's Office of Environmental Health Hazard Assessment without regard to cost or available detection and treatment technologies.

TREATMENT TECHNIQUE (TT)

A required process intended to reduce the level of a contaminant in drinking water.

Table Introduction

CAL WATER TESTS YOUR WATER FOR MORE THAN 140 REGULATED CONTAMINANTS AND DOZENS OF UNREGULATED CONTAMINANTS. THIS TABLE LISTS ONLY THOSE CONTAMINANTS THAT WERE DETECTED.

In the table, water quality test results are divided into four major sections: “Primary Drinking Water Standards,” “Secondary Drinking Water Standards,” “State-Regulated Contaminants with Notification Levels,” and “Unregulated Compounds.” Primary standards protect public health by limiting the levels of certain constituents in drinking water. Secondary standards are set for substances that don’t impact health but could affect the water’s taste, odor, or appearance. Some unregulated substances (hardness and sodium, for example) are included for your information. The State allows us to monitor for some contaminants less than once per year because the concentrations of these contaminants do not change frequently. Some of our data, though representative, are more than one year old.

SUBSTANCE SOURCES

DI	Byproduct of drinking water disinfection
DS	Drinking water disinfectant added for treatment
EN	Naturally present in the environment
ER	Erosion of natural deposits
FE	Human and animal waste
FL	Water additive that promotes strong teeth; discharge from fertilizer and aluminum factories
FR	Runoff and leaching from fertilizer use; leaching from septic tanks and sewage
IC	Internal corrosion of household plumbing systems
IM	Discharge from industrial manufacturers
IO	Substances that form ions when in water
IW	Industrial waste
OC	Runoff from orchards; glass and electronics production waste
OD	Discharges of oil-drilling waste and from metal refineries
OM	Naturally occurring organic materials
PH	Inherent characteristic of water
RU	Runoff/leaching from natural deposits
RS	Residue from some surface water treatment processes
SO	Soil runoff
SP	Discharge from steel and pulp mills and chrome plating
SW	Seawater influence
WD	Leaching from wood preservatives

Our testing equipment is so sensitive, it can detect mineral traces as small as 1 part per trillion. That is equivalent to 1 second in nearly 32,000 years.

2019 Water Quality

Primary Drinking Water Standards

Microbiological	Year Tested	Unit	MCL	PHG (MCLG)	In Compliance	Distribution System-Wide				Source
						Highest Monthly				
Total coliform (systems with <40 samples/month) (Total Coliform Rule)	2019	Positive samples	1	(0)	Yes	0				EN
Fecal coliform and E. coli	2019	Positive samples	1*	(0)	Yes	0				FE
Inorganic	Year Tested	Unit	MCL	PHG (MCLG)	In Compliance	Groundwater		Purchased Water (AVEK Quartz Hill Plant)		Source
						Range	Average	Range	Average	
Arsenic	2017–2019	ppb	10	0.004 (0)	Yes	2.3–3.4	2.9	n/a	ND	ER, OC
Barium	2017–2019	ppm	1	2 (2)	Yes	ND	ND	n/a	0.028	ER, OD
Chromium (total)	2017–2019	ppb	50	(100)	Yes	ND–10	ND	n/a	ND	ER, SP
Fluoride	2017–2019	ppm	2	1 (4.0)	Yes	0.34–0.47	0.41	n/a	0.07	ER, FL
Nitrate as N	2019	ppm	10	10 (10)	Yes	1.1–1.6	1.4	n/a	0.24	ER, FR
Lead and Copper	Year Tested	Unit	AL	PHG (MCLG)	In Compliance	Distribution System-Wide				Source
						90 th Percentile		Samples > AL		
Copper	2017	ppm	1.3	0.3	Yes	0.15		0 of 10		IC, ER, WD
Lead	2017	ppb	15	0.2	Yes	ND		0 of 10		IC, IM, ER
Schools that requested lead sampling in 2019: 0										
Disinfection Byproducts	Year Tested	Unit	MCL	PHG (MCLG)	In Compliance	Distribution System-Wide				Source
						Range		Highest Annual Average		
Total haloacetic acids (THAA)	2019	ppb	60	n/a	Yes	ND		ND		DI
Total trihalomethanes (TTHM)	2019	ppb	80	n/a	Yes	ND–2.8		1.6		DI

* The MCL for fecal coliform and E. coli is exceeded when a routine sample and a repeat sample are total coliform positive, and one of these is also E. coli positive.

2019 Water Quality

(Continued)

Disinfectants	Year Tested	Unit	MRDL	MRDLG	In Compliance	Distribution System-Wide		Source
						Range	Average	
Chlorine	2019	ppm	4	4	Yes	0.50–1.4	1.1	DS

Secondary Drinking Water Standards

Contaminants	Year Tested	Unit	SMCL	PHG (MCLG)	In Compliance	Groundwater		Purchased Water		Source
						Range	Average	Range	Average	
Aluminum	2017–2019	ppb	200	600	Yes	ND	ND	ND–21	1.75	ER, RS
Chloride	2017–2019	ppm	500	n/a	Yes	33–56	45	n/a	81	RU, SW
Color	2017–2019	UNITS	15	n/a	Yes	ND–2.0	ND	ND	ND	OM
Specific conductance	2017–2019	US	1600	n/a	Yes	440–610	525	490–500	500	SW, IO
Copper	2017–2019	ppm	1	0.3	Yes	ND	ND	n/a	0.002	IC, ER, WD
Odor	2017–2019	T.O.N.	3	n/a	Yes	ND–1.0	ND	ND	ND	OM
Sulfate	2017–2019	ppm	500	n/a	Yes	39–69	54	n/a	53	RU, IW
Total dissolved solids	2017–2019	ppm	1000	n/a	Yes	240–360	300	n/a	n/a	RU
Turbidity	2017–2019	NTU	5	n/a	Yes	ND–0.18	0.12	0.02–0.14	0.04	SO
Zinc	2017–2019	ppm	5	n/a	Yes	ND	ND	n/a	0.580	RU, IW

State-Regulated Contaminants with Notification Levels

Contaminants	Year Tested	Unit	NL	PHG (MCLG)	In Compliance	Groundwater		Purchased Water		Source
						Range	Average	Range	Average	
Hexavalent chromium*	2019	ppb	n/a	0.02	Yes	7.7–10	8.9	n/a	n/a	UR

* The previous MCL of 0.010 mg/L (10 ppb) for hexavalent chromium was withdrawn on September 11, 2017, and there is currently no MCL in effect.

2019 Water Quality

(Continued)

Unregulated Compounds

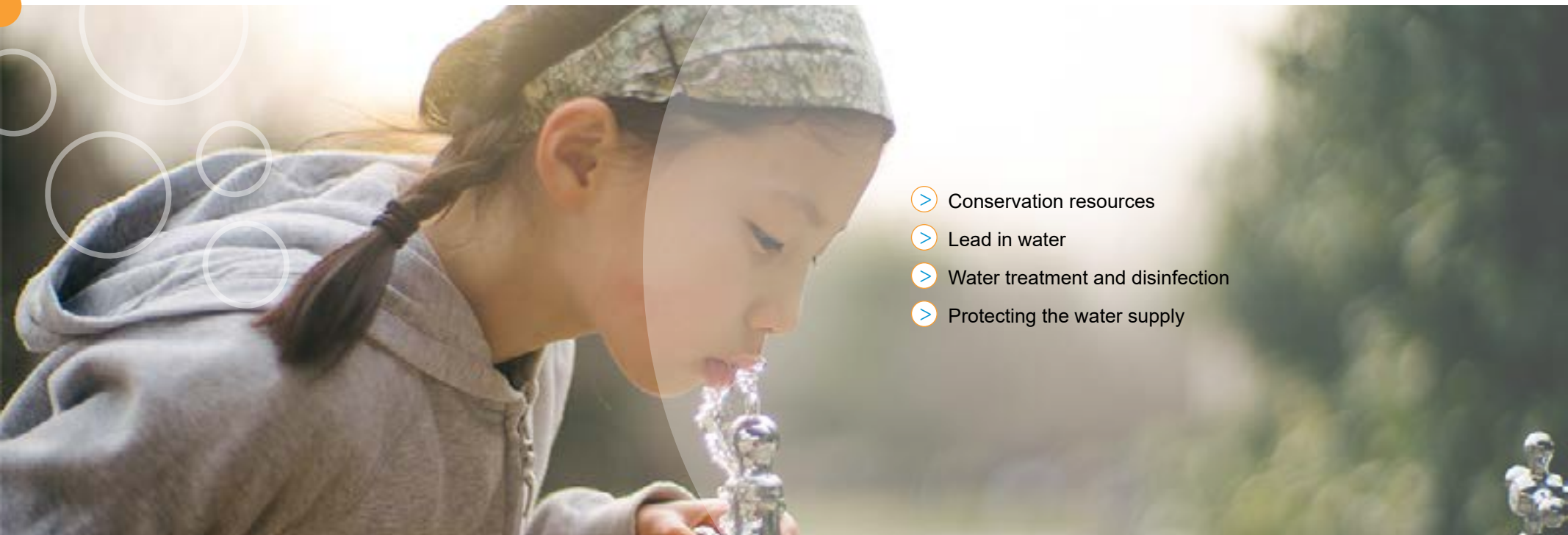
Contaminants	Year Tested	Unit	MCL	PHG (MCLG)	In Compliance	Groundwater		Purchased Water		Source
						Range	Average	Range	Average	
Alkalinity (total)	2017–2019	ppm	n/a	n/a	Yes	120–130	125	n/a	70	UR
Calcium	2017–2019	ppm	n/a	n/a	Yes	17–34	26	n/a	21	UR
Hardness (total)	2017–2019	ppm	n/a	n/a	Yes	59–120	90	n/a	100	UR
Magnesium	2017–2019	ppm	n/a	n/a	Yes	4.0–8.3	6.2	n/a	13	UR
Sodium	2017–2019	ppm	n/a	n/a	Yes	76–80	78	n/a	n/a	UR
pH	2019	Units	n/a	n/a	Yes	6.60–8.50	7.33	n/a	n/a	pH

Thank you.

Thanks for taking the time to learn more about your water quality! Even more information awaits you at www.calwater.com.

Visit our web site to get information about your account, water-use history, water rates, and water system.

You will also find water-saving tips and news about water conservation programs and rebates available in your area.

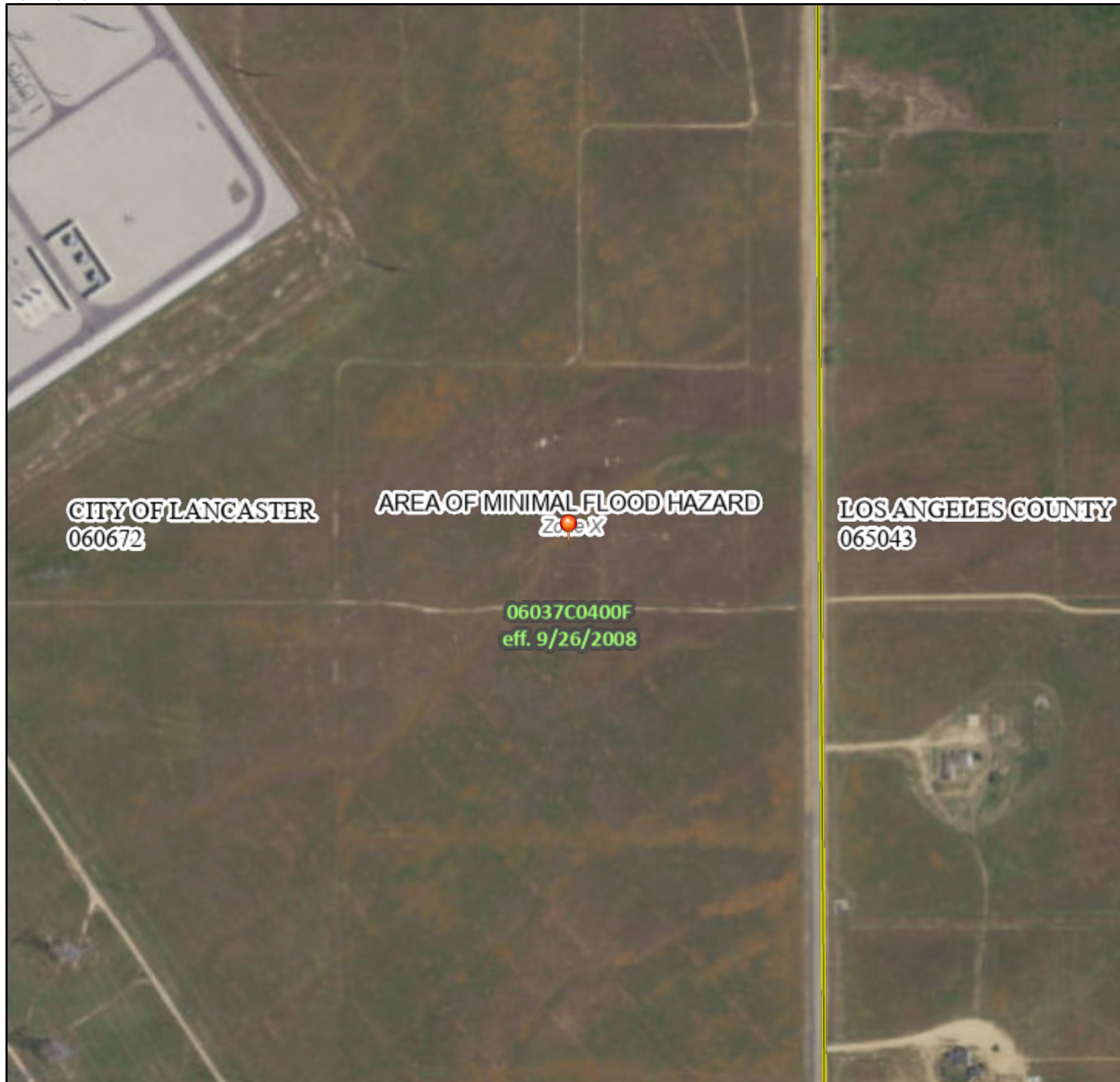


- > Conservation resources
- > Lead in water
- > Water treatment and disinfection
- > Protecting the water supply

National Flood Hazard Layer FIRMMette



118°17'48"W 34°41'12"N



0 250 500 1,000 1,500 2,000 Feet 1:6,000

Basemap: USGS National Map: Orthoimagery: Data refreshed October, 2020

Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) Zone A, V, A99
		With BFE or Depth Zone AE, AO, AH, VE, AR
		Regulatory Floodway
OTHER AREAS OF FLOOD HAZARD		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
		Future Conditions 1% Annual Chance Flood Hazard Zone X
		Area with Reduced Flood Risk due to Levee. See Notes. Zone X
		Area with Flood Risk due to Levee Zone D
OTHER AREAS		NO SCREEN Area of Minimal Flood Hazard Zone X
		Effective LOMRs
		Area of Undetermined Flood Hazard Zone D
GENERAL STRUCTURES		Channel, Culvert, or Storm Sewer
		Levee, Dike, or Floodwall
OTHER FEATURES		20.2 Cross Sections with 1% Annual Chance
		17.5 Water Surface Elevation
		Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
		Coastal Transect Baseline
OTHER FEATURES		Profile Baseline
		Hydrographic Feature
MAP PANELS		Digital Data Available
		No Digital Data Available
		Unmapped



The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on **10/12/2022 at 3:11 PM** and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.



BASEMAPS >

MAP LAYERS >

- ☒ Wetlands 1 ?
- ☒ Riparian 1 ?
- ☐ Riparian Mapping Areas 1 ?
- ☒ Data Source 1 ?
 - ☐ Source Type
 - ☐ Image Scale
 - ☐ Image Year
- ☐ Areas of Interest ?
- ☐ FWS Managed Lands 1 ?
- ☐ Historic Wetland Data 1 ?

+
-
🕒
🏠

Measure

LEGEND



1:4,514
34.683 | -118.284



United States
Department of
Agriculture

NRCS

Natural
Resources
Conservation
Service

A product of the National
Cooperative Soil Survey,
a joint effort of the United
States Department of
Agriculture and other
Federal agencies, State
agencies including the
Agricultural Experiment
Stations, and local
participants

Custom Soil Resource Report for **Antelope Valley Area, California**

lancaster



Preface

Soil surveys contain information that affects land use planning in survey areas. They highlight soil limitations that affect various land uses and provide information about the properties of the soils in the survey areas. Soil surveys are designed for many different users, including farmers, ranchers, foresters, agronomists, urban planners, community officials, engineers, developers, builders, and home buyers. Also, conservationists, teachers, students, and specialists in recreation, waste disposal, and pollution control can use the surveys to help them understand, protect, or enhance the environment.

Various land use regulations of Federal, State, and local governments may impose special restrictions on land use or land treatment. Soil surveys identify soil properties that are used in making various land use or land treatment decisions. The information is intended to help the land users identify and reduce the effects of soil limitations on various land uses. The landowner or user is responsible for identifying and complying with existing laws and regulations.

Although soil survey information can be used for general farm, local, and wider area planning, onsite investigation is needed to supplement this information in some cases. Examples include soil quality assessments (<http://www.nrcs.usda.gov/wps/portal/nrcs/main/soils/health/>) and certain conservation and engineering applications. For more detailed information, contact your local USDA Service Center (<https://offices.sc.egov.usda.gov/locator/app?agency=nrcs>) or your NRCS State Soil Scientist (http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/contactus/?cid=nrcs142p2_053951).

Great differences in soil properties can occur within short distances. Some soils are seasonally wet or subject to flooding. Some are too unstable to be used as a foundation for buildings or roads. Clayey or wet soils are poorly suited to use as septic tank absorption fields. A high water table makes a soil poorly suited to basements or underground installations.

The National Cooperative Soil Survey is a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local agencies. The Natural Resources Conservation Service (NRCS) has leadership for the Federal part of the National Cooperative Soil Survey.

Information about soils is updated periodically. Updated information is available through the NRCS Web Soil Survey, the site for official soil survey information.

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Contents

Preface	2
How Soil Surveys Are Made	5
Soil Map	8
Soil Map.....	9
Legend.....	10
Map Unit Legend.....	11
Map Unit Descriptions.....	11
Antelope Valley Area, California.....	13
GsC—Greenfield sandy loam, 2 to 9 percent slopes.....	13
References	15

How Soil Surveys Are Made

Soil surveys are made to provide information about the soils and miscellaneous areas in a specific area. They include a description of the soils and miscellaneous areas and their location on the landscape and tables that show soil properties and limitations affecting various uses. Soil scientists observed the steepness, length, and shape of the slopes; the general pattern of drainage; the kinds of crops and native plants; and the kinds of bedrock. They observed and described many soil profiles. A soil profile is the sequence of natural layers, or horizons, in a soil. The profile extends from the surface down into the unconsolidated material in which the soil formed or from the surface down to bedrock. The unconsolidated material is devoid of roots and other living organisms and has not been changed by other biological activity.

Currently, soils are mapped according to the boundaries of major land resource areas (MLRAs). MLRAs are geographically associated land resource units that share common characteristics related to physiography, geology, climate, water resources, soils, biological resources, and land uses (USDA, 2006). Soil survey areas typically consist of parts of one or more MLRA.

The soils and miscellaneous areas in a survey area occur in an orderly pattern that is related to the geology, landforms, relief, climate, and natural vegetation of the area. Each kind of soil and miscellaneous area is associated with a particular kind of landform or with a segment of the landform. By observing the soils and miscellaneous areas in the survey area and relating their position to specific segments of the landform, a soil scientist develops a concept, or model, of how they were formed. Thus, during mapping, this model enables the soil scientist to predict with a considerable degree of accuracy the kind of soil or miscellaneous area at a specific location on the landscape.

Commonly, individual soils on the landscape merge into one another as their characteristics gradually change. To construct an accurate soil map, however, soil scientists must determine the boundaries between the soils. They can observe only a limited number of soil profiles. Nevertheless, these observations, supplemented by an understanding of the soil-vegetation-landscape relationship, are sufficient to verify predictions of the kinds of soil in an area and to determine the boundaries.

Soil scientists recorded the characteristics of the soil profiles that they studied. They noted soil color, texture, size and shape of soil aggregates, kind and amount of rock fragments, distribution of plant roots, reaction, and other features that enable them to identify soils. After describing the soils in the survey area and determining their properties, the soil scientists assigned the soils to taxonomic classes (units). Taxonomic classes are concepts. Each taxonomic class has a set of soil characteristics with precisely defined limits. The classes are used as a basis for comparison to classify soils systematically. Soil taxonomy, the system of taxonomic classification used in the United States, is based mainly on the kind and character of soil properties and the arrangement of horizons within the profile. After the soil

scientists classified and named the soils in the survey area, they compared the individual soils with similar soils in the same taxonomic class in other areas so that they could confirm data and assemble additional data based on experience and research.

The objective of soil mapping is not to delineate pure map unit components; the objective is to separate the landscape into landforms or landform segments that have similar use and management requirements. Each map unit is defined by a unique combination of soil components and/or miscellaneous areas in predictable proportions. Some components may be highly contrasting to the other components of the map unit. The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The delineation of such landforms and landform segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, onsite investigation is needed to define and locate the soils and miscellaneous areas.

Soil scientists make many field observations in the process of producing a soil map. The frequency of observation is dependent upon several factors, including scale of mapping, intensity of mapping, design of map units, complexity of the landscape, and experience of the soil scientist. Observations are made to test and refine the soil-landscape model and predictions and to verify the classification of the soils at specific locations. Once the soil-landscape model is refined, a significantly smaller number of measurements of individual soil properties are made and recorded. These measurements may include field measurements, such as those for color, depth to bedrock, and texture, and laboratory measurements, such as those for content of sand, silt, clay, salt, and other components. Properties of each soil typically vary from one point to another across the landscape.

Observations for map unit components are aggregated to develop ranges of characteristics for the components. The aggregated values are presented. Direct measurements do not exist for every property presented for every map unit component. Values for some properties are estimated from combinations of other properties.

While a soil survey is in progress, samples of some of the soils in the area generally are collected for laboratory analyses and for engineering tests. Soil scientists interpret the data from these analyses and tests as well as the field-observed characteristics and the soil properties to determine the expected behavior of the soils under different uses. Interpretations for all of the soils are field tested through observation of the soils in different uses and under different levels of management. Some interpretations are modified to fit local conditions, and some new interpretations are developed to meet local needs. Data are assembled from other sources, such as research information, production records, and field experience of specialists. For example, data on crop yields under defined levels of management are assembled from farm records and from field or plot experiments on the same kinds of soil.

Predictions about soil behavior are based not only on soil properties but also on such variables as climate and biological activity. Soil conditions are predictable over long periods of time, but they are not predictable from year to year. For example, soil scientists can predict with a fairly high degree of accuracy that a given soil will have a high water table within certain depths in most years, but they cannot predict that a high water table will always be at a specific level in the soil on a specific date.

After soil scientists located and identified the significant natural bodies of soil in the survey area, they drew the boundaries of these bodies on aerial photographs and

Custom Soil Resource Report

identified each as a specific map unit. Aerial photographs show trees, buildings, fields, roads, and rivers, all of which help in locating boundaries accurately.

Soil Map

The soil map section includes the soil map for the defined area of interest, a list of soil map units on the map and extent of each map unit, and cartographic symbols displayed on the map. Also presented are various metadata about data used to produce the map, and a description of each soil map unit.

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MAP LEGEND

Area of Interest (AOI)

 Area of Interest (AOI)

Soils


 Soil Map Unit Polygons


 Soil Map Unit Lines


 Soil Map Unit Points

Special Point Features

 Blowout

 Borrow Pit


 Clay Spot

 Closed Depression

 Gravel Pit

 Gravelly Spot

 Landfill

 Lava Flow

 Marsh or swamp

 Mine or Quarry

 Miscellaneous Water


 Perennial Water

 Rock Outcrop


 Saline Spot

 Sandy Spot

 Severely Eroded Spot


 Sinkhole


 Slide or Slip

 Sodic Spot

 Spoil Area

 Stony Spot


 Very Stony Spot

 Wet Spot

 Other

 Special Line Features

Water Features

 Streams and Canals


Transportation

 Rails


 Interstate Highways

 US Routes

 Major Roads

 Local Roads

Background

 Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:24,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Antelope Valley Area, California
Survey Area Data: Version 15, Sep 9, 2022

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Apr 14, 2022—Apr 23, 2022

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
GsC	Greenfield sandy loam, 2 to 9 percent slopes	19.5	100.0%
Totals for Area of Interest		19.5	100.0%

Map Unit Descriptions

The map units delineated on the detailed soil maps in a soil survey represent the soils or miscellaneous areas in the survey area. The map unit descriptions, along with the maps, can be used to determine the composition and properties of a unit.

A map unit delineation on a soil map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic class rarely, if ever, can be mapped without including areas of other taxonomic classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named and some minor components that belong to taxonomic classes other than those of the major soils.

Most minor soils have properties similar to those of the dominant soil or soils in the map unit, and thus they do not affect use and management. These are called noncontrasting, or similar, components. They may or may not be mentioned in a particular map unit description. Other minor components, however, have properties and behavioral characteristics divergent enough to affect use or to require different management. These are called contrasting, or dissimilar, components. They generally are in small areas and could not be mapped separately because of the scale used. Some small areas of strongly contrasting soils or miscellaneous areas are identified by a special symbol on the maps. If included in the database for a given area, the contrasting minor components are identified in the map unit descriptions along with some characteristics of each. A few areas of minor components may not have been observed, and consequently they are not mentioned in the descriptions, especially where the pattern was so complex that it was impractical to make enough observations to identify all the soils and miscellaneous areas on the landscape.

The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The objective of mapping is not to delineate pure taxonomic classes but rather to separate the landscape into landforms or landform segments that have similar use and management requirements. The delineation of such segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, however, onsite investigation is needed to define and locate the soils and miscellaneous areas.

Custom Soil Resource Report

An identifying symbol precedes the map unit name in the map unit descriptions. Each description includes general facts about the unit and gives important soil properties and qualities.

Soils that have profiles that are almost alike make up a *soil series*. Except for differences in texture of the surface layer, all the soils of a series have major horizons that are similar in composition, thickness, and arrangement.

Soils of one series can differ in texture of the surface layer, slope, stoniness, salinity, degree of erosion, and other characteristics that affect their use. On the basis of such differences, a soil series is divided into *soil phases*. Most of the areas shown on the detailed soil maps are phases of soil series. The name of a soil phase commonly indicates a feature that affects use or management. For example, Alpha silt loam, 0 to 2 percent slopes, is a phase of the Alpha series.

Some map units are made up of two or more major soils or miscellaneous areas. These map units are complexes, associations, or undifferentiated groups.

A *complex* consists of two or more soils or miscellaneous areas in such an intricate pattern or in such small areas that they cannot be shown separately on the maps. The pattern and proportion of the soils or miscellaneous areas are somewhat similar in all areas. Alpha-Beta complex, 0 to 6 percent slopes, is an example.

An *association* is made up of two or more geographically associated soils or miscellaneous areas that are shown as one unit on the maps. Because of present or anticipated uses of the map units in the survey area, it was not considered practical or necessary to map the soils or miscellaneous areas separately. The pattern and relative proportion of the soils or miscellaneous areas are somewhat similar. Alpha-Beta association, 0 to 2 percent slopes, is an example.

An *undifferentiated group* is made up of two or more soils or miscellaneous areas that could be mapped individually but are mapped as one unit because similar interpretations can be made for use and management. The pattern and proportion of the soils or miscellaneous areas in a mapped area are not uniform. An area can be made up of only one of the major soils or miscellaneous areas, or it can be made up of all of them. Alpha and Beta soils, 0 to 2 percent slopes, is an example.

Some surveys include *miscellaneous areas*. Such areas have little or no soil material and support little or no vegetation. Rock outcrop is an example.

Antelope Valley Area, California

GsC—Greenfield sandy loam, 2 to 9 percent slopes

Map Unit Setting

National map unit symbol: hcdw
Elevation: 2,600 to 4,200 feet
Mean annual precipitation: 9 to 12 inches
Mean annual air temperature: 63 degrees F
Frost-free period: 200 to 250 days
Farmland classification: Prime farmland if irrigated

Map Unit Composition

Greenfield and similar soils: 85 percent
Minor components: 15 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Greenfield

Setting

Landform: Alluvial fans, terraces
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Tread
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Alluvium derived from granite

Typical profile

H1 - 0 to 20 inches: sandy loam
H2 - 20 to 60 inches: sandy loam
H3 - 60 to 80 inches: stratified loamy sand to coarse sandy loam

Properties and qualities

Slope: 2 to 9 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: Low
Capacity of the most limiting layer to transmit water (Ksat): High (1.98 to 5.95 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Available water supply, 0 to 60 inches: Moderate (about 8.2 inches)

Interpretive groups

Land capability classification (irrigated): 2e
Land capability classification (nonirrigated): 4e
Hydrologic Soil Group: A
Ecological site: R019XD964CA - LOAMY 9-20"
Hydric soil rating: No

Minor Components

Hanford

Percent of map unit: 8 percent
Hydric soil rating: No

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Ramona

Percent of map unit: 5 percent

Hydric soil rating: No

Unnamed

Percent of map unit: 1 percent

Hydric soil rating: No

Unnamed

Percent of map unit: 1 percent

Hydric soil rating: No

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Custom Soil Resource Report

United States Department of Agriculture, Natural Resources Conservation Service. National soil survey handbook, title 430-VI. http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/scientists/?cid=nrcs142p2_054242

United States Department of Agriculture, Natural Resources Conservation Service. 2006. Land resource regions and major land resource areas of the United States, the Caribbean, and the Pacific Basin. U.S. Department of Agriculture Handbook 296. http://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/soils/?cid=nrcs142p2_053624

United States Department of Agriculture, Soil Conservation Service. 1961. Land capability classification. U.S. Department of Agriculture Handbook 210. http://www.nrcs.usda.gov/Internet/FSE_DOCUMENTS/nrcs142p2_052290.pdf



AIN: 3203-034-010 6

Situs Address:
VAC/COR AVE J8/90TH STW
LANCASTER CA 93536-0000

Use Type:
Vacant Land
Parcel Type:
Regular Fee Parcel
Tax Rate Area:
02418

Parcel Status: ACTIVE
Create Date:
Delete Date:
Tax Status: CURRENT
Year Defaulted:
Exemption: None

Building & Land Overview

Use Code: 010V
Design Type:
Quality Class:

of Units:
Beds/Baths: /
Building SqFt: 0

Year Built:
Effective Year:
Land SqFt: 361,730



Parcel Map / Map Index

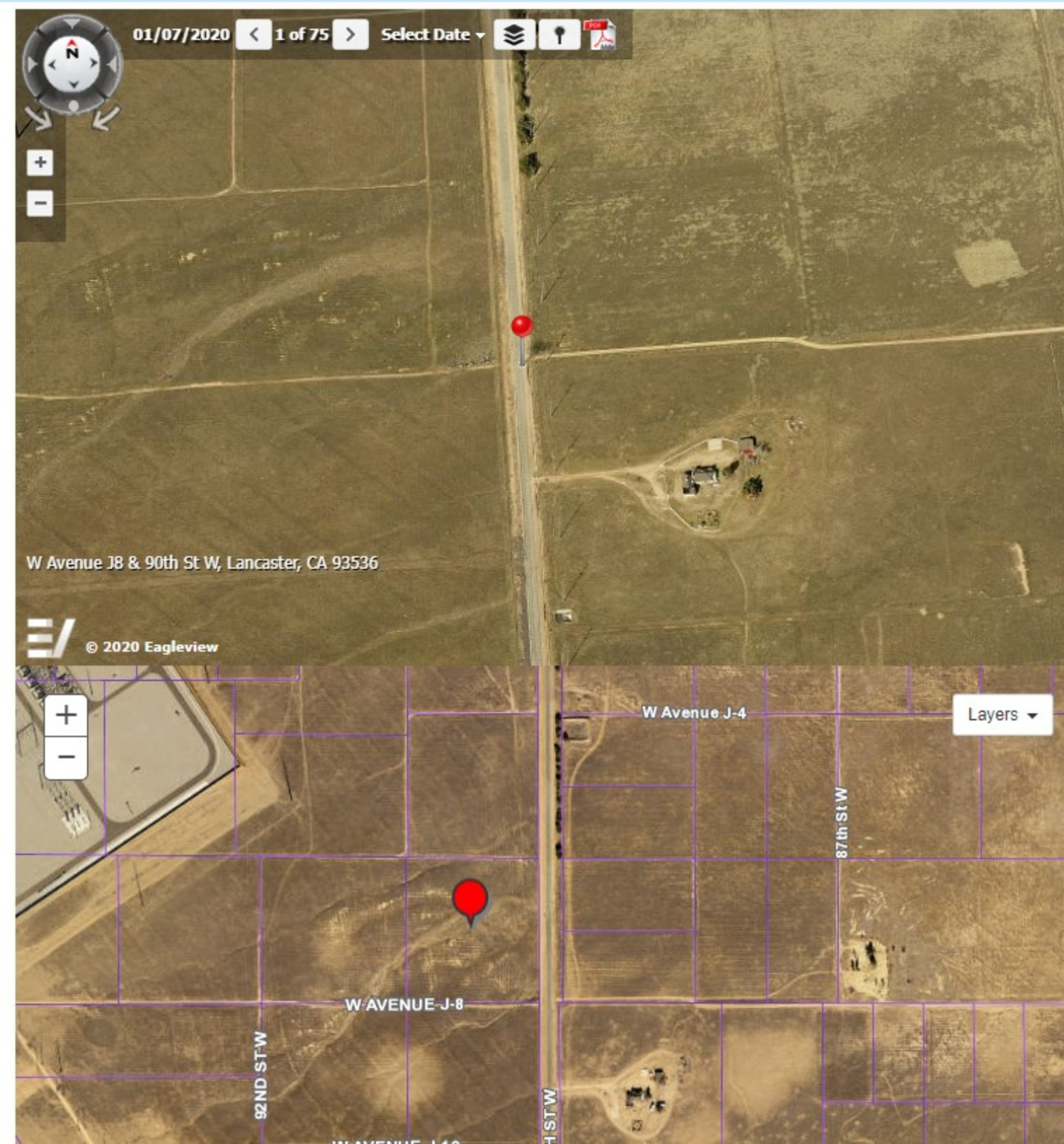
		2023 Roll Preparation		2022 Current Roll		RC	Year		2016 Base Value	
Land	\$	77,370	\$	75,853		T	2016	\$	68,000	
Improvements	\$	0	\$	0		T	2016	\$	0	
Total	\$	77,370	\$	75,853				\$	68,000	

Assessor's Responsible Division

District: Lancaster Office
Region: A1
Cluster: 01026 DEL SUR

Lancaster Office
251 E. Avenue K 6
Lancaster, CA 93535

Phone: (661) 940-6700
Toll Free: 1 (888) 807-2111
M-F 7:30 am to 5:00 pm



Summary

AIN: 3203-034-011 5

Situs Address:
VAC/COR AVE J8/92 STW
DEL SUR CA 93536-0000

Use Type:
Vacant Land

Parcel Type:
Regular Fee Parcel

Tax Rate Area:
02418

Parcel Status: ACTIVE

Create Date:

Delete Date:

Tax Status: CURRENT

Year Defaulted:

Exemption: None

Building & Land Overview

Use Code: 580V

Design Type:

Quality Class:

of Units:

Beds/Baths: /

Building SqFt: 0

Year Built:

Effective Year:

Land SqFt: 383,240



		2023 Roll Preparation		2022 Current Roll	RC	Year	1983 Base Value	
Land	\$	97,479	\$	95,568	E	1983	\$	48,000
Improvements	\$	0	\$	0		1983	\$	0
Total	\$	97,479	\$	95,568			\$	48,000

Assessor's Responsible Division

District: Lancaster Office

Region: A1

Cluster: 01026 DEL SUR

Lancaster Office 📍

251 E. Avenue K 6

Lancaster, CA 93535

Phone: (661) 940-6700

Toll Free: 1 (888) 807-2111

M-F 7:30 am to 5:00 pm

Select Date

Map Layers

Map Tools

Map Data

Please set a location or search for an address.

Vác, Hungary



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:

Street No.:

 -

Direction: 

Street Name: 

Street Type:

Unit Type: 

Unit No.: 

City:

State:

Zip:

APN:

Search

Clear



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

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:

Street No.:

 -

Direction: ?

Street Name: ?

Street Type:

Unit Type: ?

Unit No.: ?

City:

State:

Zip:

APN:

Search

Clear

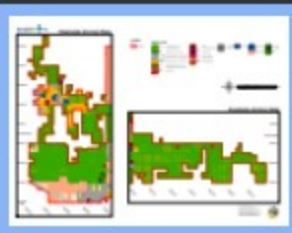


Notice:

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

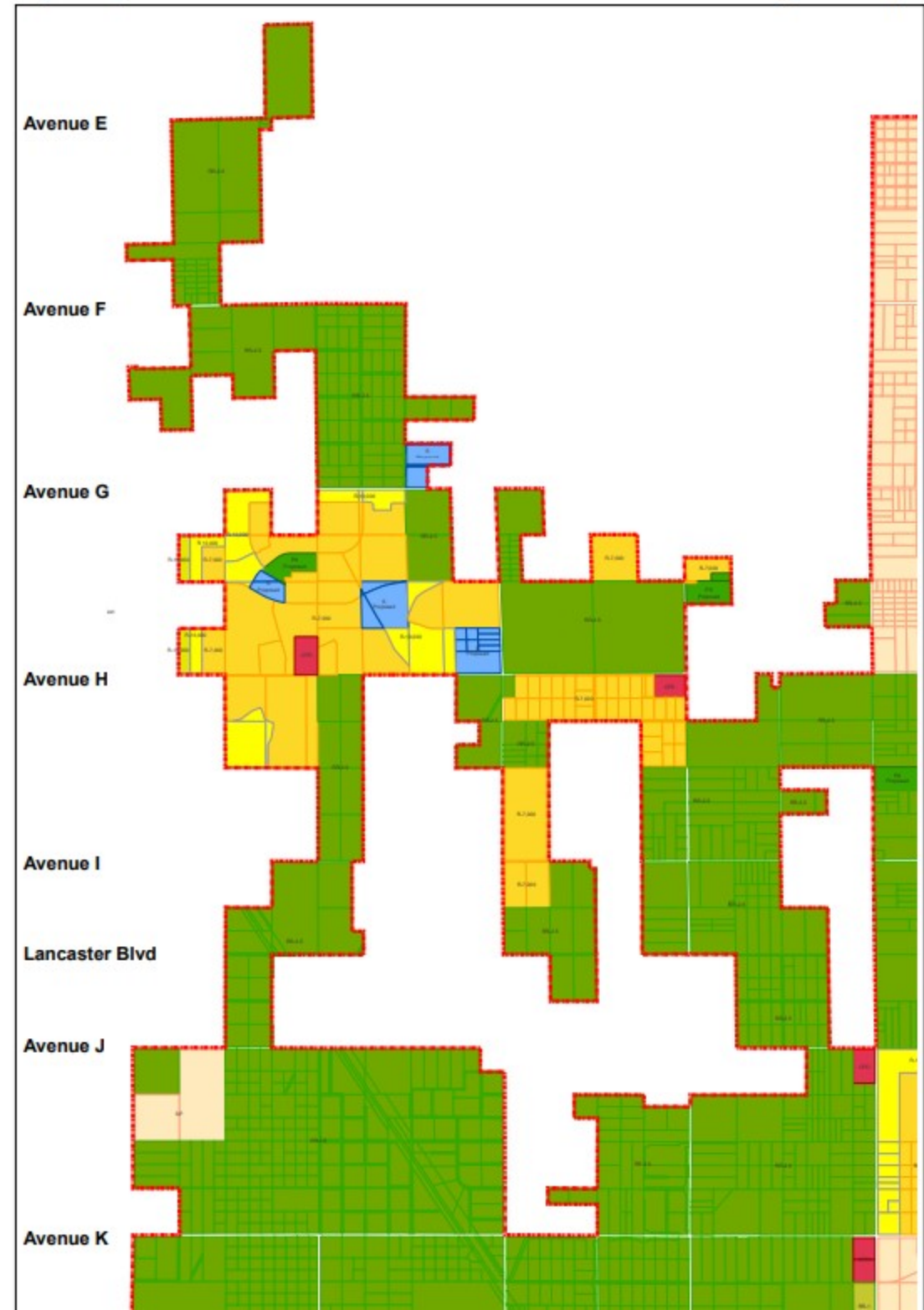


1



2

Westside Zoning Map

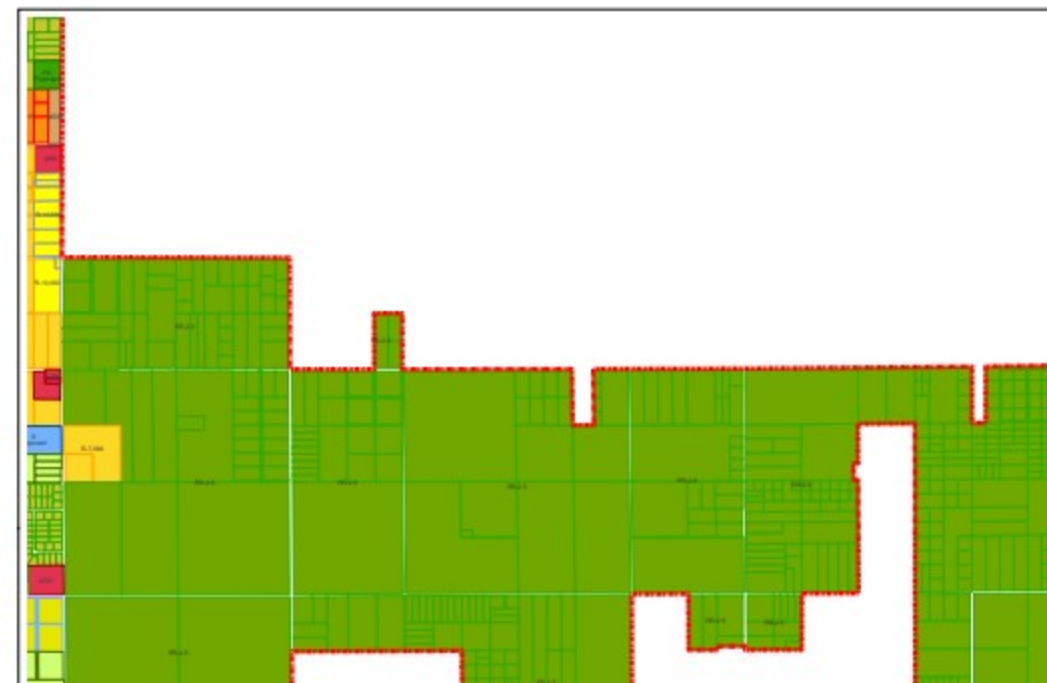


LEGEND

City Limits

ZONING CODE

RR-2.5	Rural Residential of 1 Unit/2.5 Acres	C	Commercial
RR-1	Rural Residential of 1 Unit/1 Acre	CPD	Commercial Planned Development
SRR	Semi-Rural Residential of 1-2 Unit/1 Acre	OP	Office Professional
R-15,000	Single Family Residential on 15,000 Square Foot Lots	MU-C	Mixed Use Commercial
R-10,000	Single Family Residential on 10,000 Square Foot Lots	MU-E	Mixed Use Employment
R-7000	Single Family Residential on 7,000 Square Foot Lots	MU-N	Mixed Use Neighborhood
HDR	High Density Residential of 15-30 Units/Acre		
MDR	Moderate Density Residential of 15-30 Units/Acre		
MHP	Mobile Home Park		





90th street west, lancaster  

4 sites found

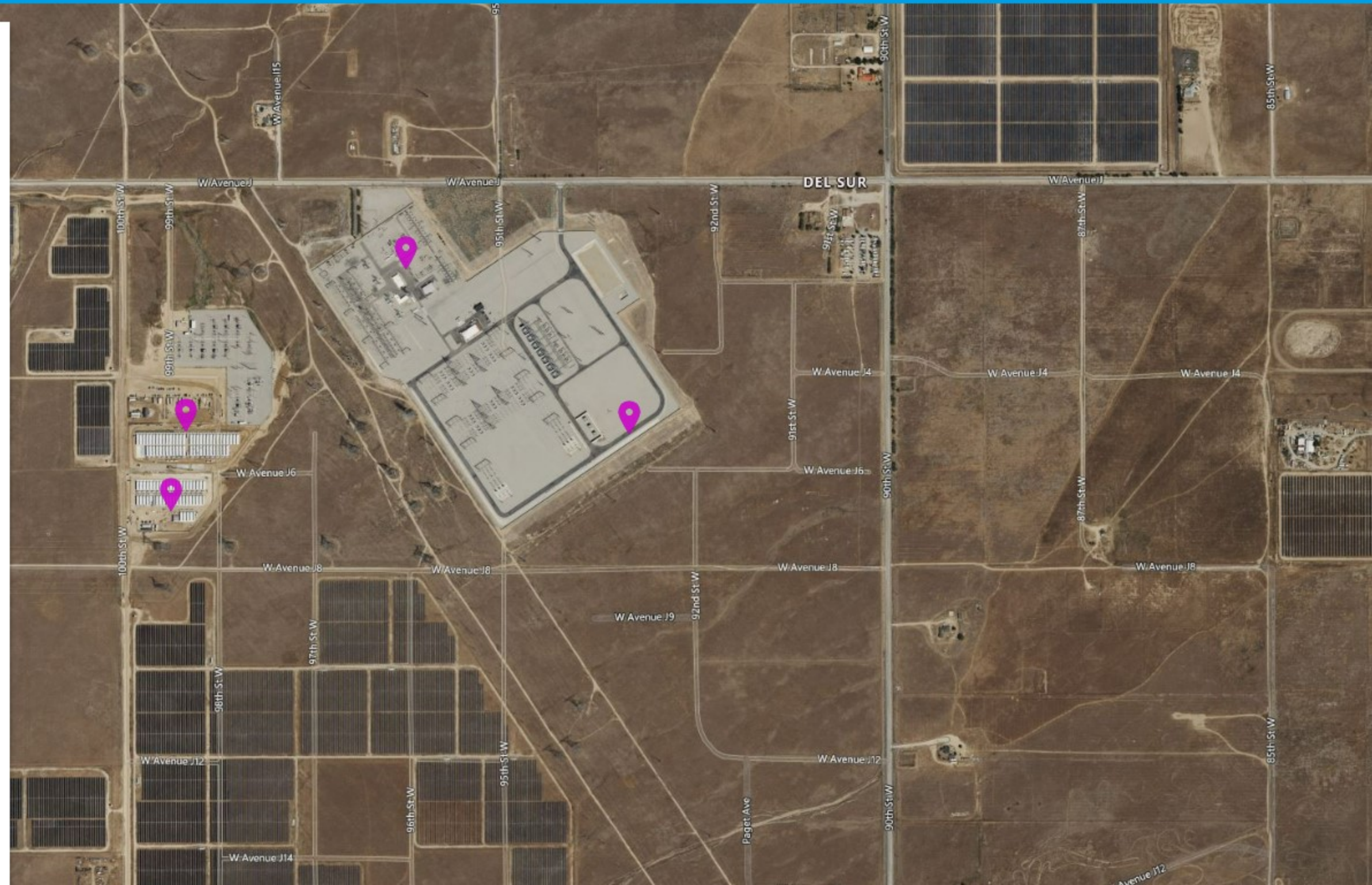
Did you mean:  90th St W, Lancaster, CA 93536 

Luna Storage and Gen Tie to Big Sky
44030 100TH STREET WEST
LANCASTER CA 93536

SCE - ANTELOPE SUBSTATION
9634 WEST AVENUE J
LANCASTER CA 93534

Lancaster Area Battery Storage
WEST AVENUE J & WEST 100TH STREET
LANCASTER CA 93536

SCE Antelope Substation
9634 W AVENUE J
LANCASTER CA 93534





Well Status and Well Type Filter

Search

Zoom to Field

Measurement

Layers



Enter place or location



Basemaps



1:9,028 34.676295 -118.297319



Powered by

WellSTAR

Sites and Facilities

Cleanup Sites

☒ Federal Superfund

☒ State Response

☒ Voluntary Cleanup

☒ School Cleanup

☒ Evaluation

☒ School Investigation

☒ Military Evaluation

☒ Tiered Permit

☒ Corrective Action

☒ Field Points

STATUS

All Statuses

Permitted Sites

☒ Operating

☒ Post-Closure

☒ Non-Operating

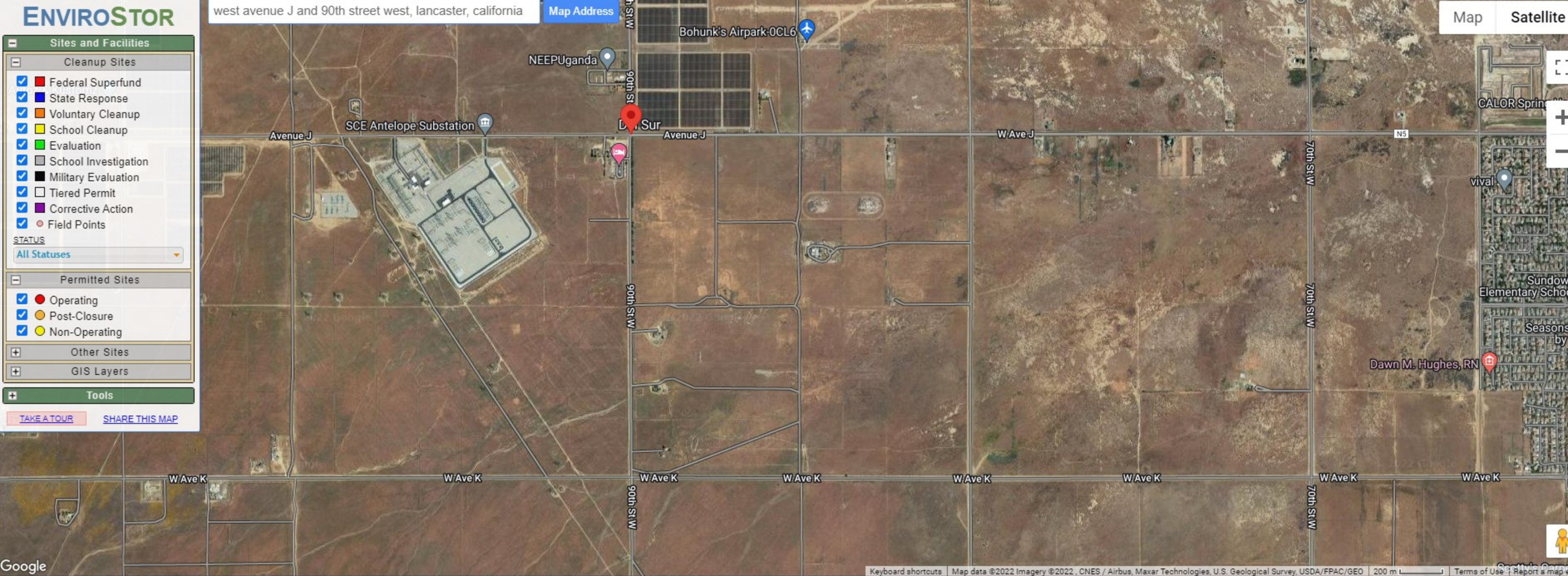
Other Sites

GIS Layers

Tools

TAKE A TOUR

SHARE THIS MAP



SITES CURRENTLY VISIBLE ON MAP					0 SITES LISTED	EXPORT THIS LIST TO EXCEL
PROJECT NAME	STATUS	PROJECT TYPE	ADDRESS	CITY		



LEGEND - CHOOSE MORE SITES

LUST Cleanup Sites - REMOVE

Cleanup Program Sites - REMOVE

Military Cleanup Sites - REMOVE

Military Privatized Sites - REMOVE

Military UST Sites - REMOVE

Signifies a Closed Site

ACTIVE MAP COVERAGES:

Military Bases - REMOVE

SITES VISIBLE ON MAP - CHOOSE FIELDS

SITE NAME	STATUS
-----------	--------

APPENDIX C: REGULATORY DATABASE REPORT



DATABASE REPORT

Project Property: *Hu and Garces
APN 3203-034-010 & 3203-034-011
LANCASTER CA 93536*

Project No: *22-388018.1*

Report Type: *Database Report*

Order No: *22100300833*

Requested by: *Partner Engineering and Science, Inc.*

Date Completed: *October 4, 2022*

Environmental Risk Information Services

A division of Glacier Media Inc.

1.866.517.5204 | info@erisinfo.com | erisinfo.com

Table of Contents

Table of Contents.....	2
Executive Summary.....	3
Executive Summary: Report Summary.....	4
Executive Summary: Site Report Summary - Project Property.....	9
Executive Summary: Site Report Summary - Surrounding Properties.....	10
Executive Summary: Summary by Data Source.....	11
Map.....	12
Aerial.....	15
Topographic Map.....	16
Detail Report.....	17
Unplottable Summary.....	18
Unplottable Report.....	19
Appendix: Database Descriptions.....	20
Definitions.....	37

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Reliance on information in Report: This report DOES NOT replace a full Phase I Environmental Site Assessment but is solely intended to be used as database review of environmental records.

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Executive Summary

Property Information:

Project Property: *Hu and Garces*
APN 3203-034-010 & 3203-034-011 LANCASTER CA 93536

Project No: *22-388018.1*

Coordinates:

Latitude:	<i>34.68293192</i>
Longitude:	<i>-118.2914621</i>
UTM Northing:	<i>3,838,641.11</i>
UTM Easting:	<i>381,695.61</i>
UTM Zone:	<i>11S</i>

Elevation: *2,443 FT*

Order Information:

Order No: *22100300833*

Date Requested: *October 3, 2022*

Requested by: *Partner Engineering and Science, Inc.*

Report Type: *Database Report*

Historicals/Products:

Aerial Photographs	<i>Historical Aerials (with Project Boundaries)</i>
City Directory Search	<i>Smart CD Search</i>
ERIS Xplorer	<i>ERIS Xplorer</i>
Excel Add-On	<i>Excel Add-On</i>
Fire Insurance Maps	<i>US Fire Insurance Maps</i>
Physical Setting Report (PSR)	<i>Physical Setting Report (PSR)</i>
Topographic Map	<i>Topographic Maps</i>
Vapor Screening Tool	<i>Vapor Screening Tool</i>

Executive Summary: Report Summary

Database	Searched	Search Radius	Project Property	Within 0.12mi	0.125mi to 0.25mi	0.25mi to 0.50mi	0.50mi to 1.00mi	Total
<u>Standard Environmental Records</u>								
Federal								
DOE FUSRAP	Y	1	0	0	0	0	0	0
NPL	Y	1	0	0	0	0	0	0
PROPOSED NPL	Y	1	0	0	0	0	0	0
DELETED NPL	Y	0.5	0	0	0	0	-	0
SEMS	Y	0.5	0	0	0	0	-	0
ODI	Y	0.5	0	0	0	0	-	0
SEMS ARCHIVE	Y	0.5	0	0	0	0	-	0
CERCLIS	Y	0.5	0	0	0	0	-	0
IODI	Y	0.5	0	0	0	0	-	0
CERCLIS NFRAP	Y	0.5	0	0	0	0	-	0
CERCLIS LIENS	Y	PO	0	-	-	-	-	0
RCRA CORRACTS	Y	1	0	0	0	0	0	0
RCRA TSD	Y	0.5	0	0	0	0	-	0
RCRA LQG	Y	0.25	0	0	0	-	-	0
RCRA SQG	Y	0.25	0	0	0	-	-	0
RCRA VSQG	Y	0.25	0	0	0	-	-	0
RCRA NON GEN	Y	0.25	0	0	0	-	-	0
RCRA CONTROLS	Y	0.5	0	0	0	0	-	0
FED ENG	Y	0.5	0	0	0	0	-	0
FED INST	Y	0.5	0	0	0	0	-	0
LUCIS	Y	0.5	0	0	0	0	-	0
NPL IC	Y	0.5	0	0	0	0	-	0
ERNS 1982 TO 1986	Y	PO	0	-	-	-	-	0
ERNS 1987 TO 1989	Y	PO	0	-	-	-	-	0
ERNS	Y	PO	0	-	-	-	-	0
FED BROWNFIELDS	Y	0.5	0	0	0	0	-	0
FEMA UST	Y	0.25	0	0	0	-	-	0

Database	Searched	Search Radius	Project Property	Within 0.12mi	0.125mi to 0.25mi	0.25mi to 0.50mi	0.50mi to 1.00mi	Total
FRP	Y	0.25	0	0	0	-	-	0
DELISTED FRP	Y	0.25	0	0	0	-	-	0
HIST GAS STATIONS	Y	0.25	0	0	0	-	-	0
REFN	Y	0.25	0	0	0	-	-	0
BULK TERMINAL	Y	0.25	0	0	0	-	-	0
SEMS LIEN	Y	PO	0	-	-	-	-	0
SUPERFUND ROD	Y	1	0	0	0	0	0	0

State

RESPONSE	Y	1	0	0	0	0	0	0
ENVIROSTOR	Y	1	0	0	0	0	0	0
DELISTED ENVS	Y	1	0	0	0	0	0	0
SWF/LF	Y	0.5	0	0	0	0	-	0
SWRCB SWF	Y	0.5	0	0	0	0	-	0
WMUD	Y	0.5	0	0	0	0	-	0
HWP	Y	1	0	0	0	0	0	0
SWAT	Y	0.5	0	0	0	0	-	0
C&D DEBRIS RECY	Y	0.5	0	0	0	0	-	0
RECYCLING	Y	0.5	0	0	0	0	-	0
PROCESSORS	Y	0.5	0	0	0	0	-	0
CONTAINER RECY	Y	0.5	0	0	0	0	-	0
LDS	Y	0.5	0	0	0	0	-	0
LUST	Y	0.5	0	0	0	0	-	0
DELISTED LST	Y	0.5	0	0	0	0	-	0
UST	Y	0.25	0	0	0	-	-	0
UST CLOSURE	Y	0.5	0	0	0	0	-	0
HHSS	Y	0.25	0	0	0	-	-	0
UST SWEEPS	Y	0.25	0	0	0	-	-	0
AST	Y	0.25	0	0	0	-	-	0
AST SWRCB	Y	0.25	0	0	0	-	-	0
TANK OIL GAS	Y	0.25	0	0	0	-	-	0
DELISTED TNK	Y	0.25	0	0	0	-	-	0
CERS TANK	Y	0.25	0	0	0	-	-	0
DELISTED CTNK	Y	0.25	0	0	0	-	-	0
HIST TANK	Y	0.25	0	0	0	-	-	0

Database	Searched	Search Radius	Project Property	Within 0.12mi	0.125mi to 0.25mi	0.25mi to 0.50mi	0.50mi to 1.00mi	Total
LUR	Y	0.5	0	0	0	0	-	0
CALSITES	Y	0.5	0	0	0	0	-	0
HLUR	Y	0.5	0	0	0	0	-	0
DEED	Y	0.5	0	0	0	0	-	0
VCP	Y	0.5	0	0	0	0	-	0
CLEANUP SITES	Y	0.5	0	0	0	0	-	0
DELISTED CLEANUP	Y	0.5	0	0	0	0	-	0
DELISTED COUNTY	Y	0.25	0	0	0	-	-	0

Tribal

INDIAN LUST	Y	0.5	0	0	0	0	-	0
INDIAN UST	Y	0.25	0	0	0	-	-	0
DELISTED ILST	Y	0.5	0	0	0	0	-	0
DELISTED IUST	Y	0.25	0	0	0	-	-	0

County

SML LA	Y	0.5	0	0	0	0	-	0
SWF LA COUNTY	Y	0.5	0	0	0	0	-	0
CUPA LA COUNTY	Y	0.25	0	0	0	-	-	0
HMS LA	Y	0.25	0	0	0	-	-	0
UST SANTAFESP	Y	0.25	0	0	0	-	-	0
UST LONGB	Y	0.25	0	0	0	-	-	0
CUPA BURBANK	Y	0.25	0	0	0	-	-	0
UST ELSEGUNDO	Y	0.25	0	0	0	-	-	0
UST SANTA MONICA	Y	0.25	0	0	0	-	-	0
AST SANTAMON	Y	0.25	0	0	0	-	-	0
CUPA SANTAMON	Y	0.25	0	0	0	-	-	0
UST TORRANCE	Y	0.25	0	0	0	-	-	0
UST VERNON	Y	0.25	0	0	0	-	-	0
CUPA VERNON	Y	0.25	0	0	0	-	-	0
UST LA CITY	Y	0.25	0	0	0	-	-	0
AST LA CITY	Y	0.25	0	0	0	-	-	0
HAZMAT LA CITY	Y	0.125	0	0	-	-	-	0

Additional Environmental Records

Federal

FINDS/FRS	Y	PO	0	-	-	-	-	0
-----------	---	----	---	---	---	---	---	---

Database	Searched	Search Radius	Project Property	Within 0.12mi	0.125mi to 0.25mi	0.25mi to 0.50mi	0.50mi to 1.00mi	Total
TRIS	Y	PO	0	-	-	-	-	0
PFAS TRI	Y	0.5	0	0	0	0	-	0
PFAS NPL	Y	0.5	0	0	0	0	-	0
PFAS WATER	Y	0.5	0	0	0	0	-	0
PFAS SSEHRI	Y	0.5	0	0	0	0	-	0
ERNS PFAS	Y	0.5	0	0	0	0	-	0
HMIRS	Y	0.125	0	0	-	-	-	0
NCDL	Y	0.125	0	0	-	-	-	0
TSCA	Y	0.125	0	0	-	-	-	0
HIST TSCA	Y	0.125	0	0	-	-	-	0
FTTS ADMIN	Y	PO	0	-	-	-	-	0
FTTS INSP	Y	PO	0	-	-	-	-	0
PRP	Y	PO	0	-	-	-	-	0
SCRD DRYCLEANER	Y	0.5	0	0	0	0	-	0
ICIS	Y	PO	0	-	-	-	-	0
FED DRYCLEANERS	Y	0.25	0	0	0	-	-	0
DELISTED FED DRY	Y	0.25	0	0	0	-	-	0
FUDS	Y	1	0	0	0	0	0	0
FORMER NIKE	Y	1	0	0	0	0	0	0
PIPELINE INCIDENT	Y	PO	0	-	-	-	-	0
MLTS	Y	PO	0	-	-	-	-	0
HIST MLTS	Y	PO	0	-	-	-	-	0
MINES	Y	0.25	0	0	0	-	-	0
SMCRA	Y	1	0	0	0	0	0	0
MRDS	Y	1	0	0	0	0	0	0
URANIUM	Y	1	0	0	0	0	0	0
ALT FUELS	Y	0.25	0	0	0	-	-	0
CONSENT DECREES	Y	0.25	0	0	0	-	-	0
AFS	Y	PO	0	-	-	-	-	0
SSTS	Y	0.25	0	0	0	-	-	0
PCBT	Y	0.5	0	0	0	0	-	0
PCB	Y	0.5	0	0	0	0	-	0
State								
DRYCLEANERS	Y	0.25	0	0	0	-	-	0
DELISTED DRYCLEANERS	Y	0.25	0	0	0	-	-	0

Database	Searched	Search Radius	Project Property	Within 0.12mi	0.125mi to 0.25mi	0.25mi to 0.50mi	0.50mi to 1.00mi	Total
DRYC GRANT	Y	0.25	0	0	0	-	-	0
PFAS	Y	0.5	0	0	0	0	-	0
PFAS GW	Y	0.5	0	0	0	0	-	0
HWSS CLEANUP	Y	0.5	0	0	0	0	-	0
TOXIC PITS	Y	1	0	0	0	0	0	0
DTSC HWF	Y	0.5	0	0	0	0	-	0
INSP COMP ENF	Y	1	0	0	0	0	0	0
SCH	Y	1	0	0	0	0	0	0
CHMIRS	Y	PO	0	-	-	-	-	0
HIST CHMIRS	Y	PO	0	-	-	-	-	0
HAZNET	Y	PO	0	-	-	-	-	0
HAZ GEN	Y	PO	0	-	-	-	-	0
HAZ TSD	Y	0.5	0	0	0	0	-	0
HIST MANIFEST	Y	PO	0	-	-	-	-	0
HW TRANSPORT	Y	0.125	0	0	-	-	-	0
WASTE TIRE	Y	PO	0	-	-	-	-	0
MEDICAL WASTE	Y	0.25	0	0	0	-	-	0
HIST CORTESE	Y	0.5	0	0	0	0	-	0
CDO/CAO	Y	0.5	0	0	0	0	-	0
CERS HAZ	Y	0.125	0	0	-	-	-	0
DELISTED HAZ	Y	0.5	0	0	0	0	-	0
GEOTRACKER	Y	0.125	0	0	-	-	-	0
MINE	Y	1	0	0	0	0	0	0
LIEN	Y	PO	0	-	-	-	-	0
WASTE DISCHG	Y	0.25	0	0	0	-	-	0
EMISSIONS	Y	0.25	0	0	0	-	-	0
CDL	Y	0.125	0	0	-	-	-	0

Tribal

No Tribal additional environmental record sources available for this State.

County

HAZMAT SANTAMON	Y	0.125	0	0	-	-	-	0
HAZ WST SANTAMON	Y	0.125	0	0	-	-	-	0

Total: 0 0 0 0 0 0

* PO – Property Only

* 'Property and adjoining properties' database search radii are set at 0.25 miles.

Executive Summary: Site Report Summary - Project Property

<i>Map Key</i>	<i>DB</i>	<i>Company/Site Name</i>	<i>Address</i>	<i>Direction</i>	<i>Distance (mi/ft)</i>	<i>Elev Diff (ft)</i>	<i>Page Number</i>
--------------------	-----------	--------------------------	----------------	------------------	-----------------------------	---------------------------	------------------------

No records found in the selected databases for the project property.

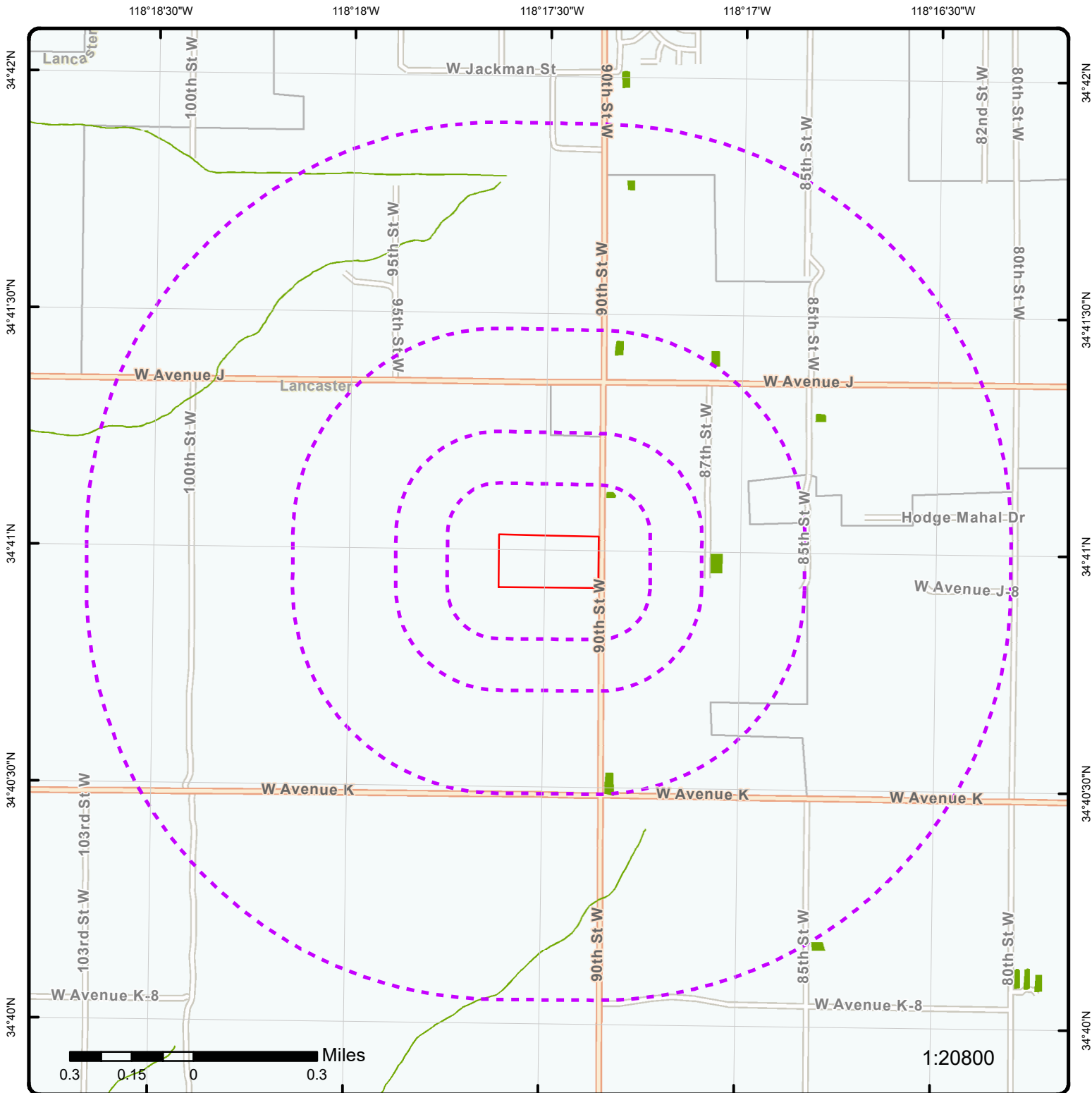
Executive Summary: Site Report Summary - Surrounding Properties

<i>Map Key</i>	<i>DB</i>	<i>Company/Site Name</i>	<i>Address</i>	<i>Direction</i>	<i>Distance (mi/ft)</i>	<i>Elev Diff (ft)</i>	<i>Page Number</i>
--------------------	-----------	--------------------------	----------------	------------------	-----------------------------	---------------------------	------------------------

No records found in the selected databases for the surrounding properties.

Executive Summary: Summary by Data Source

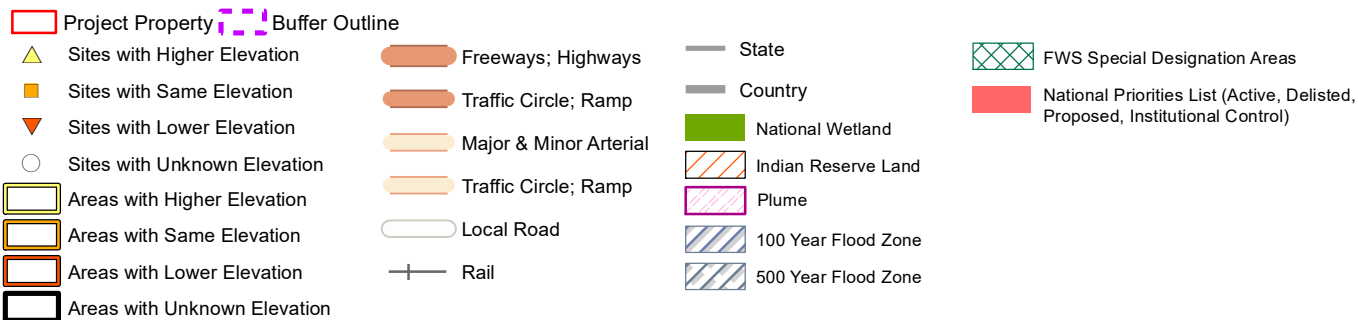
No records found in the selected databases for the project property or surrounding properties.

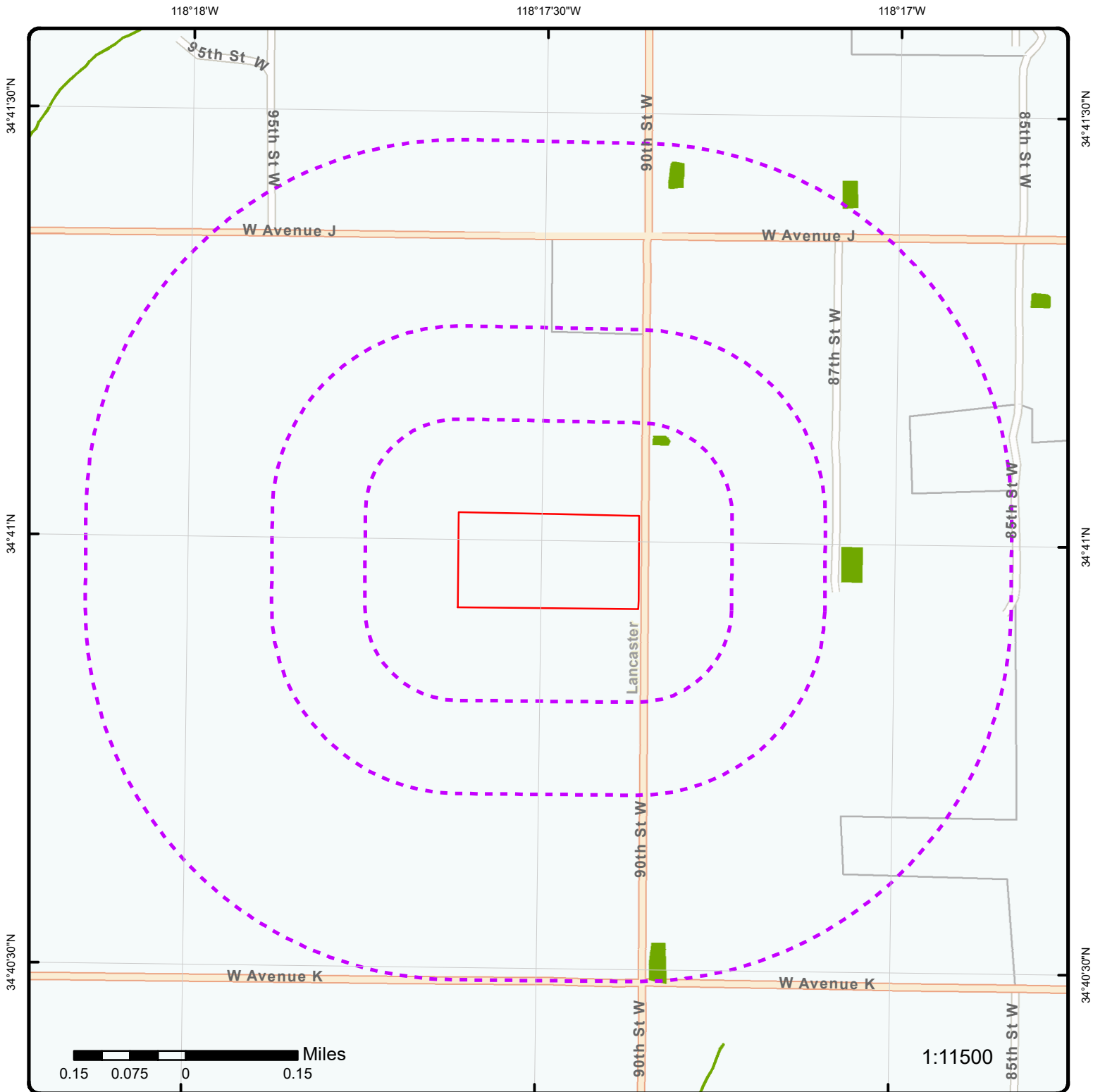


Map: 1.0 Mile Radius

Order Number: 22100300833

Address: APN 3203-034-010 & 3203-034-011, LANCASTER, CA

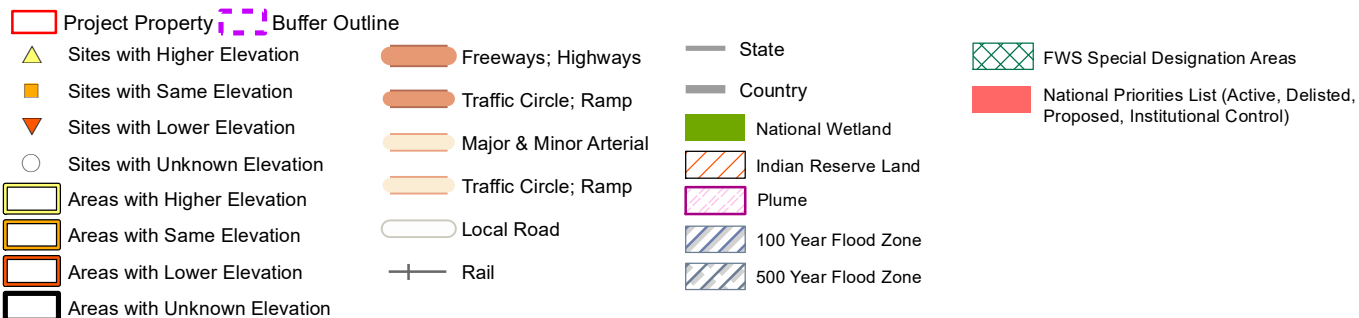




Map: 0.5 Mile Radius

Order Number: 22100300833

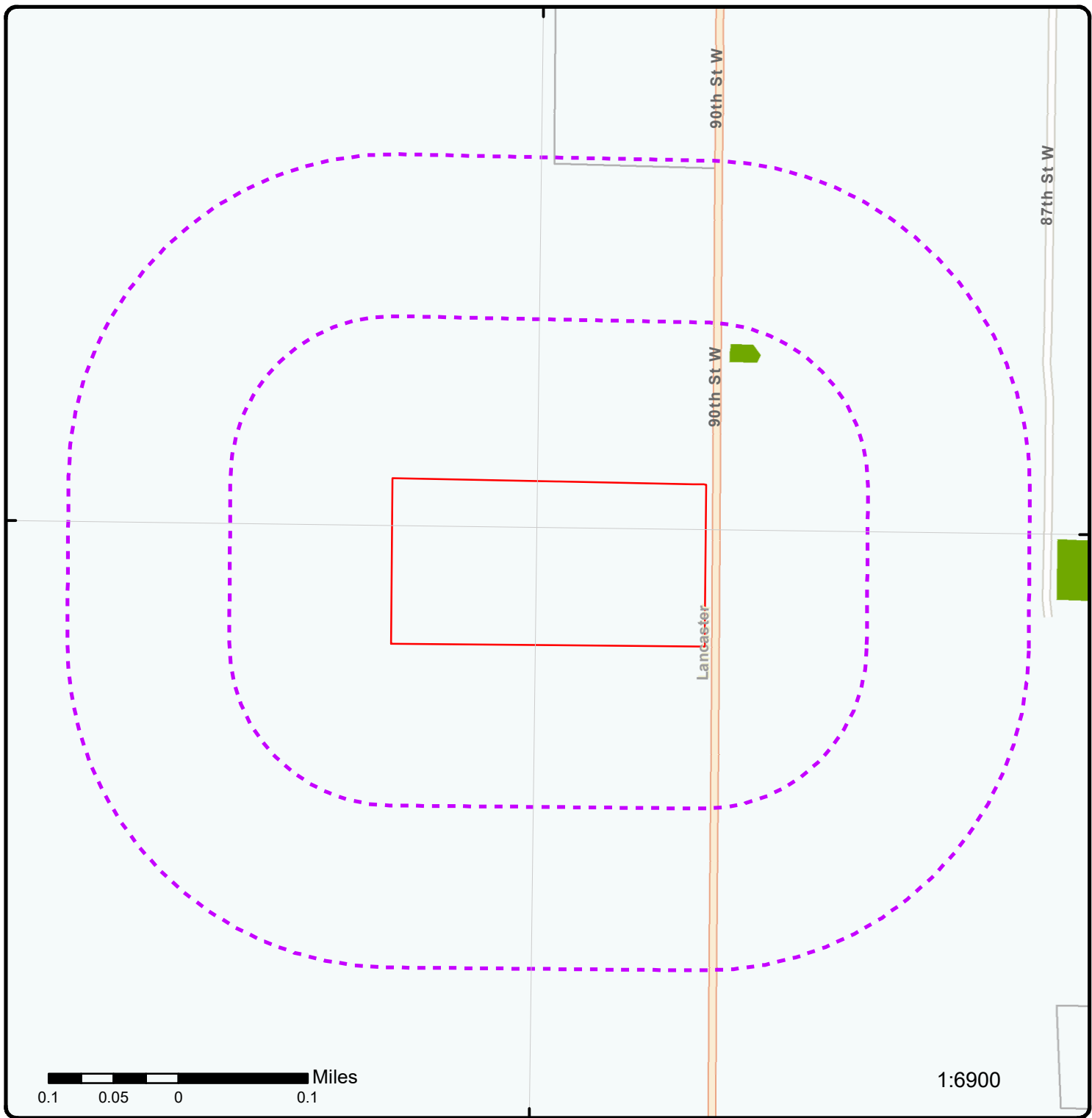
Address: APN 3203-034-010 & 3203-034-011, LANCASTER, CA



118°17'30"W

34°41'N

34°41'N



Map: 0.25 Mile Radius

Order Number: 22100300833

Address: APN 3203-034-010 & 3203-034-011, LANCASTER, CA



- | | | | | |
|---|---|---|---|---|
| Project Property | Buffer Outline | Freeways; Highways | State | FWS Special Designation Areas |
| ▲ Sites with Higher Elevation | Traffic Circle; Ramp | Country | National Wetland | National Priorities List (Active, Delisted, Proposed, Institutional Control) |
| ▼ Sites with Same Elevation | Major & Minor Arterial | Indian Reserve Land | Plume | |
| ▼ Sites with Lower Elevation | Traffic Circle; Ramp | 100 Year Flood Zone | 500 Year Flood Zone | |
| ○ Sites with Unknown Elevation | Local Road | | | |
| Areas with Higher Elevation | Rail | | | |
| Areas with Same Elevation | | | | |
| Areas with Lower Elevation | | | | |
| Areas with Unknown Elevation | | | | |

118°18'W

118°17'30"W

118°17'W

34°41'30"N

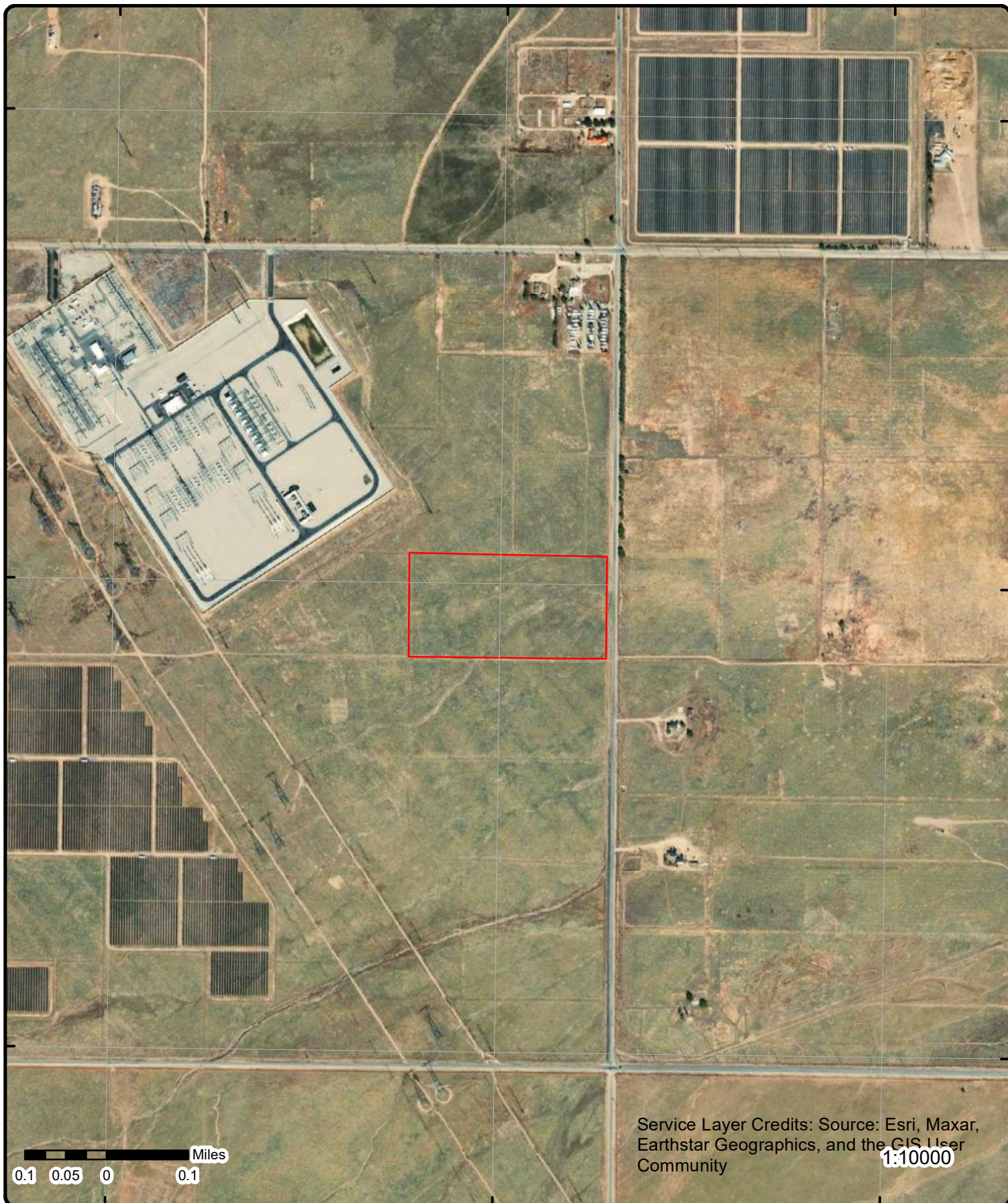
34°41'30"N

34°41'N

34°41'N

34°40'30"N

34°40'30"N



Service Layer Credits: Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community

1:10000

Aerial Year: 2021

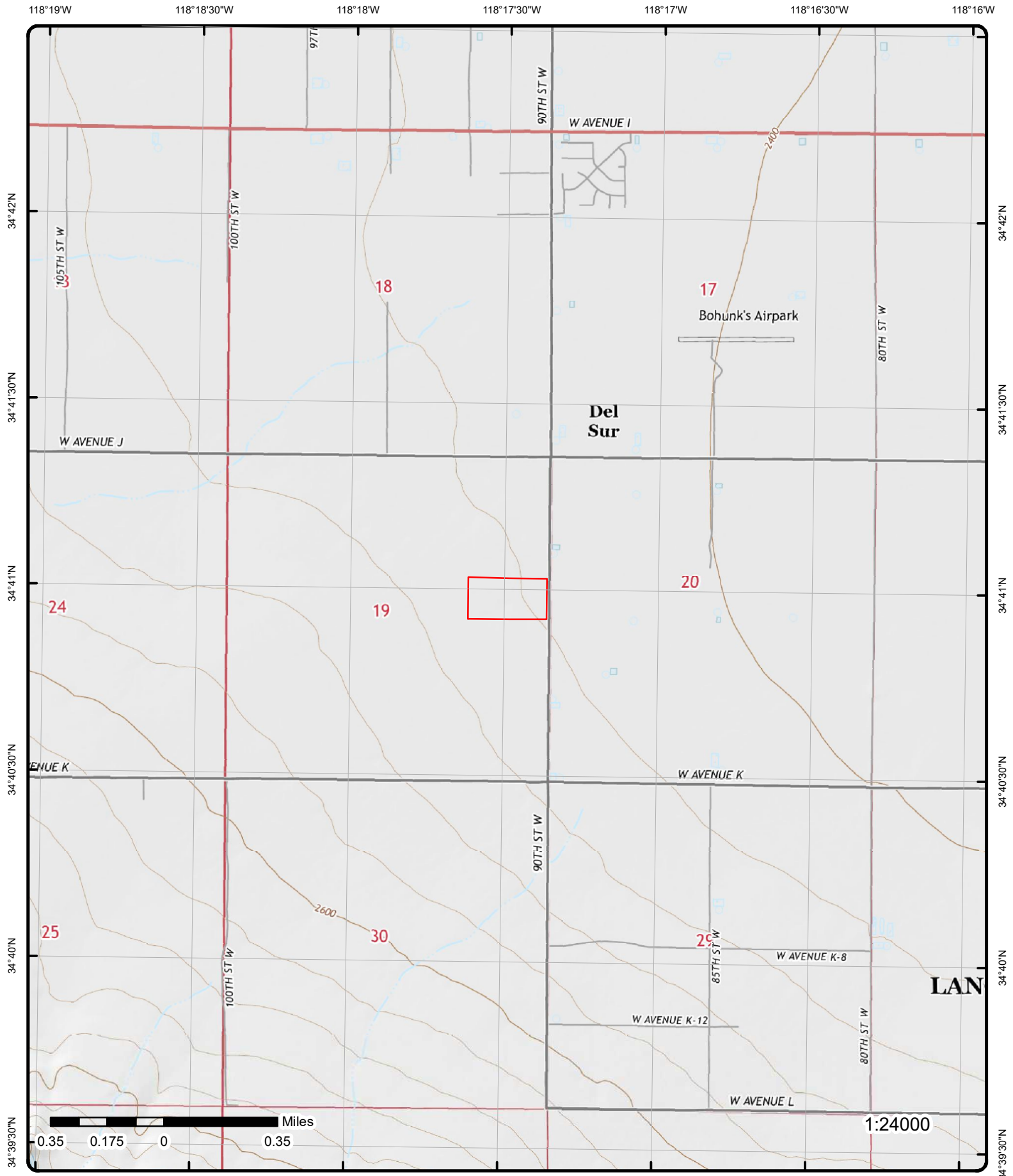
Order Number: 22100300833

Address: APN 3203-034-010 & 3203-034-011, LANCASTER, CA



© ERIS Information Inc.

Source: ESRI World Imagery



Topographic Map Year: 2015

Address: APN 3203-034-010 & 3203-034-011, CA

Quadrangle(s): Del Sur, CA

Source: USGS Topographic Map

Order Number: 22100300833



© ERIS Information Inc.

Detail Report

<i>Map Key</i>	<i>Number of Records</i>	<i>Direction</i>	<i>Distance (mi/ft)</i>	<i>Elev/Diff (ft)</i>	<i>Site</i>	<i>DB</i>
----------------	------------------------------	------------------	-----------------------------	---------------------------	-------------	-----------

No records found in the selected databases for the project property or surrounding properties.

Unplottable Summary

Total: 0 Unplottable sites

DB	Company Name/Site Name	Address	City	Zip	ERIS ID
----	------------------------	---------	------	-----	---------

No unplottable records were found that may be relevant for the search criteria.

Unplottable Report

No unplottable records were found that may be relevant for the search criteria.

Appendix: Database Descriptions

Environmental Risk Information Services (ERIS) can search the following databases. The extent of historical information varies with each database and current information is determined by what is publicly available to ERIS at the time of update. ERIS updates databases as set out in ASTM Standard E1527-13 and E1527-21, Section 8.1.8 Sources of Standard Source Information:

"Government information from nongovernmental sources may be considered current if the source updates the information at least every 90 days, or, for information that is updated less frequently than quarterly by the government agency, within 90 days of the date the government agency makes the information available to the public."

Standard Environmental Record Sources

Federal

Formerly Utilized Sites Remedial Action Program:

DOE FUSRAP

The U.S. Department of Energy (DOE) established the Formerly Utilized Sites Remedial Action Program (FUSRAP) in 1974 to remediate sites where radioactive contamination remained from the Manhattan Project and early U.S. Atomic Energy Commission (AEC) operations. The DOE Office of Legacy Management (LM) established long-term surveillance and maintenance (LTS&M) requirements for remediated FUSRAP sites. DOE evaluates the final site conditions of a remediated site on the basis of risk for different future uses. DOE then confirms that LTS&M requirements will maintain protectiveness.

Government Publication Date: Mar 4, 2017

National Priority List:

NPL

Sites on the United States Environmental Protection Agency (EPA)'s National Priorities List of the most serious uncontrolled or abandoned hazardous waste sites identified for possible long-term remedial action under the Superfund program. The NPL, which EPA is required to update at least once a year, is based primarily on the score a site receives from EPA's Hazard Ranking System. A site must be on the NPL to receive money from the Superfund Trust Fund for remedial action. Sites are represented by boundaries where available in the EPA Superfund Site Boundaries maintained by the Shared Enterprise Geodata and Services (SEGS). Site boundaries represent the footprint of a whole site, the sum of all of the Operable Units and the current understanding of the full extent of contamination; for Federal Facility sites, the total site polygon may be the Facility boundary. Where there is no polygon boundary data available for a given site, the site is represented as a point.

Government Publication Date: May 25, 2022

National Priority List - Proposed:

PROPOSED NPL

Sites proposed - by the EPA, the state agency, or concerned citizens - for addition to the NPL due to contamination by hazardous waste and identified by the Environmental Protection Agency (EPA) as a candidate for cleanup because it poses a risk to human health and/or the environment. Sites are represented by boundaries where available in the EPA Superfund Site Boundaries maintained by the Shared Enterprise Geodata and Services (SEGS). Site boundaries represent the footprint of a whole site, the sum of all of the Operable Units and the current understanding of the full extent of contamination; for Federal Facility sites, the total site polygon may be the Facility boundary. Where there is no polygon boundary data available for a given site, the site is represented as a point.

Government Publication Date: May 25, 2022

Deleted NPL:

DELETED NPL

Sites deleted from the United States Environmental Protection Agency (EPA)'s National Priorities List. 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. Sites are represented by boundaries where available in the EPA Superfund Site Boundaries maintained by the Shared Enterprise Geodata and Services (SEGS). Site boundaries represent the footprint of a whole site, the sum of all of the Operable Units and the current understanding of the full extent of contamination; for Federal Facility sites, the total site polygon may be the Facility boundary. Where there is no polygon boundary data available for a given site, the site is represented as a point.

Government Publication Date: May 25, 2022

SEMS List 8R Active Site Inventory:[SEMS](#)

The Superfund Program has deployed the Superfund Enterprise Management System (SEMS), which integrates multiple legacy systems into a comprehensive tracking and reporting tool. This inventory contains active sites evaluated by the Superfund program that are either proposed to be or are on the National Priorities List (NPL) as well as sites that are in the screening and assessment phase for possible inclusion on the NPL. The Active Site Inventory Report displays site and location information at active SEMS sites. An active site is one at which site assessment, removal, remedial, enforcement, cost recovery, or oversight activities are being planned or conducted.

Government Publication Date: Jun 30, 2022

Inventory of Open Dumps, June 1985:[ODI](#)

The Resource Conservation and Recovery Act (RCRA) provides for publication of an inventory of open dumps. The Act defines "open dumps" as facilities which do not comply with EPA's "Criteria for Classification of Solid Waste Disposal Facilities and Practices" (40 CFR 257).

Government Publication Date: Jun 1985

SEMS List 8R Archive Sites:[SEMS ARCHIVE](#)

The Superfund Enterprise Management System (SEMS) Archived Site Inventory displays site and location information at sites archived from SEMS. An archived site is one at which EPA has determined that assessment has been completed and no further remedial action is planned under the Superfund program at this time.

Government Publication Date: Jun 30, 2022

Comprehensive Environmental Response, Compensation and Liability Information System -[CERCLIS](#)**CERCLIS:**

Superfund is a program administered by the United States Environmental Protection Agency (EPA) to locate, investigate, and clean up the worst hazardous waste sites throughout the United States. CERCLIS is a database of potential and confirmed hazardous waste sites at which the EPA Superfund program has some involvement. It contains sites that are either proposed to be or are on the National Priorities List (NPL) as well as sites that are in the screening and assessment phase for possible inclusion on the NPL. The EPA administers the Superfund program in cooperation with individual states and tribal governments; this database is made available by the EPA.

Government Publication Date: Oct 25, 2013

EPA Report on the Status of Open Dumps on Indian Lands:[IODI](#)

Public Law 103-399, The Indian Lands Open Dump Cleanup Act of 1994, enacted October 22, 1994, identified congressional concerns that solid waste open dump sites located on American Indian or Alaska Native (AI/AN) lands threaten the health and safety of residents of those lands and contiguous areas. The purpose of the Act is to identify the location of open dumps on Indian lands, assess the relative health and environment hazards posed by those sites, and provide financial and technical assistance to Indian tribal governments to close such dumps in compliance with Federal standards and regulations or standards promulgated by Indian Tribal governments or Alaska Native entities.

Government Publication Date: Dec 31, 1998

CERCLIS - No Further Remedial Action Planned:[CERCLIS NFRAP](#)

An archived site is one at which EPA has determined that assessment has been completed and no further remedial action is planned under the Superfund program at this time. The Archive designation means 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 this site on the National Priorities List (NPL). This 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 a potential NPL site.

Government Publication Date: Oct 25, 2013

CERCLIS Liens:[CERCLIS LIENS](#)

A Federal Superfund lien exists at any property where EPA has incurred Superfund costs to address contamination ("Superfund site") and has provided notice of liability to the property owner. A Federal CERCLA ("Superfund") lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. This database is made available by the United States Environmental Protection Agency (EPA). This database was provided by the United States Environmental Protection Agency (EPA). Refer to SEMS LIEN as the current data source for Superfund Liens.

Government Publication Date: Jan 30, 2014

RCRA CORRACTS-Corrective Action:[RCRA CORRACTS](#)

RCRA Info 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. At these sites, the Corrective Action Program ensures that cleanups occur. EPA and state regulators work with facilities and communities to design remedies based on the contamination, geology, and anticipated use unique to each site.

Government Publication Date: Jun 27, 2022

RCRA non-CORRACTS TSD Facilities:[RCRA TSD](#)

RCRA Info 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. This database includes Non-Corrective Action sites listed as treatment, storage and/or disposal facilities of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA).

Government Publication Date: Jun 27, 2022

RCRA Generator List:[RCRA LQG](#)

RCRA Info 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. RCRA Info replaces the data recording and reporting abilities of the Resource Conservation and Recovery Information System (RCRIS) and the Biennial Reporting System (BRS). A hazardous waste generator is any person or site whose processes and actions create hazardous waste (see 40 CFR 260.10). Large Quantity Generators (LQGs) generate 1,000 kilograms per month or more of hazardous waste or more than one kilogram per month of acutely hazardous waste.

Government Publication Date: Jun 27, 2022

RCRA Small Quantity Generators List:[RCRA SQG](#)

RCRA Info is the 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. RCRA Info replaces the data recording and reporting abilities of the Resource Conservation and Recovery Information System (RCRIS) and the Biennial Reporting System (BRS). A hazardous waste generator is any person or site whose processes and actions create hazardous waste (see 40 CFR 260.10). Small Quantity Generators (SQGs) generate more than 100 kilograms, but less than 1,000 kilograms, of hazardous waste per month.

Government Publication Date: Jun 27, 2022

RCRA Very Small Quantity Generators List:[RCRA VSQG](#)

RCRA Info is the 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. A hazardous waste generator is any person or site whose processes and actions create hazardous waste (see 40 CFR 260.10). Very Small Quantity Generators (VSQG) generate 100 kilograms or less per month of hazardous waste, or one kilogram or less per month of acutely hazardous waste. Additionally, VSQG may not accumulate more than 1,000 kilograms of hazardous waste at any time.

Government Publication Date: Jun 27, 2022

RCRA Non-Generators:[RCRA NON GEN](#)

RCRA Info 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. RCRA Info replaces the data recording and reporting abilities of the Resource Conservation and Recovery Information System (RCRIS) and the Biennial Reporting System (BRS). A hazardous waste generator is any person or site whose processes and actions create hazardous waste (see 40 CFR 260.10). Non-Generators do not presently generate hazardous waste.

Government Publication Date: Jun 27, 2022

RCRA Sites with Controls:[RCRA CONTROLS](#)

List of Resource Conservation and Recovery Act (RCRA) facilities with institutional controls in place. RCRA gives the U.S. Environmental Protection Agency (EPA) the authority to control hazardous waste from the "cradle-to-grave." This includes the generation, transportation, treatment, storage, and disposal of hazardous waste. RCRA also set forth a framework for the management of non-hazardous solid wastes. The 1986 amendments to RCRA enabled EPA to address environmental problems that could result from underground tanks storing petroleum and other hazardous substances.

Government Publication Date: Jun 27, 2022

Federal Engineering Controls-ECs:[FED ENG](#)

Engineering controls (ECs) encompass a variety of engineered and constructed physical barriers (e.g., soil capping, sub-surface venting systems, mitigation barriers, fences) to contain and/or prevent exposure to contamination on a property. This database is made available by the United States Environmental Protection Agency (EPA).

Government Publication Date: May 25, 2022

Federal Institutional Controls- ICs:[FED INST](#)

Institutional controls are non-engineered instruments, such as administrative and legal controls, that help minimize the potential for human exposure to contamination and/or protect the integrity of the remedy. Although it is EPA's (United States Environmental Protection Agency) expectation that treatment or engineering controls will be used to address principal threat wastes and that groundwater will be returned to its beneficial use whenever practicable, ICs play an important role in site remedies because they reduce exposure to contamination by limiting land or resource use and guide human behavior at a site.

Government Publication Date: May 25, 2022

Land Use Control Information System:

LUCIS

The LUCIS database is maintained by the U.S. Department of the Navy and contains information for former Base Realignment and Closure (BRAC) properties across the United States.

Government Publication Date: Sep 1, 2006

Institutional Control Boundaries at NPL sites:

NPL IC

Boundaries of Institutional Control areas at sites on the United States Environmental Protection Agency (EPA)'s National Priorities List, or Proposed or Deleted, made available by the EPA's Shared Enterprise Geodata and Services (SEGS). United States Environmental Protection Agency (EPA)'s National Priorities List of the most serious uncontrolled or abandoned hazardous waste sites identified for possible long-term remedial action under the Superfund program. Institutional controls are non-engineered instruments such as administrative and legal controls that help minimize the potential for human exposure to contamination and/or protect the integrity of the remedy.

Government Publication Date: May 25, 2022

Emergency Response Notification System:

ERNS 1982 TO 1986

Database of oil and hazardous substances spill reports controlled by the National Response Center. The primary function of the National Response Center is to serve as the sole national point of contact for reporting oil, chemical, radiological, biological, and etiological discharges into the environment anywhere in the United States and its territories.

Government Publication Date: 1982-1986

Emergency Response Notification System:

ERNS 1987 TO 1989

Database of oil and hazardous substances spill reports controlled by the National Response Center. The primary function of the National Response Center is to serve as the sole national point of contact for reporting oil, chemical, radiological, biological, and etiological discharges into the environment anywhere in the United States and its territories.

Government Publication Date: 1987-1989

Emergency Response Notification System:

ERNS

Database of oil and hazardous substances spill reports made available by the United States Coast Guard National Response Center (NRC). The NRC fields initial reports for pollution and railroad incidents and forwards that information to appropriate federal/state agencies for response. These data contain initial incident data that has not been validated or investigated by a federal/state response agency.

Government Publication Date: Jun 5, 2022

The Assessment, Cleanup and Redevelopment Exchange System (ACRES) Brownfield Database:

FED BROWNFIELDS

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 protects the environment, reduces blight, and takes development pressures off greenspaces and working lands. This database is made available by the United States Environmental Protection Agency (EPA).

Government Publication Date: Aug 20, 2021

FEMA Underground Storage Tank Listing:

FEMA UST

The Federal Emergency Management Agency (FEMA) of the Department of Homeland Security maintains a list of FEMA owned underground storage tanks.

Government Publication Date: Dec 31, 2017

Facility Response Plan:

FRP

List of facilities that have submitted Facility Response Plans (FRP) to EPA. Facilities that could reasonably be expected to cause "substantial harm" to the environment by discharging oil into or on navigable waters are required to prepare and submit Facility Response Plans (FRPs). Harm is determined based on total oil storage capacity, secondary containment and age of tanks, oil transfer activities, history of discharges, proximity to a public drinking water intake or sensitive environments.

Government Publication Date: Dec 31, 2021

Delisted Facility Response Plans:

DELISTED FRP

Facilities that once appeared in - and have since been removed from - the list of facilities that have submitted Facility Response Plans (FRP) to EPA. Facilities that could reasonably be expected to cause "substantial harm" to the environment by discharging oil into or on navigable waters are required to prepare and submit Facility Response Plans (FRPs). Harm is determined based on total oil storage capacity, secondary containment and age of tanks, oil transfer activities, history of discharges, proximity to a public drinking water intake or sensitive environments.

Government Publication Date: Dec 31, 2021

Historical Gas Stations:[HIST GAS STATIONS](#)

This historic directory of service stations is provided by the Cities Service Company. The directory includes Cities Service filling stations that were located throughout the United States in 1930.

Government Publication Date: Jul 1, 1930

Petroleum Refineries:[REFN](#)

List of petroleum refineries from the U.S. Energy Information Administration (EIA) Refinery Capacity Report. Includes operating and idle petroleum refineries (including new refineries under construction) and refineries shut down during the previous year located in the 50 States, the District of Columbia, Puerto Rico, the Virgin Islands, Guam, and other U.S. possessions. Survey locations adjusted using public data.

Government Publication Date: Feb 4, 2022

Petroleum Product and Crude Oil Rail Terminals:[BULK TERMINAL](#)

List of petroleum product and crude oil rail terminals made available by the U.S. Energy Information Administration (EIA). Includes operable bulk petroleum product terminals located in the 50 States and the District of Columbia with a total bulk shell storage capacity of 50,000 barrels or more, and/or the ability to receive volumes from tanker, barge, or pipeline; also rail terminals handling the loading and unloading of crude oil that were active between 2017 and 2018. Petroleum product terminals comes from the EIA-815 Bulk Terminal and Blender Report, which includes working, shell in operation, and shell idle for several major product groupings. Survey locations adjusted using public data.

Government Publication Date: Feb 4, 2022

LIEN on Property:[SEMS LIEN](#)

The EPA Superfund Enterprise Management System (SEMS) provides LIEN information on properties under the EPA Superfund Program.

Government Publication Date: Jun 30, 2022

Superfund Decision Documents:[SUPERFUND ROD](#)

This database contains a listing of decision documents for Superfund sites. Decision documents serve to provide the reasoning for the choice of (or) changes to a Superfund Site cleanup plan. The decision documents include Records of Decision (ROD), ROD Amendments, Explanations of Significant Differences (ESD), along with other associated memos and files. This information is maintained and made available by the US EPA (Environmental Protection Agency).

Government Publication Date: Jul 26, 2022

State**State Response Sites:**[RESPONSE](#)

A list of identified confirmed release sites where the Department of Toxic Substances Control (DTSC) is involved in remediation, either in a lead or oversight capacity. These confirmed release sites are generally high-priority and high potential risk. This database is state equivalent NPL.

Government Publication Date: May 30, 2022

EnviroStor Database:[ENVIROSTOR](#)

The EnviroStor Data Management System is made available by the Department of Toxic Substances Control (DTSC). Includes Corrective Action sites, Tiered Permit sites, Historical Sites and Evaluation/Investigation sites. This database is state equivalent CERCLIS.

Government Publication Date: May 30, 2022

Delisted State Response Sites:[DELISTED ENVS](#)

Sites removed from the list of State Response Sites made available by the EnviroStor Data Management System, Department of Toxic Substances Control (DTSC).

Government Publication Date: May 30, 2022

Solid Waste Information System (SWIS):[SWF/LF](#)

The Solid Waste Information System (SWIS) database made available by the Department of Resources Recycling and Recovery (CalRecycle) contains information on solid waste facilities, operations, and disposal sites throughout the State of California. The types of facilities found in this database include landfills, transfer stations, material recovery facilities, composting sites, transformation facilities, waste tire sites, and closed disposal sites.

Government Publication Date: Aug 3, 2022

Solid Waste Disposal Sites with Waste Constituents Above Hazardous Waste Levels:[SWRCB SWF](#)

This is a list of solid waste disposal sites identified by California State Water Resources Control Board with waste constituents above hazardous waste levels outside the waste management unit.

Government Publication Date: Sep 20, 2006

Waste Management Unit Database:

WMUD

The Waste Management Unit Database System tracks and inventories waste management units. CCR Title 27 contains criteria stating that Waste Management Units are classified according to their ability to contain wastes. Containment shall be determined by geology, hydrology, topography, climatology, and other factors relating to the ability of the Unit to protect water quality. Water Code Section 13273.1 requires that operators submit a water quality solid waste assessment test (SWAT) report to address leak status. The WMUDS was last updated by the State Water Resources control board in 2000.

Government Publication Date: Jan 1, 2000

EnviroStor Hazardous Waste Facilities:

HWP

A list of hazardous waste facilities including permitted, post-closure and historical facilities found in the Department of Toxic Substances Control (DTSC) EnviroStor database.

Government Publication Date: May 30, 2022

Sites Listed in the Solid Waste Assessment Test (SWAT) Program Report:

SWAT

In a 1993 Memorandum of Understanding, the State Water Resources Control Board (SWRCB) agreed to submit a comprehensive report on the Solid Waste Assessment Test (SWAT) Program to the California Integrated Waste Management Board (CIWMB). This report summarizes the work completed to date on the SWAT Program, and addresses both the impacts that leakage from solid waste disposal sites (SWDS) may have upon waters of the State and the actions taken to address such leakage.

Government Publication Date: Dec 31, 1995

Construction and Demolition Debris Recyclers:

C&D DEBRIS RECY

This listing of Construction and Demolition Debris Recyclers is maintained by the California Intergrated Waste Management Board-common C&D materials include lumber, drywall, metals, masonry (brick, concrete, etc.), carpet, plastic, pipe, rocks, dirt, paper, cardboard, or green waste related to land development.

Government Publication Date: Jun 20, 2018

Recycling Centers:

RECYCLING

This list of Certified Recycling Centers that are operating under the state of California's Beverage Container Recycling Program is maintained by the California Department of Resources Recycling and Recovery.

Government Publication Date: Jul 12, 2022

Listing of Certified Processors:

PROCESSORS

This list of Certified Processors that are operating under the state of California's Beverage Container Recycling Program is maintained by the California Department of Resources Recycling and Recovery.

Government Publication Date: Jul 12, 2022

Listing of Certified Dropoff, Collection, and Community Service Programs:

CONTAINER RECY

This list of Certified Dropoff, Collection, and Community Service Programs (non-buyback) operating under the state of California's Beverage Container Recycling Program is maintained by the California Department of Resources Recycling and Recovery.

Government Publication Date: Jul 12, 2022

Land Disposal Sites:

LDS

Land Disposal Sites in GeoTracker, the State Water Resources Control Board (SWRCB)'s data management system. The Land Disposal program regulates of waste discharge to land for treatment, storage and disposal in waste management units. Waste management units include waste piles, surface impoundments, and landfills.

Government Publication Date: Jul 25, 2022

Leaking Underground Fuel Tank Reports:

LUST

List of Leaking Underground Storage Tanks within the Cleanup Sites data in GeoTracker database. GeoTracker is the State Water Resources Control Board's (SWRCB) data management system for managing sites that impact groundwater, especially those that require groundwater cleanup (Underground Storage Tanks, Department of Defense and Site Cleanup Program) as well as permitted facilities such as operating Underground Storage Tanks. The Leak Prevention Program that overlooks LUST sites is the SWRCB in California's Environmental Protection Agency.

Government Publication Date: Jul 25, 2022

Delisted Leaking Storage Tanks:

DELISTED LST

List of Leaking Underground Storage Tanks (LUST) cleanup sites removed from GeoTracker, the State Water Resources Control Board (SWRCB)'s database system, as well as sites removed from the SWRCB's list of UST Case closures.

Permitted Underground Storage Tank (UST) in GeoTracker:

UST

List of Permitted Underground Storage Tank (UST) sites made available by the State Water Resources Control Board (SWRCB) in California's Environmental Protection Agency (EPA).

Government Publication Date: Jul 20, 2022

Proposed Closure of Underground Storage Tank Cases:

UST CLOSURE

List of UST cases that are being considered for closure by either the California Environmental Protection Agency, State Water Resources Control Board or the Executive Director that have been posted for a 60-day public comment period.

Government Publication Date: May 5, 2021

Historical Hazardous Substance Storage Information Database:

HHSS

The Historical Hazardous Substance Storage database contains information collected in the 1980s from facilities that stored hazardous substances. The information was originally collected on paper forms, was later transferred to microfiche, and recently indexed as a searchable database. When using this database, please be aware that it is based upon self-reported information submitted by facilities which has not been independently verified. It is unlikely that every facility responded to the survey and the database should not be expected to be a complete inventory of all facilities that were operating at that time. This database is maintained by the California State Water Resources Control Board's (SWRCB) Geotracker.

Government Publication Date: Aug 27, 2015

Statewide Environmental Evaluation and Planning System:

UST SWEEPS

The Statewide Environmental Evaluation and Planning System (SWEEPS) is a historical listing of active and inactive underground storage tanks made available by the California State Water Resources Control Board (SWRCB).

Government Publication Date: Oct 1, 1994

Aboveground Storage Tanks:

AST

A statewide list from 2009 of aboveground storage tanks (ASTs) made available by the Cal FIRE Office of the State Fire Marshal (OSFM). This list is no longer maintained or updated by the Cal FIRE OSFM.

Government Publication Date: Aug 31, 2009

SWRCB Historical Aboveground Storage Tanks:

AST SWRCB

A list of aboveground storage tanks made available by the California State Water Resources Control Board (SWRCB). Effective January 1, 2008, the Certified Unified Program Agencies (CUPAs) are vested with the responsibility and authority to implement the Aboveground Petroleum Storage Act (APSA).

Government Publication Date: Dec 1, 2007

Oil and Gas Facility Tanks:

TANK OIL GAS

Locations of oil and gas tanks that fall under the jurisdiction of the Geologic Energy Management Division of the California Department of Conservation (CalGEM) (CCR 1760). CalGEM was formerly the Division of Oil, Gas, and Geothermal Resources (DOGGR).

Government Publication Date: Jul 6, 2022

Delisted Storage Tanks:

DELISTED TNK

This database contains a list of storage tank sites that were removed by the State Water Resources Control Board (SWRCB) in California's Environmental Protection Agency (EPA) and the Cal FIRE Office of State Fire Marshal (OSFM).

Government Publication Date: Aug 16, 2022

California Environmental Reporting System (CERS) Tanks:

CERS TANK

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. The CalEPA oversees the statewide implementation of the Unified Program which applies regulatory standards to protect Californians from hazardous waste and materials.

Government Publication Date: Jul 7, 2022

Delisted California Environmental Reporting System (CERS) Tanks:

DELISTED CTNK

This database contains a list of Aboveground Petroleum Storage and Underground Storage Tank sites that were removed from in the California Environmental Protection Agency (CalEPA) Regulated Site Portal.

Government Publication Date: Jul 7, 2022

Historical Hazardous Substance Storage Container Information - Facility Summary:

[HIST TANK](#)

The State Water Resources Control Board maintained the Hazardous Substance Storage Containers listing and inventory in the 1980s. This facility summary lists historic tank sites where the following container types were present: farm motor vehicle fuel tanks; waste tanks; sumps; pits, ponds, lagoons, and others; and all other product tanks. This set, published in May 1988, lists facility and owner information, as well as the number of containers. This data is historic and will not be updated.

Government Publication Date: May 27, 1988

Site Mitigation and Brownfields Reuse Program Facility Sites with Land Use Restrictions:

[LUR](#)

The Department of Toxic Substances Control (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 land use restrictions that are active. Some sites have multiple land use restrictions.

Government Publication Date: May 30, 2022

CALSITES Database:

[CALSITES](#)

This historical database was maintained by the Department of Toxic Substance Control (DTSC) for more than a decade. CALSITES contains information on Brownfield properties with confirmed or potential hazardous contamination. In 2006, DTSC introduced EnviroStor as the latest Brownfields site database.

Government Publication Date: May 1, 2004

Hazardous Waste Management Program Facility Sites with Deed / Land Use Restrictions:

[HLUR](#)

The Department of Toxic Substances Control (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.

Government Publication Date: Feb 18, 2021

Deed Restrictions and Land Use Restrictions:

[DEED](#)

List of Deed Restrictions, Land Use Restrictions and Covenants in GeoTracker made available by the State Water Resources Control Board (SWRCB) in California's Environmental Protection Agency. A deed restriction (land use covenant) may be required to facilitate the remediation of past environmental contamination and to protect human health and the environment by reducing the risk of exposure to residual hazardous materials.

Government Publication Date: Jul 25, 2022

Voluntary Cleanup Program:

[VCP](#)

List of sites in the Voluntary Cleanup Program made available by the Department of Toxic Substances and Control (DTSC). The Voluntary Cleanup Program was designed to respond to lower priority sites. Under the Voluntary Cleanup Program, DTSC enters site-specific agreements with project proponents for DTSC oversight of site assessment, investigation, and/or removal or remediation activities, and the project proponents agree to pay DTSC's reasonable costs for those services.

Government Publication Date: May 30, 2022

GeoTracker Cleanup Program Sites:

[CLEANUP SITES](#)

A list of Cleanup Program sites in the state of California made available by The State Water Resources Control Board (SWRCB) of the California Environmental Protection Agency (EPA). SWRCB tracks leaking underground storage tank cleanups as well as other water board cleanups.

Government Publication Date: Jul 25, 2022

Delisted Cleanup Program Sites:

[DELISTED CLEANUP](#)

A list of Cleanup Program sites which were once included - and have since been removed from - the list of Cleanup Program Sites in GeoTracker. GeoTracker is the State Water Resource Control Boards' data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Government Publication Date: Jul 25, 2022

Delisted County Records:

[DELISTED COUNTY](#)

Records removed from county or CUPA databases. Records may be removed from the county lists made available by the respective county departments because they are inactive, or because they have been deemed to be below reportable thresholds.

Government Publication Date: Sep 19, 2022

Tribal

Leaking Underground Storage Tanks (LUSTs) on Indian Lands:

INDIAN LUST

LUSTs on Tribal/Indian Lands in Region 9, which includes California.

Government Publication Date: Apr 8, 2022

Underground Storage Tanks (USTs) on Indian Lands:

INDIAN UST

USTs on Tribal/Indian Lands in Region 9, which includes California.

Government Publication Date: Apr 8, 2022

Delisted Tribal Leaking Storage Tanks:

DELISTED ILST

Leaking Underground Storage Tank facilities which have been removed from the Regional Tribal LUST lists made available by the EPA.

Government Publication Date: Apr 9, 2022

Delisted Tribal Underground Storage Tanks:

DELISTED IUST

Underground Storage Tank facilities which have been removed from the Regional Tribal UST lists made available by the EPA.

Government Publication Date: Apr 20, 2022

County

Los Angeles County - Site Mitigation List:

SML LA

A Site Mitigation List in the County of Los Angeles. The list is made available by Los Angeles County Fire Department. Site mitigation is handled by the Site Mitigation Unit (SMU) which facilitates completion of site clean-up projects of contaminated sites in an expeditious manner in all cities of the Los Angeles County except El Segundo, Glendale, Long Beach, Santa Fe Springs, and Vernon.

Government Publication Date: May 26, 2021

Los Angeles County - Solid Waste Sites:

SWF LA COUNTY

List of permitted solid waste facilities, closed landfills, historical dumpsites and other solid waste sites in Los Angeles County, made available by the Department of Public Works in Los Angeles County.

Government Publication Date: Aug 5, 2022

Los Angeles County - CUPA Program Records:

CUPA LA COUNTY

A list of inspection and enforcement records for active and inactive CUPA Program facilities, made available by the Health Hazardous Materials Division (HHMD) of the County of Los Angeles Fire Department. Includes Hazardous Materials Business Plan (HMBP), California Accidental Release Prevention Plan (CalARP), Hazardous Waste Generator (HWG), and the Aboveground Petroleum Storage Act Programs (APSA). Inactive programs include facilities that are out of business or no longer regulated by the HHMD.

Government Publication Date: Mar 25, 2020

Los Angeles County - HMS List:

HMS LA

List of sites in the Los Angeles County Department of Public Works Hazardous Materials System (HMS) Database which have or have had permits for Industrial Waste, Underground Storage Tanks, or Stormwater in the county of Los Angeles.

Government Publication Date: Nov 5, 2020

Los Angeles County - Santa Fe Springs Underground Storage Tank:

UST SANTAFESP

A list of registered active Underground Storage Tanks (USTs) in the City of Santa Fe Springs. This list is made available by Santa Fe Springs Department of Fire-Rescue.

Government Publication Date: Feb 11, 2022

Los Angeles County - Long Beach UST List:

UST LONGB

List of registered Underground Storage Tanks (USTs) in the City of Long Beach, Los Angeles County, made available by the Long Beach Certified Unified Program Agency (CUPA). The Long Beach CUPA operates under oversight shared by the Long Beach Fire Department and Health Department.

Government Publication Date: Jul 9, 2018

Los Angeles County - Burbank City CUPA List:

CUPA BURBANK

A list of facilities associated with various Certified Unified Program Agency (CUPA) programs in the City of Burbank. This list is made available by the City of Burbank Fire Department.

Los Angeles County - El Segundo City Underground Storage Tanks List:

[UST ELSEGUNDO](#)

List of registered Underground Storage Tanks (USTs) in the City of El Segundo of Los Angeles County, made available by El Segundo City Fire Department.

Government Publication Date: Jan 17, 2017

Los Angeles County - Santa Monica City Underground Storage Tank List:

[UST SANTA MONICA](#)

A list of registered active Underground Storage Tanks (USTs) in the City of Santa Monica made available by Santa Monica Fire Prevention Division.

Government Publication Date: Dec 3, 2020

Los Angeles County - Santa Monica City Aboveground Storage Tank List:

[AST SANTAMON](#)

List of registered Aboveground Storage Tanks (ASTs) made available by the Santa Monica Fire Department in the City of Santa Monica of Los Angeles County, California.

Government Publication Date: Jan 14, 2022

Los Angeles County - Santa Monica City CUPA Facilities List:

[CUPA SANTAMON](#)

The Santa Monica Fire Department's office maintains a list of CUPA Facilities located in Santa Monica city.

Government Publication Date: Jan 14, 2022

Los Angeles County - Torrance City Underground Storage Tanks:

[UST TORRANCE](#)

A list of registered Underground Storage Tank (UST) sites in Torrance City of Los Angeles County. This list is made available by Torrance City Office of Clerk.

Government Publication Date: Apr 20, 2022

Los Angeles County - Vernon City UST List:

[UST VERNON](#)

A list of Underground Storage Tanks (UST) in Vernon City provided by the Vernon City Fire Department.

Government Publication Date: Aug 25, 2022

Los Angeles County - Vernon City CUPA List:

[CUPA VERNON](#)

The Vernon City Fire Department's office maintains a list of CUPA Facilities located in Vernon city.

Government Publication Date: Aug 25, 2022

Los Angeles County - City of Los Angeles UST List:

[UST LA CITY](#)

A list of active and inactive underground storage tank facilities made available by the Los Angeles Fire Department CUPA.

Government Publication Date: Jan 13, 2022

Los Angeles County - City of Los Angeles AST List:

[AST LA CITY](#)

A list of active and inactive above ground petroleum storage tanks made available by the Los Angeles Fire Department CUPA.

Government Publication Date: Jun 1, 2019

Los Angeles County - City of Los Angeles Hazardous Materials Facilities:

[HAZMAT LA CITY](#)

A list of active and inactive hazardous materials facilities made available by the Los Angeles Fire Department CUPA.

Government Publication Date: Jun 1, 2019

Additional Environmental Record Sources

Federal

Facility Registry Service/Facility Index:

[FINDS/FRS](#)

The Facility Registry Service (FRS) is a centrally managed database that identifies facilities, sites, or places subject to environmental regulations or of environmental interest. FRS creates high-quality, accurate, and authoritative facility identification records through rigorous verification and management procedures that incorporate information from program national systems, state master facility records, and data collected from EPA's Central Data Exchange registrations and data management personnel. This list is made available by the Environmental Protection Agency (US EPA).

Toxics Release Inventory (TRI) Program:

TRIS

The EPA's Toxics Release Inventory (TRI) is a database containing data on disposal or other releases of over 650 toxic chemicals from thousands of U.S. facilities and information about how facilities manage those chemicals through recycling, energy recovery, and treatment. One of TRI's primary purposes is to inform communities about toxic chemical releases to the environment.

Government Publication Date: Aug 24, 2021

Perfluorinated Alkyl Substances (PFAS) Releases:

PFAS TRI

List of Toxics Release Inventory (TRI) facilities at which the reported chemical is a Per- or polyfluorinated alkyl substance (PFAS) included in the Environmental Protection Agency (EPA)'s consolidated PFAS Master List of PFAS Substances. The EPA's Toxics Release Inventory (TRI) is a database containing data on disposal or other releases of over 650 toxic chemicals from thousands of U.S. facilities and information about how facilities manage those chemicals through recycling, energy recovery, and treatment.

Government Publication Date: Aug 24, 2021

PFOA/PFOS Contaminated Sites:

PFAS NPL

List of National Priorities List (NPL) and related Superfund Alternative Agreement (SAA) sites where PFOA or PFOS contaminants have been found in water and/or soil. The site listing is provided by the Federal Environmental Protection Agency (EPA).

Government Publication Date: Jul 18, 2022

Perfluorinated Alkyl Substances (PFAS) Water Quality:

PFAS WATER

The Water Quality Portal (WQP) is a cooperative service sponsored by the United States Geological Survey (USGS), the Environmental Protection Agency (EPA), and the National Water Quality Monitoring Council (NWQMC). This listing includes records from the Water Quality Portal where the characteristic (environmental measurement) is in the Environmental Protection Agency (EPA)'s consolidated PFAS Master List of PFAS Substances.

Government Publication Date: Jul 20, 2020

SSEHRI PFAS Contamination Sites:

PFAS SSEHRI

This PFAS Contamination Site Tracker database is compiled by the Social Science Environmental Health Research Institute (SSEHRI) at Northeastern University. According to the SSEHRI, the database records qualitative and quantitative data from each known site of PFAS contamination, including timeline of discovery, sources, levels, health impacts, community response, and government response. The goal of this database is to compile information and support public understanding of the rapidly unfolding issue of PFAS contamination. All data presented was extracted from government websites, news articles, or publicly available documents, and this is cited in the tracker. Disclaimer: The source conveys this database undergoes regular updates as new information becomes available, some sites may be missing and/or contain information that is incorrect or outdated, as well as their information represents all contamination sites SSEHRI is aware of, not all possible contamination sites. This data is not intended to be used for legal purposes. Limited location details are available with this data. Access the following for the most current informations <https://pfasproject.com/pfas-contamination-site-tracker/>

Government Publication Date: Dec 12, 2019

National Response Center PFAS Spills:

ERNS PFAS

National Response Center (NRC) calls from 1990 to the most recent complete calendar year where there is indication of Aqueous Film Forming Foam (AFFF) usage. NRC calls may reference AFFF usage in the "Material Involved" or "Incident Description" fields. Data made available by the US Environmental Protection Agency (EPA). Disclaimer: dataset may include initial or misidentified incident data not yet validated or investigated by a federal/state response agency.

Government Publication Date: Feb 23, 2022

Hazardous Materials Information Reporting System:

HMIRS

US DOT - Department of Transportation Pipeline and Hazardous Materials Safety Administration (PHMSA) Incidents Reports Database taken from Hazmat Intelligence Portal, U.S. Department of Transportation.

Government Publication Date: Sep 1, 2020

National Clandestine Drug Labs:

NCDL

The U.S. Department of Justice ("the Department") provides this data 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.

Government Publication Date: Apr 30, 2022

Toxic Substances Control Act:

TSCA

The Environmental Protection Agency (EPA) is amending the Toxic Substances Control Act (TSCA) section 8(a) Inventory Update Reporting (IUR) rule and changing its name to the Chemical Data Reporting (CDR) rule.

The CDR enables EPA to collect and publish information on the manufacturing, processing, and use of commercial chemical substances and mixtures (referred to hereafter as chemical substances) on the TSCA Chemical Substance Inventory (TSCA Inventory). This includes current information on chemical substance production volumes, manufacturing sites, and how the chemical substances are used. This information helps the Agency determine whether people or the environment are potentially exposed to reported chemical substances. EPA publishes submitted CDR data that is not Confidential Business Information (CBI).

Government Publication Date: Apr 11, 2019

Hist TSCA:

[HIST TSCA](#)

The Environmental Protection Agency (EPA) is amending the Toxic Substances Control Act (TSCA) section 8(a) Inventory Update Reporting (IUR) rule and changing its name to the Chemical Data Reporting (CDR) rule.

The 2006 IUR data summary report includes information about chemicals manufactured or imported in quantities of 25,000 pounds or more at a single site during calendar year 2005. In addition to the basic manufacturing information collected in previous reporting cycles, the 2006 cycle is the first time EPA collected information to characterize exposure during manufacturing, processing and use of organic chemicals. The 2006 cycle also is the first time manufacturers of inorganic chemicals were required to report basic manufacturing information.

Government Publication Date: Dec 31, 2006

FTTS Administrative Case Listing:

[FTTS ADMIN](#)

An administrative case listing from the Federal Insecticide, Fungicide, & Rodenticide Act (FIFRA) and Toxic Substances Control Act (TSCA), together known as FTTS. This database was obtained from the Environmental Protection Agency's (EPA) National Compliance Database (NCDB). The FTTS and NCDB was shut down in 2006.

Government Publication Date: Jan 19, 2007

FTTS Inspection Case Listing:

[FTTS INSP](#)

An inspection case listing from the Federal Insecticide, Fungicide, & Rodenticide Act (FIFRA) and Toxic Substances Control Act (TSCA), together known as FTTS. This database was obtained from the Environmental Protection Agency's (EPA) National Compliance Database (NCDB). The FTTS and NCDB was shut down in 2006.

Government Publication Date: Jan 19, 2007

Potentially Responsible Parties List:

[PRP](#)

Early in the cleanup process, the Environmental Protection Agency (EPA) conducts a search to find the potentially responsible parties (PRPs). EPA looks for evidence to determine liability by matching wastes found at the site with parties that may have contributed wastes to the site.

Government Publication Date: Jul 26, 2022

State Coalition for Remediation of Drycleaners Listing:

[SCRD DRYCLEANER](#)

The State Coalition for Remediation of Drycleaners (SCRD) was established in 1998, with support from the U.S. Environmental Protection Agency (EPA) Office of Superfund Remediation and Technology Innovation. Coalition members are states with mandated programs and funding for drycleaner site remediation. Current members are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin. Since 2017, the SCRD no longer maintains this data, refer to applicable state source data where available.

Government Publication Date: Nov 08, 2017

Integrated Compliance Information System (ICIS):

[ICIS](#)

The Integrated Compliance Information System (ICIS) is a system that provides information for the Federal Enforcement and Compliance (FE&C) and the National Pollutant Discharge Elimination System (NPDES) programs. The FE&C component supports the Environmental Protection Agency's (EPA) Civil Enforcement and Compliance program activities. These activities include Compliance Assistance, Compliance Monitoring and Enforcement. The NPDES program supports tracking of NPDES permits, limits, discharge monitoring data and other program reports.

Government Publication Date: Apr 30, 2022

Drycleaner Facilities:

[FED DRYCLEANERS](#)

A list of drycleaner facilities from Enforcement and Compliance History Online (ECHO) online search. The Environmental Protection Agency (EPA) tracks facilities that possess NAIC and SIC codes that classify businesses as drycleaner establishments.

Government Publication Date: Jun 25, 2022

Delisted Drycleaner Facilities:

[DELISTED FED DRY](#)

List of sites removed from the list of Drycleaner Facilities (sites in the EPA's Integrated Compliance Information System (ICIS) with NAIC or SIC codes identifying the business as a drycleaner establishment).

Government Publication Date: Jun 25, 2022

Formerly Used Defense Sites:

FUDS

Formerly Used Defense Sites (FUDS) are properties that were formerly owned by, leased to, or otherwise possessed by and under the jurisdiction of the Secretary of Defense prior to October 1986, where the Department of Defense (DoD) is responsible for an environmental restoration. This list is published by the U.S. Army Corps of Engineers.

Government Publication Date: May 26, 2021

Former Military Nike Missile Sites:

FORMER NIKE

This information was taken from report DRXTH-AS-IA-83A016 (Historical Overview of the Nike Missile System, 12/1984) which was performed by Environmental Science and Engineering, Inc. for the U.S. Army Toxic and Hazardous Materials Agency Assessment Division. The Nike system was deployed between 1954 and the mid-1970's. Among the substances used or stored on Nike sites were liquid missile fuel (JP-4); starter fluids (UDKH, aniline, and furfuryl alcohol); oxidizer (IRFNA); hydrocarbons (motor oil, hydraulic fluid, diesel fuel, gasoline, heating oil); solvents (carbon tetrachloride, trichloroethylene, trichloroethane, stoddard solvent); and battery electrolyte. The quantities of material disposed of and procedures for disposal are not documented in published reports. Virtually all information concerning the potential for contamination at Nike sites is confined to personnel who were assigned to Nike sites. During deactivation most hardware was shipped to depot-level supply points. There were reportedly instances where excess materials were disposed of on or near the site itself at closure. There was reportedly no routine site decontamination.

Government Publication Date: Dec 2, 1984

PHMSA Pipeline Safety Flagged Incidents:

PIPELINE INCIDENT

A list of flagged pipeline incidents made available by the U.S. Department of Transportation (US DOT) Pipeline and Hazardous Materials Safety Administration (PHMSA). PHMSA regulations require incident and accident reports for five different pipeline system types.

Government Publication Date: Jul 7, 2020

Material Licensing Tracking System (MLTS):

MLTS

A list of sites that store radioactive material subject to the Nuclear Regulatory Commission (NRC) licensing requirements. This list is maintained by the NRC. As of September 2016, the NRC no longer releases location information for sites. Site locations were last received in July 2016.

Government Publication Date: May 11, 2021

Historic Material Licensing Tracking System (MLTS) sites:

HIST MLTS

A historic list of sites that have inactive licenses and/or removed from the Material Licensing Tracking System (MLTS). In some cases, a site is removed from the MLTS when the state becomes an "Agreement State". An Agreement State is a State that has signed an agreement with the Nuclear Regulatory Commission (NRC) authorizing the State to regulate certain uses of radioactive materials within the State.

Government Publication Date: Jan 31, 2010

Mines Master Index File:

MINES

The Master Index File (MIF) is provided by the United State Department of Labor, Mine Safety and Health Administration (MSHA). This file, which was originally created in the 1970's, contained many Mine-IDs that were invalid. MSHA removes invalid IDs from the MIF upon discovery. MSHA applicable data includes the following: all Coal and Metal/Non-Metal mines under MSHA's jurisdiction since 1/1/1970; mine addresses for all mines in the database except for Abandoned mines prior to 1998 from MSHA's legacy system (addresses may or may not correspond with the physical location of the mine itself); violations that have been assessed penalties as a result of MSHA inspections beginning on 1/1/2000; and violations issued as a result of MSHA inspections conducted beginning on 1/1/2000.

Government Publication Date: Aug 3, 2022

Surface Mining Control and Reclamation Act Sites:

SMCRA

An inventory of land and water impacted by past mining (primarily coal mining) is maintained by the Office of Surface Mining Reclamation and Enforcement (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 Abandoned Mine Land (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.

Government Publication Date: Aug 18, 2022

Mineral Resource Data System:

MRDS

The Mineral Resource Data System (MRDS) is a collection of reports describing metallic and nonmetallic mineral resources throughout the world. Included are deposit name, location, commodity, deposit description, geologic characteristics, production, reserves, resources, and references. This database contains the records previously provided in the Mineral Resource Data System (MRDS) of USGS and the Mineral Availability System/Mineral Industry Locator System (MAS/MILS) originated in the U.S. Bureau of Mines, which is now part of USGS. The USGS has ceased systematic updates of the MRDS database with their focus more recently on deposits of critical minerals while providing a well-documented baseline of historical mine locations from USGS topographic maps.

Government Publication Date: Mar 15, 2016

Uranium Mill Tailings Radiation Control Act Sites:

URANIUM

The Legacy Management Office of the Department of Energy (DOE) manages radioactive and chemical waste, environmental contamination, and hazardous material at over 100 sites across the U.S. The L.M. Office manages this database of sites registered under the Uranium Mill Tailings Control Act (UMTRCA).

Government Publication Date: Mar 4, 2017

Alternative Fueling Stations:

ALT FUELS

List of alternative fueling stations made available by the US Department of Energy's Office of Energy Efficiency & Renewable Energy. Includes Biodiesel stations, Ethanol (E85) stations, Liquefied Petroleum Gas (Propane) stations, Ethanol (E85) stations, Natural Gas stations, Hydrogen stations, and Electric Vehicle Supply Equipment (EVSE). The National Renewable Energy Laboratory (NREL) obtains information about new stations from trade media, Clean Cities coordinators, a Submit New Station form on the Station Locator website, and through collaborating with infrastructure equipment and fuel providers, original equipment manufacturers (OEMs), and industry groups.

Government Publication Date: Aug 1, 2022

Superfunds Consent Decrees:

CONSENT DECREES

A list of Superfund consent decrees made available by the Department of Justice, Environment & Natural Resources Division (ENRD).

Government Publication Date: May 18, 2022

Air Facility System:

AFS

This EPA retired Air Facility System (AFS) dataset contains emissions, compliance, and enforcement data on stationary sources of air pollution. Regulated sources cover a wide spectrum; from large industrial facilities to relatively small operations such as dry cleaners. AFS does not contain data on facilities that are solely asbestos demolition and/or renovation contractors, or landfills. ECHO Clean Air Act data from AFS are frozen and reflect data as of October 17, 2014; the EPA retired this system for Clean Air Act stationary sources and transitioned to ICIS-Air.

Government Publication Date: Oct 17, 2014

Registered Pesticide Establishments:

SSTS

List of active EPA-registered foreign and domestic pesticide-producing and device-producing establishments based on data from the Section Seven Tracking System (SSTS). The Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Section 7 requires that facilities producing pesticides, active ingredients, or devices be registered. The list of establishments is made available by the EPA.

Government Publication Date: Mar 30, 2022

Polychlorinated Biphenyl (PCB) Transformers:

PCBT

Locations of Transformers Containing Polychlorinated Biphenyls (PCBs) registered with the United States Environmental Protection Agency. PCB transformer owners must register their transformer(s) with EPA. Although not required, PCB transformer owners who have removed and properly disposed of a registered PCB transformer may notify EPA to have their PCB transformer de-registered. Data made available by EPA.

Government Publication Date: Oct 15, 2019

Polychlorinated Biphenyl (PCB) Notifiers:

PCB

Facilities included in the national list of facilities that have notified the United States Environmental Protection Agency (EPA) of Polychlorinated Biphenyl (PCB) activities. Any company or person storing, transporting or disposing of PCBs or conducting PCB research and development must notify the EPA and receive an identification number.

Government Publication Date: Jul 28, 2022

State**Dry Cleaning Facilities:**

DRYCLEANERS

A list of drycleaner related facilities that have EPA ID numbers. These are facilities with certain SIC codes: power laundries, family and commercial, linen supply, commercial laundry, dry cleaning and pressing machines - Coin Operated Laundry and Dry Cleaning. This is provided by the Department of Toxic Substance Control.

Government Publication Date: Dec 20, 2021

Delisted Drycleaners:

DELISTED DRYCLEANERS

Sites removed from the list of drycleaner related facilities that have EPA ID numbers, made available by the California Department of Toxic Substance Control.

Government Publication Date: Feb 28, 2020

Non-Toxic Dry Cleaning Incentive Program:

DRYC GRANT

A list of grant recipients of the Non-Toxic Dry Cleaning Incentive Program made available by the California Air Resources Board (CARB). The program provides grants to eligible dry cleaning businesses to assist them in transitioning away from PERC machines to alternative non-toxic and non-smog forming technologies.

Government Publication Date: Feb 28, 2020

Per- and Polyfluoroalkyl Substances (PFAS):

PFAS

List of sites from the State Water Resources Control Board (SWRCB)'s GeoTracker at which one or more of the potential contaminants of concern are in the PFAS Master List of PFAS Substances made available by the Environmental Protection Agency (US EPA).

Government Publication Date: Feb 15, 2022

PFOA/PFOS Groundwater:

PFAS GW

A list of water wells from the Groundwater Ambient Monitoring and Assessment Program (GAMA) Groundwater Information System with the groundwater chemical perfluorooctanoic acid (PFOA) (NL = 0.014 UG/L) or perfluorooctanoic sulfonate (PFOS) (NL = 0.013 UG/L). The GAMA Groundwater Information System search is made available by California Water Boards.

Government Publication Date: Aug 27, 2022

Hazardous Waste and Substances Site List - Site Cleanup:

HWSS CLEANUP

The Hazardous Waste and Substances Sites (Cortese) List is a planning document used by the State, local agencies and developers to comply with the California Environmental Quality Act requirements in providing information about the location of hazardous materials release sites. This list is published by California Department of Toxic Substance Control.

Government Publication Date: May 20, 2021

Toxic Pit Cleanup Act Sites:

TOXIC PITS

The Toxic Pits Cleanup Act (TPCA) list identifies sites suspected of containing hazardous substances where cleanup has not yet been completed. This list was maintained by the State Water Resources Control Board (SWRCB), is not longer maintained, and updates are not planned.

Government Publication Date: Jul 1, 1995

List of Hazardous Waste Facilities Subject to Corrective Action:

DTSC HWF

This is a list of hazardous waste facilities identified in Health and Safety Code (HSC) § 25187.5. These facilities are those where Department of Toxic Substances Control (DTSC) has taken or contracted for corrective action because a facility owner/operator has failed to comply with a date for taking corrective action in an order issued under HSC § 25187, or because DTSC determined that immediate corrective action was necessary to abate an imminent or substantial endangerment.

Government Publication Date: Jul 18, 2016

EnviroStor Inspection, Compliance, and Enforcement:

INSP COMP ENF

A list of permitted facilities with inspections and enforcements tracked in the Department of Toxic Substance Control (DTSC) EnviroStor.

Government Publication Date: Apr 29, 2021

School Property Evaluation Program Sites:

SCH

A list of sites registered with The Department of Toxic Substances Control (DTSC) School Property Evaluation and Cleanup (SPEC) Division. SPEC is responsible for assessing, investigating and cleaning up proposed school sites. The Division ensures that selected properties are free of contamination or, if the properties were previously contaminated, that they have been cleaned up to a level that protects the students and staff who will occupy the new school.

Government Publication Date: May 30, 2022

California Hazardous Material Incident Report System (CHMIRS):

CHMIRS

A list of reported hazardous material incidents, spills, and releases from the California Hazardous Material Incident Report System (CHMIRS). This list has been made available by the California Office of Emergency Services (OES).

Government Publication Date: May 31, 2022

Historical California Hazardous Material Incident Report System (CHMIRS):

HIST CHMIRS

A list of reported hazardous material incidents, spills, and releases from the California Hazardous Material Incident Report System (CHMIRS) prior to 1993. This list has been made available by the California Office of Emergency Services (OES).

Government Publication Date: Jan 1, 1993

Handlers from Hazardous Waste Manifest Data:

HAZNET

A list of handlers not otherwise classified as Treatment, Storage, Disposal facilities (TSDF) or generators from the facilities and manifests data made available by the California Department of Toxic Substances Control (DTSC) in their Hazardous Waste Tracking System (HWTS).

Government Publication Date: Oct 24, 2016

Generators from Hazardous Waste Manifest Data:

HAZ GEN

List of handlers listed as having generated waste from the facilities and manifests data made available by the California Department of Toxic Substances Control (DTSC) in their Hazardous Waste Tracking System (HWTS).

Government Publication Date: Dec 31, 2017

TSDF from Hazardous Waste Manifest Data:

HAZ TSD

List of Treatment, Storage, and Disposal Facilities (TSDFs) from the facilities and manifests data made available by the California Department of Toxic Substances Control (DTSC) in their Hazardous Waste Tracking System (HWTS).

Government Publication Date: Dec 31, 2017

Historical Hazardous Waste Manifest Data:

HIST MANIFEST

A list of historic hazardous waste manifests received by the Department of Toxic Substances Control (DTSC) from year the 1980 to 1992. The volume of manifests is typically 900,000 - 1,000,000 annually, representing approximately 450,000 - 500,000 shipments.

Government Publication Date: Dec 31, 1992

DTSC Registered Hazardous Waste Transporters:

HW TRANSPORT

The California Department of Toxic Substances Control (DTSC) maintains this list of Registered Hazardous Waste Transporters.

Government Publication Date: Sep 6, 2022

Registered Waste Tire Haulers:

WASTE TIRE

This list of registered waste tire haulers is maintained by the California Department of Resources Recycling and Recovery.

Government Publication Date: Jul 12, 2022

California Medical Waste Management Program Facility List:

MEDICAL WASTE

This list of Medical Waste Management Program Facilities is maintained by the California Department of Public Health. The Medical Waste Management Program (MWMP) regulates the generation, handling, storage, treatment, and disposal of medical waste by providing oversight for the implementation of the Medical Waste Management Act (MWMA). The MWMP permits and inspects all medical waste off-site treatment facilities, medical waste transporters, and medical waste transfer stations. This list contains transporters, treatment, and transfer facilities.

Government Publication Date: Aug 8, 2022

Historical Cortese List:

HIST CORTESE

List of sites which were once included on the Cortese list. The Hazardous Waste and Substances Sites (Cortese) List is a planning document used by the State, local agencies and developers to comply with the California Environmental Quality Act requirements for providing information about the location of hazardous sites.

Government Publication Date: Nov 13, 2008

Cease and Desist Orders and Cleanup and Abatement Orders:

CDO/CAO

The California Environment Protection Agency "Cortese List" of active Cease and Desist Orders (CDO) and Cleanup and Abatement Orders (CAO). This list contains many CDOs and CAOs that do NOT concern the discharge of wastes that are hazardous materials. Many of the listed orders concern, as examples, discharges of domestic sewage, food processing wastes, or sediment that do not contain hazardous materials, but the Water Boards' database does not distinguish between these types of orders.

Government Publication Date: Dec 6, 2021

California Environmental Reporting System (CERS) Hazardous Waste Sites:

CERS HAZ

List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the following regulatory programs: Hazardous Chemical Management, Hazardous Waste Onsite Treatment, Household Hazardous Waste Collection, Hazardous Waste Generator, RCRA LQ HW Generator. The CalEPA oversees the statewide implementation of the Unified Program which applies regulatory standards to protect Californians from hazardous waste and materials.

Government Publication Date: Jul 7, 2022

Delisted Environmental Reporting System (CERS) Hazardous Waste Sites:

DELISTED HAZ

This database contains a list of sites that were removed from the California Environmental Protection Agency (CalEPA) in the following regulatory programs: Hazardous Chemical Management, Hazardous Waste Onsite Treatment, Household Hazardous Waste Collection, Hazardous Waste Generator, RCRA LQ HW Generator.

Sites in GeoTracker:

[GEOTRACKER](#)

GeoTracker is the State Water Resource Control Boards' data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater. This is a list of sites in GeoTracker that aren't otherwise categorized as LUST, Land Disposal Sites (LDS), Cleanup Sites, or sites having Waste Discharge Requirements (WDR). This listing includes program types such as Underground Injection Control (UIC), Confined Animal Facilities (CAF), Irrigated Lands Regulatory Program, plans, and non-case information.

Government Publication Date: Jul 25, 2022

Mines Listing:

[MINE](#)

This list includes mine site locations extracted from the Mines Online database, maintained by the California Department of Conservation. Mines Online (MOL) is an interactive web map designed with GIS features that provide information such as the mine name, mine status, commodity sold, location, and other mine specific data. Please note: Mine location information is provided to assist experts in determining the location of mine operators in accordance with California Civil Code section 1103.4 and reflects information reported by mine operators in annual reports provided under Public Resources Code section 2207. While the Division of Mine Reclamation (DMR) attempts to populate MOL with accurate location information, the DMR cannot guarantee the accuracy of operator reported location information.

Government Publication Date: Jun 23, 2022

Recorded Environmental Cleanup Liens:

[LIEN](#)

The California Department of Toxic Substance Control (DTSC) maintains this list of liens placed upon real properties. A lien is utilized by the DTSC to obtain reimbursement from responsible parties for costs associated with the remediation of contaminated properties.

Government Publication Date: Aug 3, 2022

Waste Discharge Requirements:

[WASTE DISCHG](#)

List of sites in California State Water Resources Control Board (SWRCB) Waste Discharge Requirements (WDRs) Program in California, made available by the SWRCB via GeoTracker. The WDR program regulates point discharges that are exempt pursuant to Subsection 20090 of Title 27 and not subject to the Federal Water Pollution Control Act. The scope of the WDRs Program also includes the discharge of wastes classified as inert, pursuant to section 20230 of Title 27.

Government Publication Date: Jul 25, 2022

Toxic Pollutant Emissions Facilities:

[EMISSIONS](#)

A list of criteria and toxic pollutant emissions data for facilities in California made available by the California Environmental Protection Agency - Air Resources Board (ARB). Risk data may be based on previous inventory submittals. The toxics data are submitted to the ARB by the local air districts as requirement of the Air Toxics "Hot Spots" Program. This program requires emission inventory updates every four years.

Government Publication Date: Dec 31, 2020

Clandestine Drug Lab Sites:

[CDL](#)

The Department of Toxic Substances Control (DTSC) maintains a listing of drug lab sites. DTSC is responsible for removal and disposal of hazardous substances discovered by law enforcement officials while investigating illegal/ clandestine drug laboratories.

Government Publication Date: Jan 19, 2021

Tribal

No Tribal additional environmental record sources available for this State.

County

Los Angeles County - Santa Monica City Hazardous Materials Facilities:

[HAZMAT SANTAMON](#)

A list of Hazardous Materials Facilities in the City of Santa Monica, Los Angeles county. This list is made available by Santa Monica Fire Prevention Division which has been designated as the CUPA for the City.

Government Publication Date: Dec 17, 2021

Los Angeles County - Santa Monica City Hazardous Waste Facilities:

[HAZ WST SANTAMON](#)

A list of Hazardous Waste Facilities in Los Angeles County, City of Santa Monica. This list is made available by Santa Monica Fire Prevention Division.

Government Publication Date: Jan 14, 2022

Definitions

Database Descriptions: This section provides a detailed explanation for each database including: source, information available, time coverage, and acronyms used. They are listed in alphabetic order.

Detail Report: This is the section of the report which provides the most detail for each individual record. Records are summarized by location, starting with the project property followed by records in closest proximity.

Distance: The distance value is the distance between plotted points, not necessarily the distance between the sites' boundaries. All values are an approximation.

Direction: The direction value is the compass direction of the site in respect to the project property and/or center point of the report.

Elevation: The elevation value is taken from the location at which the records for the site address have been plotted. All values are an approximation. Source: Google Elevation API.

Executive Summary: This portion of the report is divided into 3 sections:

'Report Summary'- Displays a chart indicating how many records fall on the project property and, within the report search radii.

'Site Report Summary'-Project Property'- This section lists all the records which fall on the project property. For more details, see the 'Detail Report' section.

'Site Report Summary-Surrounding Properties'- This section summarizes all records on adjacent properties, listing them in order of proximity from the project property. For more details, see the 'Detail Report' section.

Map Key: The map key number is assigned according to closest proximity from the project property. Map Key numbers always start at #1. The project property will always have a map key of '1' if records are available. If there is a number in brackets beside the main number, this will indicate the number of records on that specific property. If there is no number in brackets, there is only one record for that property.

The symbol and colour used indicates 'elevation': the red inverted triangle will dictate 'ERIS Sites with Lower Elevation', the yellow triangle will dictate 'ERIS Sites with Higher Elevation' and the orange square will dictate 'ERIS Sites with Same Elevation.'

Unplottables: These are records that could not be mapped due to various reasons, including limited geographic information. These records may or may not be in your study area, and are included as reference.



Property Information

Order Number: 22100300833p
Date Completed: October 4, 2022
Project Number: 22-388018.1
Project Property: Hu and Garces
APN 3203-034-010 & 3203-034-011 LANCASTER CA 93536
Coordinates:
Latitude: 34.68293192
Longitude: -118.2914621
UTM Northing: 3838641.11187 Meters
UTM Easting: 381695.606994 Meters
UTM Zone: UTM Zone 11S
Elevation: 2,442.89 ft
Slope Direction: NNE

Topographic Information.....	2
Hydrologic Information.....	4
Geologic Information.....	7
Soil Information.....	9
Wells and Additional Sources.....	13
Summary.....	14
Detail Report.....	16
Radon Information.....	55
Appendix.....	56
Liability Notice.....	58

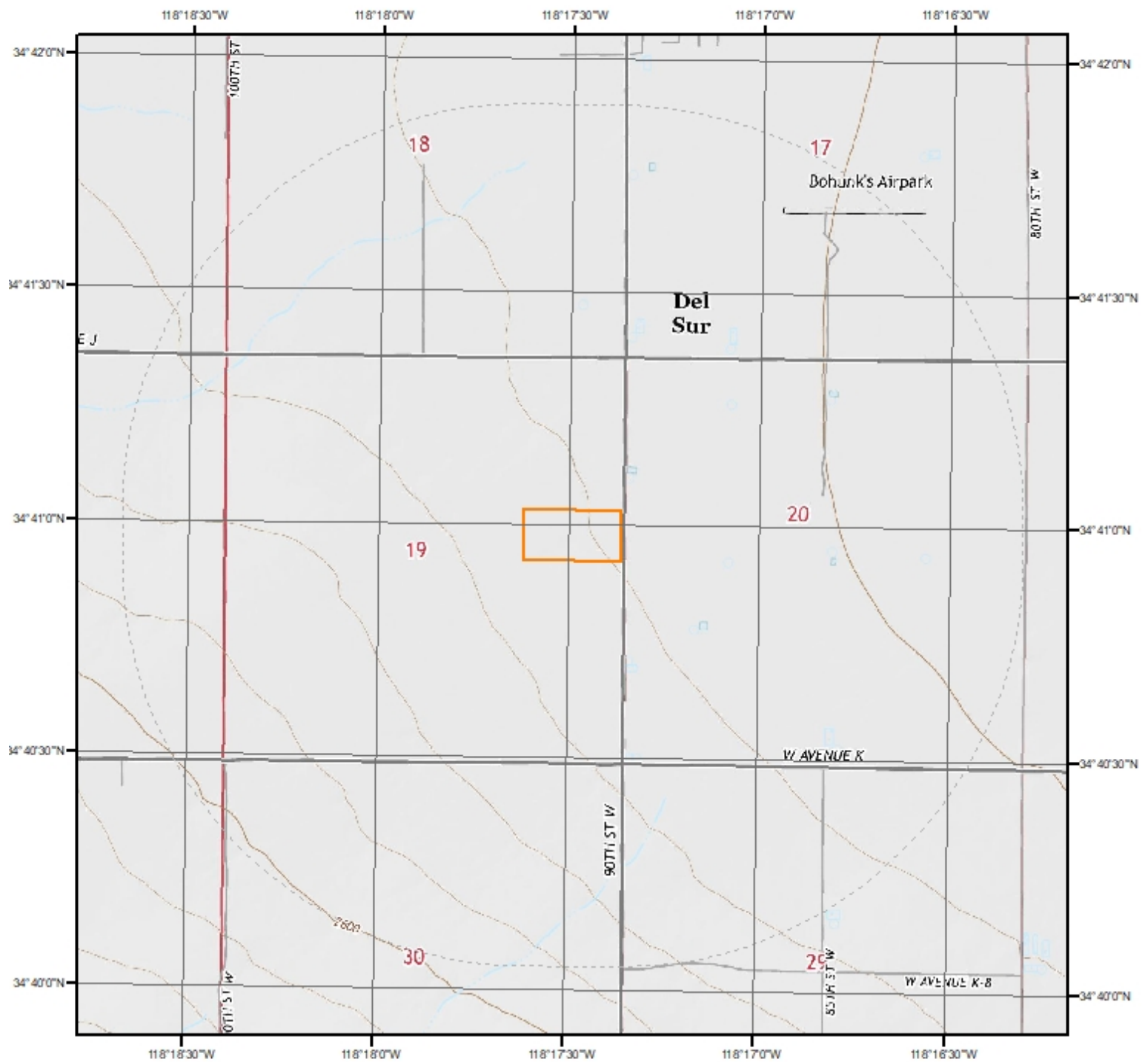
The ERIS **Physical Setting Report - PSR** provides comprehensive information about the physical setting around a site and includes a complete overview of topography and surface topology, in addition to hydrologic, geologic and soil characteristics. The location and detailed attributes of oil and gas wells, water wells, public water systems and radon are also included for review.

The compilation of both physical characteristics of a site and additional attribute data is useful in assessing the impact of migration of contaminants and subsequent impact on soils and groundwater.

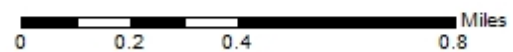
Disclaimer

This Report does not provide a full environmental evaluation for the site or adjacent properties. Please see the terms and disclaimer at the end of the Report for greater detail.

Topographic Information



Current USGS Topo (2015)



Quadrangle(s): Del Sur, CA

Source: USGS 7.5 Minute Topographic Map

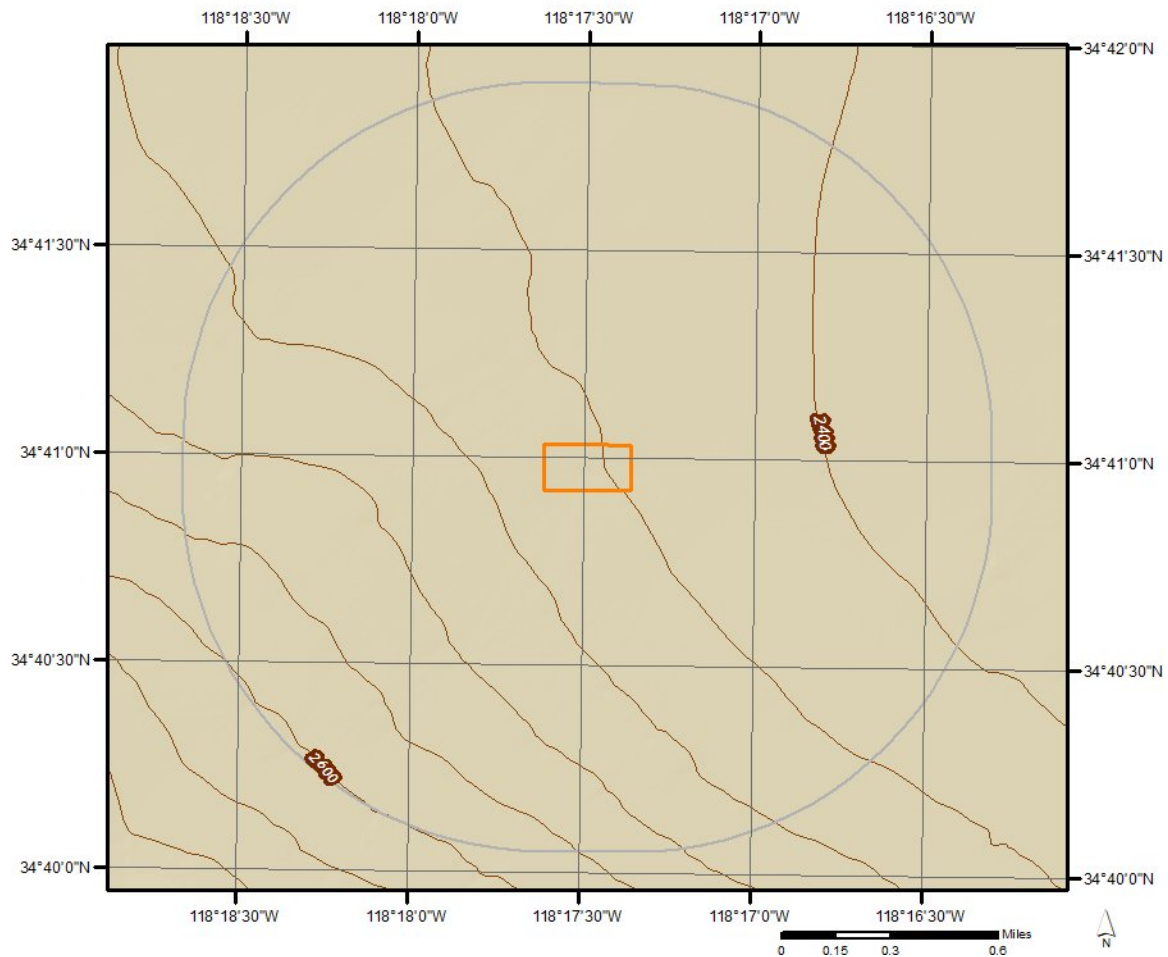


Topographic Information

The previous topographic map(s) are created by seamlessly merging and cutting current USGS topographic data. Below are shaded relief map(s), derived from USGS elevation data to show surrounding topography in further detail.

Topographic information at project property:

Elevation: 2,442.89 ft
Slope Direction: NNE



Hydrologic Information



Wetland

0 0.075 0.15 0.3 Miles



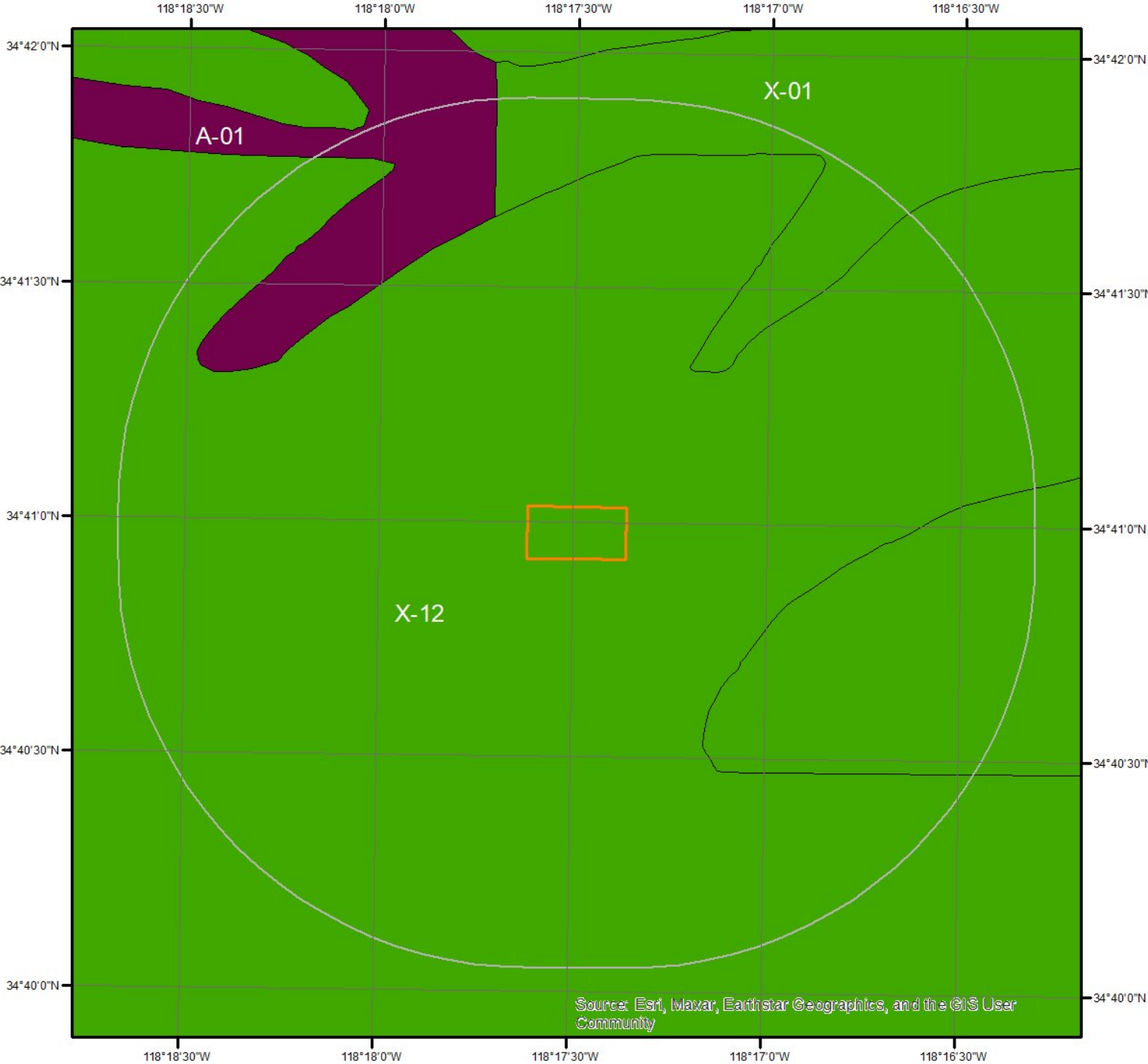
This map shows wetland existence using data from US Fish & Wildlife. Data coverage is shown to the right. Gray indicates no data available in the area.

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland

- Freshwater Pond
- Lake
- Other
- Riverine














Hydrologic Information

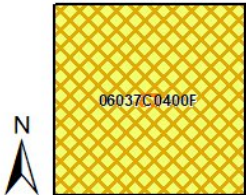


Flood Hazard Zones

This map shows FEMA flood hazard zones. FIRM panels are shown to the right, and blank indicates no data is available.

	A		AO		X
	A99		V		OPEN WATER
	AE		VE		NOT POPULATED
	AH		D		AREA NOT INCLUDED

Quadrangle(s): Del Sur, CA



Hydrologic Information

The Wetland Type map shows wetland existence overlaid on an aerial imagery. The Flood Hazard Zones map shows FEMA flood hazard zones overlaid on an aerial imagery. Relevant FIRM panels and detailed zone information is provided below. For detailed Zone descriptions please click the link: <https://floodadvocate.com/fema-zone-definitions>

Available FIRM Panels in area:	06037C0400F(effective:2008-09-26)
--------------------------------	-----------------------------------

Flood Zone A-01

Zone:	A
Zone subtype:	

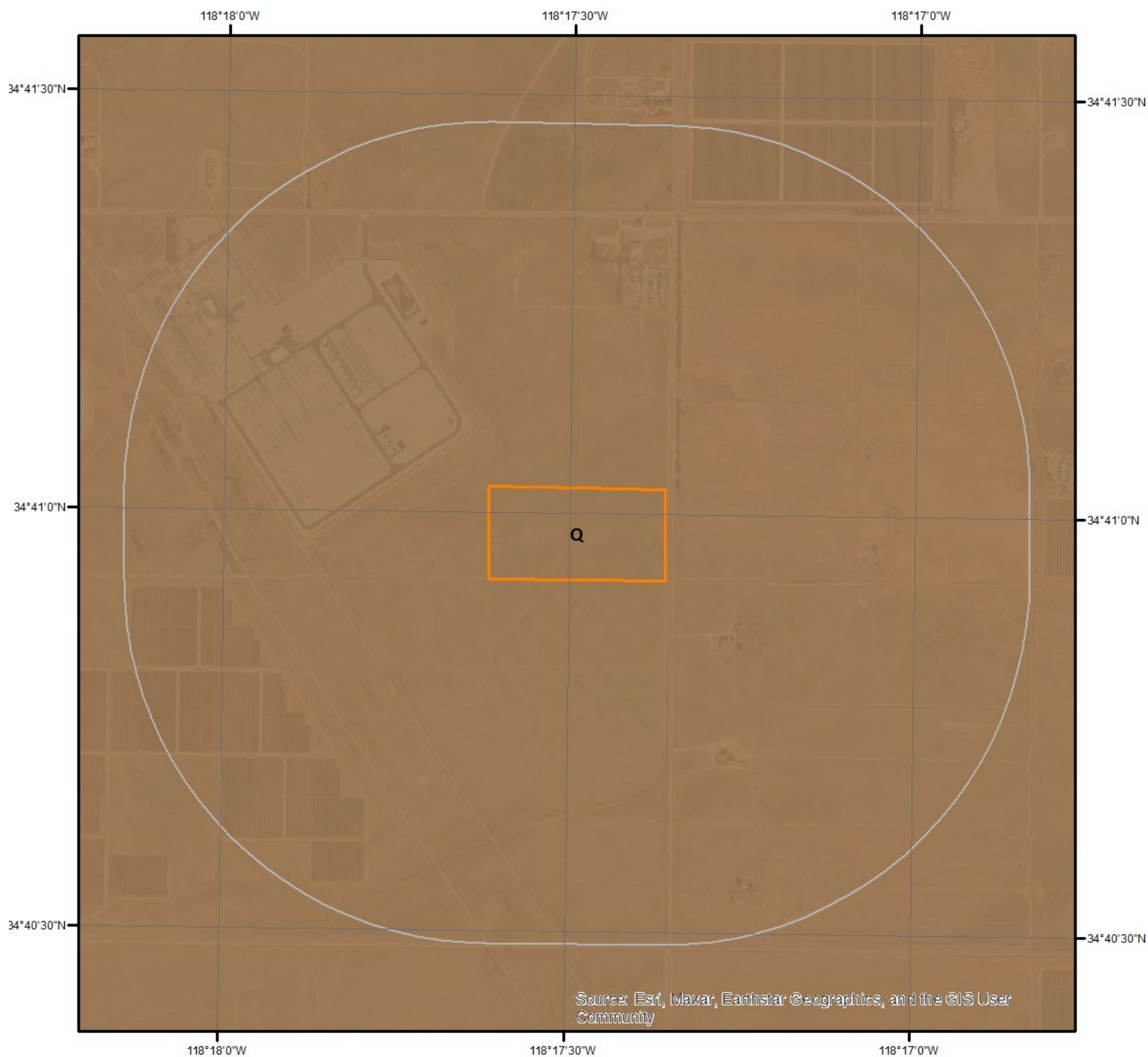
Flood Zone X-01

Zone:	X
Zone subtype:	0.2 PCT ANNUAL CHANCE FLOOD HAZARD

Flood Zone X-12

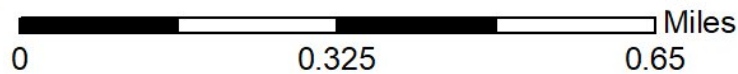
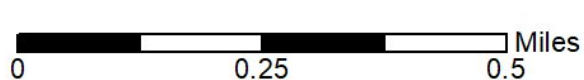
Zone:	X
Zone subtype:	AREA OF MINIMAL FLOOD HAZARD

Geologic Information



Geologic Units

This maps shows geologic units in the area. Please refer to the report for detailed descriptions.



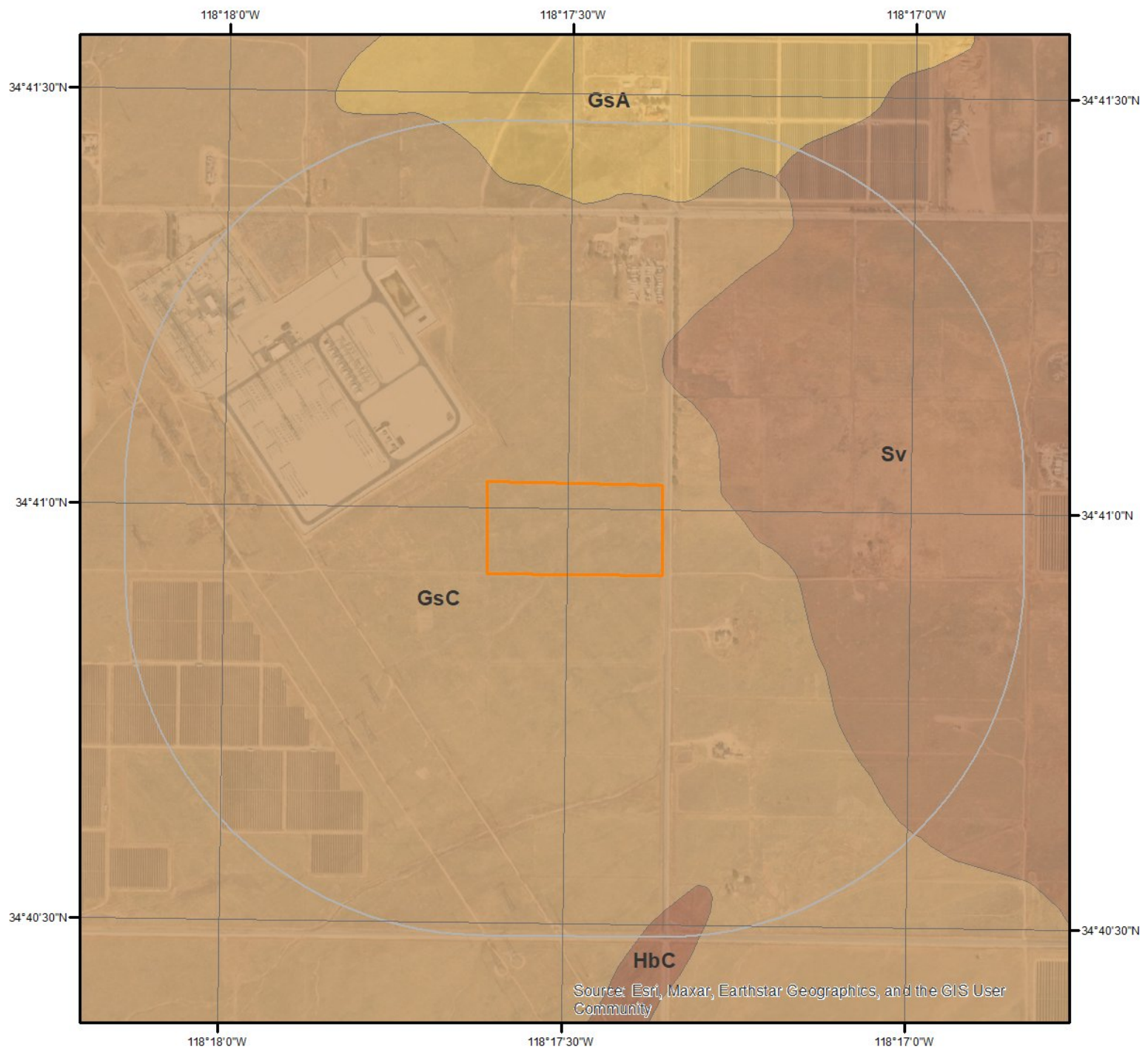
Geologic Information

The previous page shows USGS geology information. Detailed information about each unit is provided below.

Geologic Unit Q

Unit Name:	Quaternary alluvium and marine deposits
Unit Age:	Pliocene to Holocene
Primary Rock Type:	alluvium
Secondary Rock Type:	terrace
Unit Description:	Alluvium, lake, playa, and terrace deposits; unconsolidated and semi-consolidated. Mostly nonmarine, but includes marine deposits near the coast.

Soil Information



SSURGO Soils



This maps shows SSURGO soil units around the target property. Please refer to the report for detailed soil descriptions.



Soil Information

The previous page shows a soil map using SSURGO data from USDA Natural Resources Conservation Service. Detailed information about each unit is provided below.

Map Unit GsA (2.87%)

Map Unit Name:	Greenfield sandy loam, 0 to 2 percent slopes
Bedrock Depth - Min:	null
Watertable Depth - Annual Min:	null
Drainage Class - Dominant:	Well drained
Hydrologic Group - Dominant:	A - Soils in this group have low runoff potential when thoroughly wet. Water is transmitted freely through the soil.

Major components are printed below

Greenfield(85%)

horizon H1(0cm to 51cm)	Sandy loam
horizon H2(51cm to 152cm)	Sandy loam
horizon H3(152cm to 203cm)	Stratified loamy sand to coarse sandy loam

Component Description:

Minor map unit components are excluded from this report.

Map Unit: GsA - Greenfield sandy loam, 0 to 2 percent slopes

Component: Greenfield (85%)

The Greenfield component makes up 85 percent of the map unit. Slopes are 0 to 2 percent. This component is on terraces, alluvial fans. The parent material consists of alluvium derived from granite. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is high. Available water to a depth of 60 inches (or restricted depth) is moderate. Shrink-swell potential is low. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 1 percent. This component is in the R019XD064CA Loamy 9-20" ecological site. Nonirrigated land capability classification is 4c. Irrigated land capability classification is 1. This soil does not meet hydric criteria.

Component: Riverwash (5%)

Generated brief soil descriptions are created for major soil components. The Riverwash soil is a minor component.

Component: Hanford (5%)

Generated brief soil descriptions are created for major soil components. The Hanford soil is a minor component.

Component: Sandy alluvial land (4%)

Generated brief soil descriptions are created for major soil components. The Sandy alluvial land soil is a minor component.

Component: Unnamed (1%)

Generated brief soil descriptions are created for major soil components. The Unnamed soil is a minor component.

Map Unit GsC (80.02%)

Map Unit Name:	Greenfield sandy loam, 2 to 9 percent slopes
Bedrock Depth - Min:	null
Watertable Depth - Annual Min:	null
Drainage Class - Dominant:	Well drained
Hydrologic Group - Dominant:	A - Soils in this group have low runoff potential when thoroughly wet. Water is transmitted freely through the soil.

Major components are printed below

Greenfield(85%)

horizon H1(0cm to 51cm)	Sandy loam
-------------------------	------------

Soil Information

horizon H2(51cm to 152cm)
horizon H3(152cm to 203cm)

Sandy loam
Stratified loamy sand to coarse sandy loam

Component Description:

Minor map unit components are excluded from this report.

Map Unit: GsC - Greenfield sandy loam, 2 to 9 percent slopes

Component: Greenfield (85%)

The Greenfield component makes up 85 percent of the map unit. Slopes are 2 to 9 percent. This component is on terraces, alluvial fans. The parent material consists of alluvium derived from granite. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is high. Available water to a depth of 60 inches (or restricted depth) is moderate. Shrink-swell potential is low. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 1 percent. This component is in the R019XD064CA Loamy 9-20" ecological site. Nonirrigated land capability classification is 4e. Irrigated land capability classification is 2e. This soil does not meet hydric criteria.

Component: Hanford (8%)

Generated brief soil descriptions are created for major soil components. The Hanford soil is a minor component.

Component: Ramona (5%)

Generated brief soil descriptions are created for major soil components. The Ramona soil is a minor component.

Component: Unnamed (1%)

Generated brief soil descriptions are created for major soil components. The Unnamed soil is a minor component.

Component: Unnamed (1%)

Generated brief soil descriptions are created for major soil components. The Unnamed soil is a minor component.

Map Unit HbC (1.29%)

Map Unit Name:	Hanford coarse sandy loam, 2 to 9 percent slopes
Bedrock Depth - Min:	null
Watertable Depth - Annual Min:	null
Drainage Class - Dominant:	Well drained
Hydrologic Group - Dominant:	A - Soils in this group have low runoff potential when thoroughly wet. Water is transmitted freely through the soil.

Major components are printed below

Hanford(85%)

horizon H1(0cm to 20cm)	Coarse sandy loam
horizon H2(20cm to 99cm)	Coarse sandy loam
horizon H2(20cm to 99cm)	Sandy loam
horizon H3(99cm to 178cm)	Gravelly coarse sandy loam
horizon H3(99cm to 178cm)	Gravelly loamy coarse sand

Component Description:

Minor map unit components are excluded from this report.

Map Unit: HbC - Hanford coarse sandy loam, 2 to 9 percent slopes

Component: Hanford (85%)

The Hanford component makes up 85 percent of the map unit. Slopes are 2 to 9 percent. This component is on alluvial fans. The parent material consists of alluvium derived from granite. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is high. Available water to a depth of 60 inches (or restricted depth) is moderate. Shrink-swell potential is low. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 1 percent. This component is in the R019XD064CA Loamy 9-20" ecological site. Nonirrigated land capability classification is 4e. Irrigated land capability classification is 2e. This soil does not meet hydric criteria.

Soil Information

Component: Greenfield (8%)

Generated brief soil descriptions are created for major soil components. The Greenfield soil is a minor component.

Component: Ramona (5%)

Generated brief soil descriptions are created for major soil components. The Ramona soil is a minor component.

Component: Unnamed (2%)

Generated brief soil descriptions are created for major soil components. The Unnamed soil is a minor component.

Map Unit Sv (15.82%)

Map Unit Name:	Sunrise sandy loam
Bedrock Depth - Min:	null
Watertable Depth - Annual Min:	null
Drainage Class - Dominant:	Moderately well drained
Hydrologic Group - Dominant:	C - Soils in this group have moderately high runoff potential when thoroughly wet. Water transmission through the soil is somewhat restricted.

Major components are printed below

Sunrise(85%)

horizon H1(0cm to 48cm)	Sandy loam
horizon H2(48cm to 79cm)	Loam
horizon H3(79cm to 122cm)	Cemented
horizon H4(122cm to 165cm)	Stratified gravelly sandy loam to loam

Component Description:

Minor map unit components are excluded from this report.

Map Unit: Sv - Sunrise sandy loam

Component: Sunrise (85%)

The Sunrise component makes up 85 percent of the map unit. Slopes are 0 to 2 percent. This component is on basin floors. The parent material consists of alluvium derived from granite. Depth to a root restrictive layer, petrocalcic, is 20 to 40 inches. The natural drainage class is moderately well drained. Water movement in the most restrictive layer is very low. Available water to a depth of 60 inches (or restricted depth) is low. Shrink-swell potential is moderate. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 0 percent. This component is in the R030XG020CA Alkali Flats 4-9" ecological site. Nonirrigated land capability classification is 7e. Irrigated land capability classification is 3e. This soil does not meet hydric criteria. The calcium carbonate equivalent within 40 inches, typically, does not exceed 13 percent. The soil has a very slightly saline horizon within 30 inches of the soil surface.

Component: Merrill (5%)

Generated brief soil descriptions are created for major soil components. The Merrill soil is a minor component.

Component: Tray (5%)

Generated brief soil descriptions are created for major soil components. The Tray soil is a minor component.

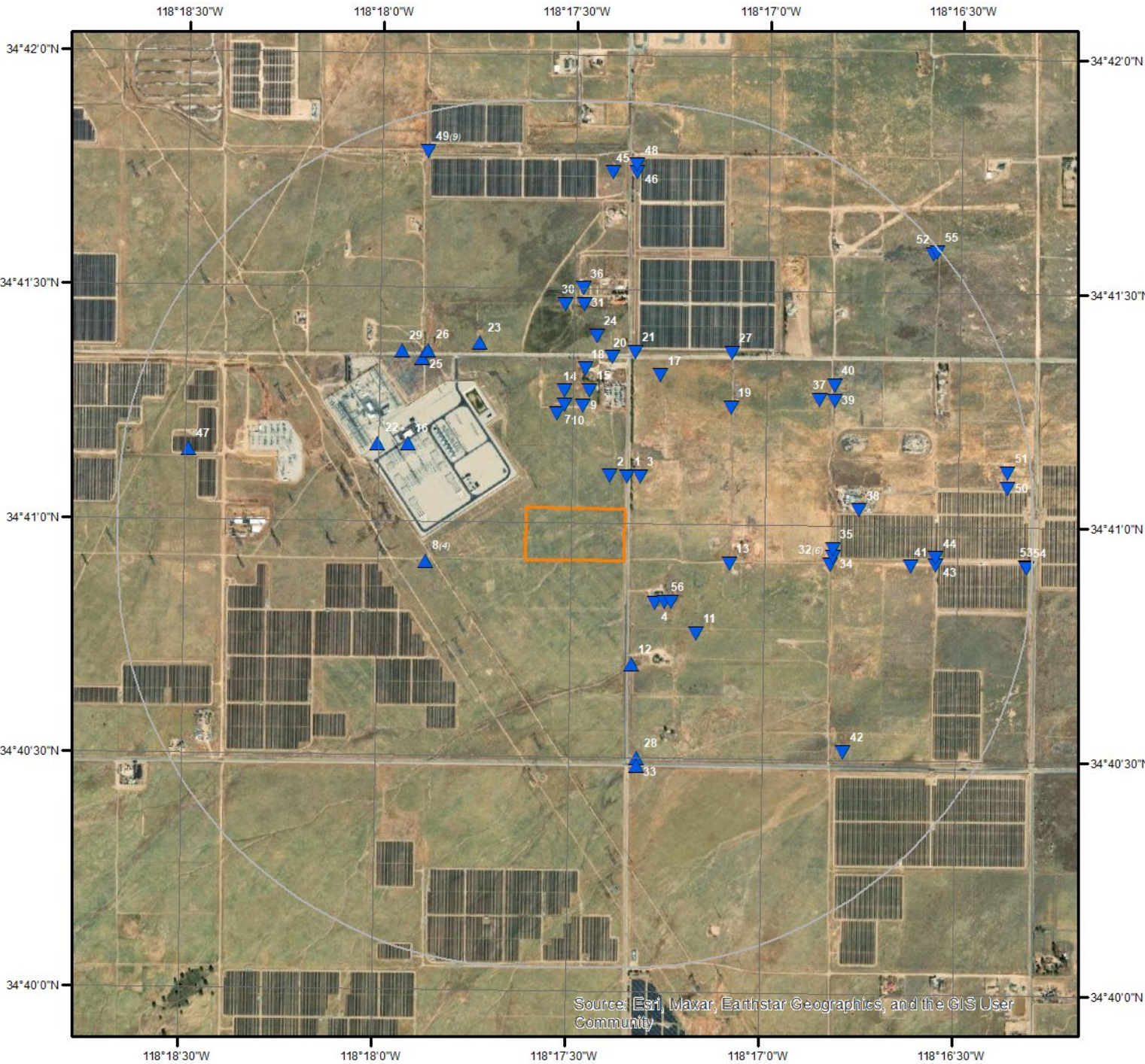
Component: Unnamed (4%)

Generated brief soil descriptions are created for major soil components. The Unnamed soil is a minor component.

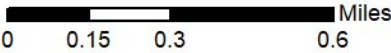
Component: Unnamed (1%)

Generated brief soil descriptions are created for major soil components. The Unnamed soil is a minor component.

Wells and Additional Sources



Wells & Additional Sources



- | | |
|--------------------------------|------------------------------------|
| ▲ Sites with Higher Elevation | ▲ OGW Sites with Higher Elevation |
| ■ Sites with Same Elevation | ■ OGW Sites with Same Elevation |
| ▼ Sites with Lower Elevation | ▼ OGW Sites with Lower Elevation |
| ○ Sites with Unknown Elevation | ● OGW Sites with Unknown Elevation |



Wells and Additional Sources Summary

Federal Sources

Public Water Systems Violations and Enforcement Data

Map Key	PWS ID	Distance (ft)	Direction
20	CA1900304	1961.60	NNE

Safe Drinking Water Information System (SDWIS)

Map Key	ID	Distance (ft)	Direction
No records found			

USGS National Water Information System

Map Key	Monitoring Loc Identifier	Distance (ft)	Direction
1	USGS-344106118171801	419.22	NE
3	USGS-344106118171601	461.12	NE
5	USGS-344050118171201	751.60	SE
6	USGS-344050118171101	812.04	SE
7	USGS-344114118172901	1219.90	N
9	USGS-344115118172501	1323.64	N
11	USGS-344046118170701	1332.60	SE
12	USGS-344042118171701	1351.31	SSE
13	USGS-344055118170201	1359.70	E
15	USGS-344117118172401	1526.43	N
16	USGS-344111118175701	1735.21	WNW
17	USGS-344119118171301	1788.41	NNE
18	USGS-344100118170001	1804.40	N
19	USGS-344115118170201	1902.91	NE
21	USGS-344122118171701	2038.51	NNE
23	USGS-344123118174101	2213.61	NNW
24	USGS-344124118172301	2234.56	N
25	USGS-344121118175001	2360.02	NW
26	USGS-344122118174901	2397.45	NW
27	USGS-344122118170201	2449.65	NE
28	USGS-344030118171601	2567.00	SSE
31	USGS-344128118172501	2637.55	N
33	USGS-344029118171601	2667.81	SSE
34	USGS-344056118164601	2695.70	E
35	USGS-344057118164601	2696.25	E
38	USGS-344102118164201	3032.89	E
39	USGS-344116118164601	3053.83	ENE
40	USGS-344118118164601	3153.48	ENE
42	USGS-344031118164401	3773.52	SE
43	USGS-344055118163001	4031.41	E
44	USGS-344056118163001	4031.65	E
46	USGS-344145118171701	4361.59	N
47	USGS-344109118182601	4429.60	WNW
48	USGS-344146118171701	4462.63	N
50	USGS-344105118161901	4963.41	E
51	USGS-344107118161901	4980.41	E
52	USGS-344135118163101	5179.79	NE
53	USGS-344055118161601	5200.36	E

Wells from NWIS

Wells and Additional Sources Summary

Map Key	ID	Distance (ft)	Direction
	No records found		

State Sources

Oil and Gas Wells

Map Key	ID	Distance (ft)	Direction
	No records found		

Periodic Groundwater Level Measurement Locations

Map Key	Site Code	Distance (ft)	Direction
2	346850N1182896W001	422.27	NNE
4	346805N1182885W001	681.09	SE
10	346875N1182921W001	1327.20	N
14	346880N1182918W001	1509.14	N
22	346861N1182996W001	2092.26	WNW
29	346894N1182988W001	2589.61	NW
30	346911N1182921W001	2637.12	N
37	346878N1182813W001	2890.59	ENE
41	346819N1182768W001	3703.90	E
45	346958N1182899W001	4352.02	N
54	346819N1182720W001	5206.75	E
55	346931N1182762W001	5236.96	NE

Well Completion Reports

Map Key	WCR No	Distance (ft)	Direction
8	WCR0256939	1297.27	W
8	WCR1952-001482	1297.27	W
8	WCR1952-001468	1297.27	W
8	WCR2016-007506	1297.27	W
32	WCR2005-014454	2666.77	E
32	WCR0131075	2666.77	E
32	WCR0132253	2666.77	E
32	WCR0180143	2666.77	E
32	WCR1979-006622	2666.77	E
32	WCR1987-012166	2666.77	E
36	WCR2021-005063	2847.18	N
49	WCR2007-009560	4780.64	NNW
49	WCR0096494	4780.64	NNW
49	WCR1776-004367	4780.64	NNW
49	WCR2007-009559	4780.64	NNW
49	WCR2006-012112	4780.64	NNW
49	WCR2007-009557	4780.64	NNW
49	WCR2007-009558	4780.64	NNW
49	WCR2000-011416	4780.64	NNW
49	WCR1986-010212	4780.64	NNW

Wells and Additional Sources Detail Report

Public Water Systems Violations and Enforcement Data

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
20	NNE	0.37	1,961.60	2,426.27	PWSV

Address Line 2:

State Code: CA
Zip Code: 93534
City Name: LANCASTER
Address Line 1: 9020 WEST AVE J
PWS ID: CA1900304
PWS Type Code: TNCWS
PWS Type Description: Transient Non-Community Water System
Primary Source Code: GW
Primary Source Desc: Groundwater
PWS Activity Code: A
PWS Activity Description: Active
PWS Deactivation Date:
Phone Number:

--Details--

Population Served Count: 25
City Served:
County Served: Los Angeles
State Served: CA
Zip Code Served:

USGS National Water Information System

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
1	NE	0.08	419.22	2,429.34	FED USGS

Organiz Identifier: USGS-CA
Organiz Name: USGS California Water Science Center
Well Depth: 500
Well Depth Unit: ft
Well Hole Depth: 500
W Hole Depth Unit: ft
Construction Date: 19320101
Source Map Scale: 24000
Monitoring Loc Name: 007N013W20E001S
Monitoring Loc Identifier: USGS-344106118171801
Monitoring Loc Type: Well
Monitoring Loc Desc:
HUC Eight Digit Code: 18090206

Formation Type:
Aquifer Name: Basin and Range basin-fill aquifers
Aquifer Type:
Country Code: US
Provider Name: NWIS
County: LOS ANGELES
Latitude: 34.68498490000000
Longitude: -118.2892438000000

Wells and Additional Sources Detail Report

Drainage Area:
 Drainage Area Unit:
 Contrib Drainage Area:
 Contrib Drainage Area Unit:
 Horizontal Accuracy: 1
 Horizontal Accuracy Unit: seconds
 Horizontal Collection Mthd: Interpolated from MAP.
 Horiz Coord Refer System: NAD83
 Vertical Measure: 2425.00
 Vertical Measure Unit: feet
 Vertical Accuracy: 010
 Vertical Accuracy Unit: feet
 Vertical Collection Mthd: Interpolated from topographic map.
 Vert Coord Refer System: NGVD29

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
3	NE	0.09	461.12	2,426.40	FED USGS

Organiz Identifier:	USGS-CA	Formation Type:	
Organiz Name:	USGS California Water Science Center	Aquifer Name:	Basin and Range basin-fill aquifers
Well Depth:	605	Aquifer Type:	
Well Depth Unit:	ft	Country Code:	US
Well Hole Depth:	605	Provider Name:	NWIS
W Hole Depth Unit:	ft	County:	LOS ANGELES
Construction Date:	19560201	Latitude:	34.68498490000000
Source Map Scale:	24000	Longitude:	-118.2886882000000
Monitoring Loc Name:	007N013W20E002S		
Monitoring Loc Identifier:	USGS-344106118171601		
Monitoring Loc Type:	Well		
Monitoring Loc Desc:			
HUC Eight Digit Code:	18090206		
Drainage Area:			
Drainage Area Unit:			
Contrib Drainage Area:			
Contrib Drainage Area Unit:			
Horizontal Accuracy:	1		
Horizontal Accuracy Unit:	seconds		
Horizontal Collection Mthd:	Interpolated from MAP.		
Horiz Coord Refer System:	NAD83		
Vertical Measure:	2424.00		
Vertical Measure Unit:	feet		
Vertical Accuracy:	010		
Vertical Accuracy Unit:	feet		

Wells and Additional Sources Detail Report

Vertical Collection Mthd: Interpolated from topographic map.
Vert Coord Refer System: NGVD29

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
5	SE	0.14	751.60	2,435.03	FED USGS

Organiz Identifier:	USGS-CA	Formation Type:	
Organiz Name:	USGS California Water Science Center	Aquifer Name:	Basin and Range basin-fill aquifers
Well Depth:	256	Aquifer Type:	
Well Depth Unit:	ft	Country Code:	US
Well Hole Depth:	256	Provider Name:	NWIS
W Hole Depth Unit:	ft	County:	LOS ANGELES
Construction Date:	19500101	Latitude:	34.68054066000000
Source Map Scale:	24000	Longitude:	-118.2875770000000
Monitoring Loc Name:	007N013W20M001S		
Monitoring Loc Identifier:	USGS-344050118171201		
Monitoring Loc Type:	Well		
Monitoring Loc Desc:			
HUC Eight Digit Code:	18090206		
Drainage Area:			
Drainage Area Unit:			
Contrib Drainage Area:			
Contrib Drainage Area Unit:			
Horizontal Accuracy:	1		
Horizontal Accuracy Unit:	seconds		
Horizontal Collection Mthd:	Interpolated from MAP.		
Horiz Coord Refer System:	NAD83		
Vertical Measure:	2432.00		
Vertical Measure Unit:	feet		
Vertical Accuracy:	010		
Vertical Accuracy Unit:	feet		
Vertical Collection Mthd:	Interpolated from topographic map.		
Vert Coord Refer System:	NGVD29		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
6	SE	0.15	812.04	2,433.73	FED USGS

Organiz Identifier:	USGS-CA	Formation Type:	
Organiz Name:	USGS California Water Science Center	Aquifer Name:	Basin and Range basin-fill aquifers
Well Depth:	350	Aquifer Type:	
Well Depth Unit:	ft	Country Code:	US
Well Hole Depth:	350	Provider Name:	NWIS
W Hole Depth Unit:	ft	County:	LOS ANGELES

Wells and Additional Sources Detail Report

Construction Date:	19620701	Latitude:	34.68054066000000
Source Map Scale:	24000	Longitude:	-118.2872993000000
Monitoring Loc Name:	007N013W20M002S		
Monitoring Loc Identifier:	USGS-344050118171101		
Monitoring Loc Type:	Well		
Monitoring Loc Desc:			
HUC Eight Digit Code:	18090206		
Drainage Area:			
Drainage Area Unit:			
Contrib Drainage Area:			
Contrib Drainage Area Unit:			
Horizontal Accuracy:	1		
Horizontal Accuracy Unit:	seconds		
Horizontal Collection Mthd:	Interpolated from MAP.		
Horiz Coord Refer System:	NAD83		
Vertical Measure:	2435.00		
Vertical Measure Unit:	feet		
Vertical Accuracy:	010		
Vertical Accuracy Unit:	feet		
Vertical Collection Mthd:	Interpolated from topographic map.		
Vert Coord Refer System:	NGVD29		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
7	N	0.23	1,219.90	2,435.71	FED USGS

Organiz Identifier:	USGS-CA	Formation Type:	
Organiz Name:	USGS California Water Science Center	Aquifer Name:	Basin and Range basin-fill aquifers
Well Depth:	450	Aquifer Type:	
Well Depth Unit:	ft	Country Code:	US
Well Hole Depth:	450	Provider Name:	NWIS
W Hole Depth Unit:	ft	County:	LOS ANGELES
Construction Date:	19510101	Latitude:	34.68720705000000
Source Map Scale:	24000	Longitude:	-118.2922994000000
Monitoring Loc Name:	007N013W19A002S		
Monitoring Loc Identifier:	USGS-344114118172901		
Monitoring Loc Type:	Well		
Monitoring Loc Desc:			
HUC Eight Digit Code:	18090206		
Drainage Area:			
Drainage Area Unit:			
Contrib Drainage Area:			
Contrib Drainage Area Unit:			
Horizontal Accuracy:	1		
Horizontal Accuracy Unit:	seconds		

Wells and Additional Sources Detail Report

Horizontal Collection Mthd: Interpolated from MAP.
 Horiz Coord Refer System: NAD83
 Vertical Measure: 2430.00
 Vertical Measure Unit: feet
 Vertical Accuracy: 010
 Vertical Accuracy Unit: feet
 Vertical Collection Mthd: Interpolated from topographic map.
 Vert Coord Refer System: NGVD29

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
9	N	0.25	1,323.64	2,431.75	FED USGS

Organiz Identifier:	USGS-CA	Formation Type:	
Organiz Name:	USGS California Water Science Center	Aquifer Name:	Basin and Range basin-fill aquifers
Well Depth:	75.0	Aquifer Type:	
Well Depth Unit:	ft	Country Code:	US
Well Hole Depth:	75.0	Provider Name:	NWIS
W Hole Depth Unit:	ft	County:	LOS ANGELES
Construction Date:	18900101	Latitude:	34.68748480000000
Source Map Scale:	24000	Longitude:	-118.29118830000000
Monitoring Loc Name:	007N013W19A004S		
Monitoring Loc Identifier:	USGS-344115118172501		
Monitoring Loc Type:	Well		
Monitoring Loc Desc:			
HUC Eight Digit Code:	18090206		
Drainage Area:			
Drainage Area Unit:			
Contrib Drainage Area:			
Contrib Drainage Area Unit:			
Horizontal Accuracy:	1		
Horizontal Accuracy Unit:	seconds		
Horizontal Collection Mthd:	Interpolated from MAP.		
Horiz Coord Refer System:	NAD83		
Vertical Measure:	2427.00		
Vertical Measure Unit:	feet		
Vertical Accuracy:	010		
Vertical Accuracy Unit:	feet		
Vertical Collection Mthd:	Interpolated from topographic map.		
Vert Coord Refer System:	NGVD29		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
11	SE	0.25	1,332.60	2,432.80	FED USGS

Wells and Additional Sources Detail Report

Organiz Identifier:	USGS-CA	Formation Type:	
Organiz Name:	USGS California Water Science Center	Aquifer Name:	Basin and Range basin-fill aquifers
Well Depth:	153	Aquifer Type:	
Well Depth Unit:	ft	Country Code:	US
Well Hole Depth:		Provider Name:	NWIS
W Hole Depth Unit:		County:	LOS ANGELES
Construction Date:		Latitude:	34.67942960000000
Source Map Scale:	24000	Longitude:	-118.28618820000000
Monitoring Loc Name:	007N013W20M004S		
Monitoring Loc Identifier:	USGS-344046118170701		
Monitoring Loc Type:	Well		
Monitoring Loc Desc:			
HUC Eight Digit Code:	18090206		
Drainage Area:			
Drainage Area Unit:			
Contrib Drainage Area:			
Contrib Drainage Area Unit:			
Horizontal Accuracy:	1		
Horizontal Accuracy Unit:	seconds		
Horizontal Collection Mthd:	Interpolated from MAP.		
Horiz Coord Refer System:	NAD83		
Vertical Measure:	2447.00		
Vertical Measure Unit:	feet		
Vertical Accuracy:	010		
Vertical Accuracy Unit:	feet		
Vertical Collection Mthd:	Interpolated from topographic map.		
Vert Coord Refer System:	NGVD29		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
12	SSE	0.26	1,351.31	2,450.96	FED USGS

Organiz Identifier:	USGS-CA	Formation Type:	
Organiz Name:	USGS California Water Science Center	Aquifer Name:	Basin and Range basin-fill aquifers
Well Depth:	500	Aquifer Type:	
Well Depth Unit:	ft	Country Code:	US
Well Hole Depth:	500	Provider Name:	NWIS
W Hole Depth Unit:	ft	County:	LOS ANGELES
Construction Date:		Latitude:	34.67831850000000
Source Map Scale:	24000	Longitude:	-118.28896600000000
Monitoring Loc Name:	007N013W20M003S		
Monitoring Loc Identifier:	USGS-344042118171701		
Monitoring Loc Type:	Well		
Monitoring Loc Desc:			
HUC Eight Digit Code:	18090206		

Wells and Additional Sources Detail Report

Drainage Area:
 Drainage Area Unit:
 Contrib Drainage Area:
 Contrib Drainage Area Unit:
 Horizontal Accuracy: 1
 Horizontal Accuracy Unit: seconds
 Horizontal Collection Mthd: Interpolated from MAP.
 Horiz Coord Refer System: NAD83
 Vertical Measure: 2449.00
 Vertical Measure Unit: feet
 Vertical Accuracy: 010
 Vertical Accuracy Unit: feet
 Vertical Collection Mthd: Interpolated from topographic map.
 Vert Coord Refer System: NGVD29

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
13	E	0.26	1,359.70	2,417.14	FED USGS

Organiz Identifier:	USGS-CA	Formation Type:	
Organiz Name:	USGS California Water Science Center	Aquifer Name:	Basin and Range basin-fill aquifers
Well Depth:	455	Aquifer Type:	
Well Depth Unit:	ft	Country Code:	US
Well Hole Depth:	455	Provider Name:	NWIS
W Hole Depth Unit:	ft	County:	LOS ANGELES
Construction Date:	19290301	Latitude:	34.68192950000000
Source Map Scale:	24000	Longitude:	-118.2847992000000
Monitoring Loc Name:	007N013W20F001S		
Monitoring Loc Identifier:	USGS-344055118170201		
Monitoring Loc Type:	Well		
Monitoring Loc Desc:			
HUC Eight Digit Code:	18090206		
Drainage Area:			
Drainage Area Unit:			
Contrib Drainage Area:			
Contrib Drainage Area Unit:			
Horizontal Accuracy:	1		
Horizontal Accuracy Unit:	seconds		
Horizontal Collection Mthd:	Interpolated from MAP.		
Horiz Coord Refer System:	NAD83		
Vertical Measure:	2413.00		
Vertical Measure Unit:	feet		
Vertical Accuracy:	010		
Vertical Accuracy Unit:	feet		

Wells and Additional Sources Detail Report

Vertical Collection Mthd: Interpolated from topographic map.
Vert Coord Refer System: NGVD29

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
15	N	0.29	1,526.43	2,429.80	FED USGS

Organiz Identifier:	USGS-CA	Formation Type:	
Organiz Name:	USGS California Water Science Center	Aquifer Name:	Basin and Range basin-fill aquifers
Well Depth:	400	Aquifer Type:	
Well Depth Unit:	ft	Country Code:	US
Well Hole Depth:	400	Provider Name:	NWIS
W Hole Depth Unit:	ft	County:	LOS ANGELES
Construction Date:	19300101	Latitude:	34.68804035000000
Source Map Scale:	24000	Longitude:	-118.2909105000000
Monitoring Loc Name:	007N013W19A001S		
Monitoring Loc Identifier:	USGS-344117118172401		
Monitoring Loc Type:	Well		
Monitoring Loc Desc:			
HUC Eight Digit Code:	18090206		
Drainage Area:			
Drainage Area Unit:			
Contrib Drainage Area:			
Contrib Drainage Area Unit:			
Horizontal Accuracy:	1		
Horizontal Accuracy Unit:	seconds		
Horizontal Collection Mthd:	Interpolated from MAP.		
Horiz Coord Refer System:	NAD83		
Vertical Measure:	2424.00		
Vertical Measure Unit:	feet		
Vertical Accuracy:	010		
Vertical Accuracy Unit:	feet		
Vertical Collection Mthd:	Interpolated from topographic map.		
Vert Coord Refer System:	NGVD29		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
16	WNW	0.33	1,735.21	2,470.12	FED USGS

Organiz Identifier:	USGS-CA	Formation Type:	
Organiz Name:	USGS California Water Science Center	Aquifer Name:	Basin and Range basin-fill aquifers
Well Depth:	500	Aquifer Type:	
Well Depth Unit:	ft	Country Code:	US
Well Hole Depth:	500	Provider Name:	NWIS
W Hole Depth Unit:	ft	County:	LOS ANGELES

Wells and Additional Sources Detail Report

Construction Date:	19520818	Latitude:	34.68609597000000
Source Map Scale:	24000	Longitude:	-118.2986885000000
Monitoring Loc Name:	007N013W19D001S		
Monitoring Loc Identifier:	USGS-344111118175701		
Monitoring Loc Type:	Well		
Monitoring Loc Desc:			
HUC Eight Digit Code:	18090206		
Drainage Area:			
Drainage Area Unit:			
Contrib Drainage Area:			
Contrib Drainage Area Unit:			
Horizontal Accuracy:	1		
Horizontal Accuracy Unit:	seconds		
Horizontal Collection Mthd:	Interpolated from MAP.		
Horiz Coord Refer System:	NAD83		
Vertical Measure:	2470		
Vertical Measure Unit:	feet		
Vertical Accuracy:	10		
Vertical Accuracy Unit:	feet		
Vertical Collection Mthd:	Interpolated from topographic map.		
Vert Coord Refer System:	NGVD29		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
17	NNE	0.34	1,788.41	2,419.56	FED USGS

Organiz Identifier:	USGS-CA	Formation Type:	
Organiz Name:	USGS California Water Science Center	Aquifer Name:	Basin and Range basin-fill aquifers
Well Depth:	560	Aquifer Type:	
Well Depth Unit:	ft	Country Code:	US
Well Hole Depth:	560	Provider Name:	NWIS
W Hole Depth Unit:	ft	County:	LOS ANGELES
Construction Date:	18900101	Latitude:	34.68859589000000
Source Map Scale:	24000	Longitude:	-118.2878548000000
Monitoring Loc Name:	007N013W20Z002S		
Monitoring Loc Identifier:	USGS-344119118171301		
Monitoring Loc Type:	Well		
Monitoring Loc Desc:			
HUC Eight Digit Code:	18090206		
Drainage Area:			
Drainage Area Unit:			
Contrib Drainage Area:			
Contrib Drainage Area Unit:			
Horizontal Accuracy:	1		
Horizontal Accuracy Unit:	seconds		

Wells and Additional Sources Detail Report

Horizontal Collection Mthd: Interpolated from MAP.
 Horiz Coord Refer System: NAD83
 Vertical Measure: 2415.00
 Vertical Measure Unit: feet
 Vertical Accuracy: 010
 Vertical Accuracy Unit: feet
 Vertical Collection Mthd: Interpolated from topographic map.
 Vert Coord Refer System: NGVD29

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
18	N	0.34	1,804.40	2,429.95	FED USGS

Organiz Identifier:	USGS-CA	Formation Type:	
Organiz Name:	USGS California Water Science Center	Aquifer Name:	Basin and Range basin-fill aquifers
Well Depth:		Aquifer Type:	
Well Depth Unit:		Country Code:	US
Well Hole Depth:		Provider Name:	NWIS
W Hole Depth Unit:		County:	LOS ANGELES
Construction Date:		Latitude:	34.68880556000000
Source Map Scale:	24000	Longitude:	-118.2911110000000
Monitoring Loc Name:	007N013W19A005S		
Monitoring Loc Identifier:	USGS-344100118170001		
Monitoring Loc Type:	Well		
Monitoring Loc Desc:			
HUC Eight Digit Code:	18090206		
Drainage Area:			
Drainage Area Unit:			
Contrib Drainage Area:			
Contrib Drainage Area Unit:			
Horizontal Accuracy:	.5		
Horizontal Accuracy Unit:	seconds		
Horizontal Collection Mthd:	Mapping grade GPS unit (handheld accuracy range 12 to 40 ft)		
Horiz Coord Refer System:	NAD83		
Vertical Measure:	2429		
Vertical Measure Unit:	feet		
Vertical Accuracy:	5		
Vertical Accuracy Unit:	feet		
Vertical Collection Mthd:	Interpolated from Digital Elevation Model		
Vert Coord Refer System:	NAVD88		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
19	NE	0.36	1,902.91	2,410.76	FED USGS

Wells and Additional Sources Detail Report

Organiz Identifier:	USGS-CA	Formation Type:	
Organiz Name:	USGS California Water Science Center	Aquifer Name:	Basin and Range basin-fill aquifers
Well Depth:	500	Aquifer Type:	
Well Depth Unit:	ft	Country Code:	US
Well Hole Depth:	500	Provider Name:	NWIS
W Hole Depth Unit:	ft	County:	LOS ANGELES
Construction Date:	19350101	Latitude:	34.68748480000000
Source Map Scale:	24000	Longitude:	-118.28479920000000
Monitoring Loc Name:	007N013W20C001S		
Monitoring Loc Identifier:	USGS-344115118170201		
Monitoring Loc Type:	Well		
Monitoring Loc Desc:			
HUC Eight Digit Code:	18090206		
Drainage Area:			
Drainage Area Unit:			
Contrib Drainage Area:			
Contrib Drainage Area Unit:			
Horizontal Accuracy:	1		
Horizontal Accuracy Unit:	seconds		
Horizontal Collection Mthd:	Interpolated from MAP.		
Horiz Coord Refer System:	NAD83		
Vertical Measure:	2409.00		
Vertical Measure Unit:	feet		
Vertical Accuracy:	010		
Vertical Accuracy Unit:	feet		
Vertical Collection Mthd:	Interpolated from topographic map.		
Vert Coord Refer System:	NGVD29		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
21	NNE	0.39	2,038.51	2,423.41	FED USGS

Organiz Identifier:	USGS-CA	Formation Type:	
Organiz Name:	USGS California Water Science Center	Aquifer Name:	Basin and Range basin-fill aquifers
Well Depth:	602	Aquifer Type:	
Well Depth Unit:	ft	Country Code:	US
Well Hole Depth:	602	Provider Name:	NWIS
W Hole Depth Unit:	ft	County:	LOS ANGELES
Construction Date:	19521210	Latitude:	34.68942918000000
Source Map Scale:	24000	Longitude:	-118.28896600000000
Monitoring Loc Name:	007N013W17N001S		
Monitoring Loc Identifier:	USGS-344122118171701		
Monitoring Loc Type:	Well		
Monitoring Loc Desc:			
HUC Eight Digit Code:	18090206		

Wells and Additional Sources Detail Report

Drainage Area:
 Drainage Area Unit:
 Contrib Drainage Area:
 Contrib Drainage Area Unit:
 Horizontal Accuracy: 1
 Horizontal Accuracy Unit: seconds
 Horizontal Collection Mthd: Interpolated from MAP.
 Horiz Coord Refer System: NAD83
 Vertical Measure: 2422.00
 Vertical Measure Unit: feet
 Vertical Accuracy: 010
 Vertical Accuracy Unit: feet
 Vertical Collection Mthd: Interpolated from topographic map.
 Vert Coord Refer System: NGVD29

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
23	NNW	0.42	2,213.61	2,443.03	FED USGS

Organiz Identifier:	USGS-CA	Formation Type:	
Organiz Name:	USGS California Water Science Center	Aquifer Name:	Basin and Range basin-fill aquifers
Well Depth:		Aquifer Type:	
Well Depth Unit:		Country Code:	US
Well Hole Depth:		Provider Name:	NWIS
W Hole Depth Unit:		County:	LOS ANGELES
Construction Date:		Latitude:	34.68970694000000
Source Map Scale:	24000	Longitude:	-118.2956328000000
Monitoring Loc Name:	007N013W18Q003S		
Monitoring Loc Identifier:	USGS-344123118174101		
Monitoring Loc Type:	Well		
Monitoring Loc Desc:			
HUC Eight Digit Code:	18090206		
Drainage Area:			
Drainage Area Unit:			
Contrib Drainage Area:			
Contrib Drainage Area Unit:			
Horizontal Accuracy:	1		
Horizontal Accuracy Unit:	seconds		
Horizontal Collection Mthd:	Interpolated from MAP.		
Horiz Coord Refer System:	NAD83		
Vertical Measure:	2441.00		
Vertical Measure Unit:	feet		
Vertical Accuracy:	010		
Vertical Accuracy Unit:	feet		

Wells and Additional Sources Detail Report

Vertical Collection Mthd: Interpolated from topographic map.
Vert Coord Refer System: NGVD29

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
24	N	0.42	2,234.56	2,429.16	FED USGS

Organiz Identifier:	USGS-CA	Formation Type:	
Organiz Name:	USGS California Water Science Center	Aquifer Name:	Basin and Range basin-fill aquifers
Well Depth:		Aquifer Type:	
Well Depth Unit:		Country Code:	US
Well Hole Depth:		Provider Name:	NWIS
W Hole Depth Unit:		County:	LOS ANGELES
Construction Date:		Latitude:	34.68998470000000
Source Map Scale:	24000	Longitude:	-118.2906327000000
Monitoring Loc Name:	007N013W18R003S		
Monitoring Loc Identifier:	USGS-344124118172301		
Monitoring Loc Type:	Well		
Monitoring Loc Desc:			
HUC Eight Digit Code:	18090206		
Drainage Area:			
Drainage Area Unit:			
Contrib Drainage Area:			
Contrib Drainage Area Unit:			
Horizontal Accuracy:	1		
Horizontal Accuracy Unit:	seconds		
Horizontal Collection Mthd:	Interpolated from MAP.		
Horiz Coord Refer System:	NAD83		
Vertical Measure:	2426.00		
Vertical Measure Unit:	feet		
Vertical Accuracy:	010		
Vertical Accuracy Unit:	feet		
Vertical Collection Mthd:	Interpolated from topographic map.		
Vert Coord Refer System:	NGVD29		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
25	NW	0.45	2,360.02	2,453.49	FED USGS

Organiz Identifier:	USGS-CA	Formation Type:	
Organiz Name:	USGS California Water Science Center	Aquifer Name:	Basin and Range basin-fill aquifers
Well Depth:	200	Aquifer Type:	
Well Depth Unit:	ft	Country Code:	US
Well Hole Depth:	200	Provider Name:	NWIS
W Hole Depth Unit:	ft	County:	LOS ANGELES

Wells and Additional Sources Detail Report

Construction Date:		Latitude:	34.68915140000000
Source Map Scale:	24000	Longitude:	-118.29813290000000
Monitoring Loc Name:	007N013W18Q002S		
Monitoring Loc Identifier:	USGS-344121118175001		
Monitoring Loc Type:	Well		
Monitoring Loc Desc:			
HUC Eight Digit Code:	18090206		
Drainage Area:			
Drainage Area Unit:			
Contrib Drainage Area:			
Contrib Drainage Area Unit:			
Horizontal Accuracy:	1		
Horizontal Accuracy Unit:	seconds		
Horizontal Collection Mthd:	Interpolated from MAP.		
Horiz Coord Refer System:	NAD83		
Vertical Measure:	2450.00		
Vertical Measure Unit:	feet		
Vertical Accuracy:	010		
Vertical Accuracy Unit:	feet		
Vertical Collection Mthd:	Interpolated from topographic map.		
Vert Coord Refer System:	NGVD29		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
26	NW	0.45	2,397.45	2,451.88	FED USGS

Organiz Identifier:	USGS-CA	Formation Type:	
Organiz Name:	USGS California Water Science Center	Aquifer Name:	Basin and Range basin-fill aquifers
Well Depth:	450	Aquifer Type:	
Well Depth Unit:	ft	Country Code:	US
Well Hole Depth:	450	Provider Name:	NWIS
W Hole Depth Unit:	ft	County:	LOS ANGELES
Construction Date:		Latitude:	34.68942917000000
Source Map Scale:	24000	Longitude:	-118.29785510000000
Monitoring Loc Name:	007N013W18Q001S		
Monitoring Loc Identifier:	USGS-344122118174901		
Monitoring Loc Type:	Well		
Monitoring Loc Desc:			
HUC Eight Digit Code:	18090206		
Drainage Area:			
Drainage Area Unit:			
Contrib Drainage Area:			
Contrib Drainage Area Unit:			
Horizontal Accuracy:	1		
Horizontal Accuracy Unit:	seconds		

Wells and Additional Sources Detail Report

Horizontal Collection Mthd: Interpolated from MAP.
 Horiz Coord Refer System: NAD83
 Vertical Measure: 2450.00
 Vertical Measure Unit: feet
 Vertical Accuracy: 010
 Vertical Accuracy Unit: feet
 Vertical Collection Mthd: Interpolated from topographic map.
 Vert Coord Refer System: NGVD29

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
27	NE	0.46	2,449.65	2,410.97	FED USGS

Organiz Identifier:	USGS-CA	Formation Type:	
Organiz Name:	USGS California Water Science Center	Aquifer Name:	Basin and Range basin-fill aquifers
Well Depth:	450	Aquifer Type:	
Well Depth Unit:	ft	Country Code:	US
Well Hole Depth:	450	Provider Name:	NWIS
W Hole Depth Unit:	ft	County:	LOS ANGELES
Construction Date:	19280101	Latitude:	34.68942919000000
Source Map Scale:	24000	Longitude:	-118.2847992000000
Monitoring Loc Name:	007N013W17P001S		
Monitoring Loc Identifier:	USGS-344122118170201		
Monitoring Loc Type:	Well		
Monitoring Loc Desc:			
HUC Eight Digit Code:	18090206		
Drainage Area:			
Drainage Area Unit:			
Contrib Drainage Area:			
Contrib Drainage Area Unit:			
Horizontal Accuracy:	1		
Horizontal Accuracy Unit:	seconds		
Horizontal Collection Mthd:	Interpolated from MAP.		
Horiz Coord Refer System:	NAD83		
Vertical Measure:	2408.00		
Vertical Measure Unit:	feet		
Vertical Accuracy:	010		
Vertical Accuracy Unit:	feet		
Vertical Collection Mthd:	Interpolated from topographic map.		
Vert Coord Refer System:	NGVD29		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
28	SSE	0.49	2,567.00	2,468.69	FED USGS

Wells and Additional Sources Detail Report

Organiz Identifier:	USGS-CA	Formation Type:	
Organiz Name:	USGS California Water Science Center	Aquifer Name:	Basin and Range basin-fill aquifers
Well Depth:		Aquifer Type:	
Well Depth Unit:		Country Code:	US
Well Hole Depth:		Provider Name:	NWIS
W Hole Depth Unit:		County:	LOS ANGELES
Construction Date:		Latitude:	34.67498534000000
Source Map Scale:	24000	Longitude:	-118.28868830000000
Monitoring Loc Name:	007N013W20N001S		
Monitoring Loc Identifier:	USGS-344030118171601		
Monitoring Loc Type:	Well		
Monitoring Loc Desc:			
HUC Eight Digit Code:	18090206		
Drainage Area:			
Drainage Area Unit:			
Contrib Drainage Area:			
Contrib Drainage Area Unit:			
Horizontal Accuracy:	1		
Horizontal Accuracy Unit:	seconds		
Horizontal Collection Mthd:	Interpolated from MAP.		
Horiz Coord Refer System:	NAD83		
Vertical Measure:	2465.00		
Vertical Measure Unit:	feet		
Vertical Accuracy:	010		
Vertical Accuracy Unit:	feet		
Vertical Collection Mthd:	Interpolated from topographic map.		
Vert Coord Refer System:	NGVD29		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
31	N	0.50	2,637.55	2,432.30	FED USGS

Organiz Identifier:	USGS-CA	Formation Type:	
Organiz Name:	USGS California Water Science Center	Aquifer Name:	Basin and Range basin-fill aquifers
Well Depth:	500	Aquifer Type:	
Well Depth Unit:	ft	Country Code:	US
Well Hole Depth:	500	Provider Name:	NWIS
W Hole Depth Unit:	ft	County:	LOS ANGELES
Construction Date:		Latitude:	34.69109578000000
Source Map Scale:	24000	Longitude:	-118.29118830000000
Monitoring Loc Name:	007N013W18R001S		
Monitoring Loc Identifier:	USGS-344128118172501		
Monitoring Loc Type:	Well		
Monitoring Loc Desc:			
HUC Eight Digit Code:	18090206		

Wells and Additional Sources Detail Report

Drainage Area:
 Drainage Area Unit:
 Contrib Drainage Area:
 Contrib Drainage Area Unit:
 Horizontal Accuracy: 1
 Horizontal Accuracy Unit: seconds
 Horizontal Collection Mthd: Interpolated from MAP.
 Horiz Coord Refer System: NAD83
 Vertical Measure: 2430.00
 Vertical Measure Unit: feet
 Vertical Accuracy: 010
 Vertical Accuracy Unit: feet
 Vertical Collection Mthd: Interpolated from topographic map.
 Vert Coord Refer System: NGVD29

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
33	SSE	0.51	2,667.81	2,470.11	FED USGS

Organiz Identifier:	USGS-CA	Formation Type:	
Organiz Name:	USGS California Water Science Center	Aquifer Name:	Basin and Range basin-fill aquifers
Well Depth:	500	Aquifer Type:	
Well Depth Unit:	ft	Country Code:	US
Well Hole Depth:	500	Provider Name:	NWIS
W Hole Depth Unit:	ft	County:	LOS ANGELES
Construction Date:		Latitude:	34.67470757000000
Source Map Scale:	24000	Longitude:	-118.2886883000000
Monitoring Loc Name:	007N013W20N002S		
Monitoring Loc Identifier:	USGS-344029118171601		
Monitoring Loc Type:	Well		
Monitoring Loc Desc:			
HUC Eight Digit Code:	18090206		
Drainage Area:			
Drainage Area Unit:			
Contrib Drainage Area:			
Contrib Drainage Area Unit:			
Horizontal Accuracy:	1		
Horizontal Accuracy Unit:	seconds		
Horizontal Collection Mthd:	Interpolated from MAP.		
Horiz Coord Refer System:	NAD83		
Vertical Measure:	2465.00		
Vertical Measure Unit:	feet		
Vertical Accuracy:	010		
Vertical Accuracy Unit:	feet		

Wells and Additional Sources Detail Report

Vertical Collection Mthd: Interpolated from topographic map.
Vert Coord Refer System: NGVD29

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
34	E	0.51	2,695.70	2,402.28	FED USGS

Organiz Identifier:	USGS-CA	Formation Type:	
Organiz Name:	USGS California Water Science Center	Aquifer Name:	Basin and Range basin-fill aquifers
Well Depth:	111	Aquifer Type:	
Well Depth Unit:	ft	Country Code:	US
Well Hole Depth:	111	Provider Name:	NWIS
W Hole Depth Unit:	ft	County:	LOS ANGELES
Construction Date:		Latitude:	34.68220727000000
Source Map Scale:	24000	Longitude:	-118.2803546000000
Monitoring Loc Name:	007N013W20G001S		
Monitoring Loc Identifier:	USGS-344056118164601		
Monitoring Loc Type:	Well		
Monitoring Loc Desc:			
HUC Eight Digit Code:	18090206		
Drainage Area:			
Drainage Area Unit:			
Contrib Drainage Area:			
Contrib Drainage Area Unit:			
Horizontal Accuracy:	1		
Horizontal Accuracy Unit:	seconds		
Horizontal Collection Mthd:	Interpolated from MAP.		
Horiz Coord Refer System:	NAD83		
Vertical Measure:	2400.00		
Vertical Measure Unit:	feet		
Vertical Accuracy:	010		
Vertical Accuracy Unit:	feet		
Vertical Collection Mthd:	Interpolated from topographic map.		
Vert Coord Refer System:	NGVD29		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
35	E	0.51	2,696.25	2,401.90	FED USGS

Organiz Identifier:	USGS-CA	Formation Type:	
Organiz Name:	USGS California Water Science Center	Aquifer Name:	Basin and Range basin-fill aquifers
Well Depth:	400	Aquifer Type:	
Well Depth Unit:	ft	Country Code:	US
Well Hole Depth:	400	Provider Name:	NWIS
W Hole Depth Unit:	ft	County:	LOS ANGELES

Wells and Additional Sources Detail Report

Construction Date:	19481101	Latitude:	34.68248504000000
Source Map Scale:	24000	Longitude:	-118.2803546000000
Monitoring Loc Name:	007N013W20G002S		
Monitoring Loc Identifier:	USGS-344057118164601		
Monitoring Loc Type:	Well		
Monitoring Loc Desc:			
HUC Eight Digit Code:	18090206		
Drainage Area:			
Drainage Area Unit:			
Contrib Drainage Area:			
Contrib Drainage Area Unit:			
Horizontal Accuracy:	1		
Horizontal Accuracy Unit:	seconds		
Horizontal Collection Mthd:	Interpolated from MAP.		
Horiz Coord Refer System:	NAD83		
Vertical Measure:	2400.00		
Vertical Measure Unit:	feet		
Vertical Accuracy:	010		
Vertical Accuracy Unit:	feet		
Vertical Collection Mthd:	Interpolated from topographic map.		
Vert Coord Refer System:	NGVD29		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
38	E	0.57	3,032.89	2,398.17	FED USGS

Organiz Identifier:	USGS-CA	Formation Type:	
Organiz Name:	USGS California Water Science Center	Aquifer Name:	Basin and Range basin-fill aquifers
Well Depth:	0.5	Aquifer Type:	
Well Depth Unit:	ft	Country Code:	US
Well Hole Depth:		Provider Name:	NWIS
W Hole Depth Unit:		County:	LOS ANGELES
Construction Date:		Latitude:	34.68387387000000
Source Map Scale:	24000	Longitude:	-118.2792435000000
Monitoring Loc Name:	007N013W20G003S		
Monitoring Loc Identifier:	USGS-344102118164201		
Monitoring Loc Type:	Well		
Monitoring Loc Desc:			
HUC Eight Digit Code:	18090206		
Drainage Area:			
Drainage Area Unit:			
Contrib Drainage Area:			
Contrib Drainage Area Unit:			
Horizontal Accuracy:	1		
Horizontal Accuracy Unit:	seconds		

Wells and Additional Sources Detail Report

Horizontal Collection Mthd: Interpolated from MAP.
 Horiz Coord Refer System: NAD83
 Vertical Measure: 2396.00
 Vertical Measure Unit: feet
 Vertical Accuracy: 010
 Vertical Accuracy Unit: feet
 Vertical Collection Mthd: Interpolated from topographic map.
 Vert Coord Refer System: NGVD29

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
39	ENE	0.58	3,053.83	2,399.36	FED USGS

Organiz Identifier:	USGS-CA	Formation Type:	
Organiz Name:	USGS California Water Science Center	Aquifer Name:	Basin and Range basin-fill aquifers
Well Depth:	500	Aquifer Type:	
Well Depth Unit:	ft	Country Code:	US
Well Hole Depth:	500	Provider Name:	NWIS
W Hole Depth Unit:	ft	County:	LOS ANGELES
Construction Date:	19560101	Latitude:	34.68776260000000
Source Map Scale:	24000	Longitude:	-118.2803546000000
Monitoring Loc Name:	007N013W20B002S		
Monitoring Loc Identifier:	USGS-344116118164601		
Monitoring Loc Type:	Well		
Monitoring Loc Desc:			
HUC Eight Digit Code:	18090206		
Drainage Area:			
Drainage Area Unit:			
Contrib Drainage Area:			
Contrib Drainage Area Unit:			
Horizontal Accuracy:	1		
Horizontal Accuracy Unit:	seconds		
Horizontal Collection Mthd:	Interpolated from MAP.		
Horiz Coord Refer System:	NAD83		
Vertical Measure:	2398.00		
Vertical Measure Unit:	feet		
Vertical Accuracy:	010		
Vertical Accuracy Unit:	feet		
Vertical Collection Mthd:	Interpolated from topographic map.		
Vert Coord Refer System:	NGVD29		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
40	ENE	0.60	3,153.48	2,399.33	FED USGS

Wells and Additional Sources Detail Report

Organiz Identifier:	USGS-CA	Formation Type:	
Organiz Name:	USGS California Water Science Center	Aquifer Name:	Basin and Range basin-fill aquifers
Well Depth:	307	Aquifer Type:	
Well Depth Unit:	ft	Country Code:	US
Well Hole Depth:	307	Provider Name:	NWIS
W Hole Depth Unit:	ft	County:	LOS ANGELES
Construction Date:		Latitude:	34.68831810000000
Source Map Scale:	24000	Longitude:	-118.2803546000000
Monitoring Loc Name:	007N013W20B001S		
Monitoring Loc Identifier:	USGS-344118118164601		
Monitoring Loc Type:	Well		
Monitoring Loc Desc:			
HUC Eight Digit Code:	18090206		
Drainage Area:			
Drainage Area Unit:			
Contrib Drainage Area:			
Contrib Drainage Area Unit:			
Horizontal Accuracy:	1		
Horizontal Accuracy Unit:	seconds		
Horizontal Collection Mthd:	Interpolated from MAP.		
Horiz Coord Refer System:	NAD83		
Vertical Measure:	2398.00		
Vertical Measure Unit:	feet		
Vertical Accuracy:	010		
Vertical Accuracy Unit:	feet		
Vertical Collection Mthd:	Interpolated from topographic map.		
Vert Coord Refer System:	NGVD29		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
42	SE	0.71	3,773.52	2,427.37	FED USGS

Organiz Identifier:	USGS-CA	Formation Type:	
Organiz Name:	USGS California Water Science Center	Aquifer Name:	Basin and Range basin-fill aquifers
Well Depth:		Aquifer Type:	
Well Depth Unit:		Country Code:	US
Well Hole Depth:		Provider Name:	NWIS
W Hole Depth Unit:		County:	LOS ANGELES
Construction Date:		Latitude:	34.67526310000000
Source Map Scale:	24000	Longitude:	-118.2797990000000
Monitoring Loc Name:	007N013W20Q001S		
Monitoring Loc Identifier:	USGS-344031118164401		
Monitoring Loc Type:	Well		
Monitoring Loc Desc:			
HUC Eight Digit Code:	18090206		

Wells and Additional Sources Detail Report

Drainage Area:
 Drainage Area Unit:
 Contrib Drainage Area:
 Contrib Drainage Area Unit:
 Horizontal Accuracy: 1
 Horizontal Accuracy Unit: seconds
 Horizontal Collection Mthd: Interpolated from MAP.
 Horiz Coord Refer System: NAD83
 Vertical Measure: 2427.00
 Vertical Measure Unit: feet
 Vertical Accuracy: 010
 Vertical Accuracy Unit: feet
 Vertical Collection Mthd: Interpolated from topographic map.
 Vert Coord Refer System: NGVD29

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
43	E	0.76	4,031.41	2,391.25	FED USGS

Organiz Identifier:	USGS-CA	Formation Type:	
Organiz Name:	USGS California Water Science Center	Aquifer Name:	Other aquifers
Well Depth:		Aquifer Type:	
Well Depth Unit:		Country Code:	US
Well Hole Depth:		Provider Name:	NWIS
W Hole Depth Unit:		County:	LOS ANGELES
Construction Date:		Latitude:	34.68192950000000
Source Map Scale:	24000	Longitude:	-118.2759100000000
Monitoring Loc Name:	007N013W20H001S		
Monitoring Loc Identifier:	USGS-344055118163001		
Monitoring Loc Type:	Well		
Monitoring Loc Desc:			
HUC Eight Digit Code:	18090206		
Drainage Area:			
Drainage Area Unit:			
Contrib Drainage Area:			
Contrib Drainage Area Unit:			
Horizontal Accuracy:	1		
Horizontal Accuracy Unit:	seconds		
Horizontal Collection Mthd:	Interpolated from MAP.		
Horiz Coord Refer System:	NAD83		
Vertical Measure:	2388.00		
Vertical Measure Unit:	feet		
Vertical Accuracy:	010		
Vertical Accuracy Unit:	feet		

Wells and Additional Sources Detail Report

Vertical Collection Mthd: Interpolated from topographic map.
Vert Coord Refer System: NGVD29

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
44	E	0.76	4,031.65	2,391.20	FED USGS

Organiz Identifier:	USGS-CA	Formation Type:	
Organiz Name:	USGS California Water Science Center	Aquifer Name:	Basin and Range basin-fill aquifers
Well Depth:		Aquifer Type:	
Well Depth Unit:		Country Code:	US
Well Hole Depth:		Provider Name:	NWIS
W Hole Depth Unit:		County:	LOS ANGELES
Construction Date:		Latitude:	34.68220728000000
Source Map Scale:	24000	Longitude:	-118.2759100000000
Monitoring Loc Name:	007N013W20H002S		
Monitoring Loc Identifier:	USGS-344056118163001		
Monitoring Loc Type:	Well		
Monitoring Loc Desc:			
HUC Eight Digit Code:	18090206		
Drainage Area:			
Drainage Area Unit:			
Contrib Drainage Area:			
Contrib Drainage Area Unit:			
Horizontal Accuracy:	1		
Horizontal Accuracy Unit:	seconds		
Horizontal Collection Mthd:	Interpolated from MAP.		
Horiz Coord Refer System:	NAD83		
Vertical Measure:	2388.00		
Vertical Measure Unit:	feet		
Vertical Accuracy:	010		
Vertical Accuracy Unit:	feet		
Vertical Collection Mthd:	Interpolated from topographic map.		
Vert Coord Refer System:	NGVD29		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
46	N	0.83	4,361.59	2,420.29	FED USGS

Organiz Identifier:	USGS-CA	Formation Type:	
Organiz Name:	USGS California Water Science Center	Aquifer Name:	Basin and Range basin-fill aquifers
Well Depth:	601	Aquifer Type:	
Well Depth Unit:	ft	Country Code:	US
Well Hole Depth:	601	Provider Name:	NWIS
W Hole Depth Unit:	ft	County:	LOS ANGELES

Wells and Additional Sources Detail Report

Construction Date:	19550125	Latitude:	34.69581780000000
Source Map Scale:	24000	Longitude:	-118.28896590000000
Monitoring Loc Name:	007N013W17M001S		
Monitoring Loc Identifier:	USGS-344145118171701		
Monitoring Loc Type:	Well		
Monitoring Loc Desc:			
HUC Eight Digit Code:	18090206		
Drainage Area:			
Drainage Area Unit:			
Contrib Drainage Area:			
Contrib Drainage Area Unit:			
Horizontal Accuracy:	1		
Horizontal Accuracy Unit:	seconds		
Horizontal Collection Mthd:	Interpolated from MAP.		
Horiz Coord Refer System:	NAD83		
Vertical Measure:	2418.00		
Vertical Measure Unit:	feet		
Vertical Accuracy:	010		
Vertical Accuracy Unit:	feet		
Vertical Collection Mthd:	Interpolated from topographic map.		
Vert Coord Refer System:	NGVD29		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
47	WNW	0.84	4,429.60	2,496.32	FED USGS

Organiz Identifier:	USGS-CA	Formation Type:	
Organiz Name:	USGS California Water Science Center	Aquifer Name:	Basin and Range basin-fill aquifers
Well Depth:	128	Aquifer Type:	
Well Depth Unit:	ft	Country Code:	US
Well Hole Depth:		Provider Name:	NWIS
W Hole Depth Unit:		County:	LOS ANGELES
Construction Date:		Latitude:	34.68581819000000
Source Map Scale:	24000	Longitude:	-118.30813330000000
Monitoring Loc Name:	007N014W24A001S		
Monitoring Loc Identifier:	USGS-344109118182601		
Monitoring Loc Type:	Well		
Monitoring Loc Desc:			
HUC Eight Digit Code:	18090206		
Drainage Area:			
Drainage Area Unit:			
Contrib Drainage Area:			
Contrib Drainage Area Unit:			
Horizontal Accuracy:	1		
Horizontal Accuracy Unit:	seconds		

Wells and Additional Sources Detail Report

Horizontal Collection Mthd: Interpolated from MAP.
 Horiz Coord Refer System: NAD83
 Vertical Measure: 2490.00
 Vertical Measure Unit: feet
 Vertical Accuracy: 010
 Vertical Accuracy Unit: feet
 Vertical Collection Mthd: Interpolated from topographic map.
 Vert Coord Refer System: NGVD29

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
48	N	0.85	4,462.63	2,420.26	FED USGS

Organiz Identifier:	USGS-CA	Formation Type:	
Organiz Name:	USGS California Water Science Center	Aquifer Name:	Basin and Range basin-fill aquifers
Well Depth:	450	Aquifer Type:	
Well Depth Unit:	ft	Country Code:	US
Well Hole Depth:	450	Provider Name:	NWIS
W Hole Depth Unit:	ft	County:	LOS ANGELES
Construction Date:	19270101	Latitude:	34.69609557000000
Source Map Scale:	24000	Longitude:	-118.2889659000000
Monitoring Loc Name:	007N013W17M002S		
Monitoring Loc Identifier:	USGS-344146118171701		
Monitoring Loc Type:	Well		
Monitoring Loc Desc:			
HUC Eight Digit Code:	18090206		
Drainage Area:			
Drainage Area Unit:			
Contrib Drainage Area:			
Contrib Drainage Area Unit:			
Horizontal Accuracy:	1		
Horizontal Accuracy Unit:	seconds		
Horizontal Collection Mthd:	Interpolated from MAP.		
Horiz Coord Refer System:	NAD83		
Vertical Measure:	2418.00		
Vertical Measure Unit:	feet		
Vertical Accuracy:	010		
Vertical Accuracy Unit:	feet		
Vertical Collection Mthd:	Interpolated from topographic map.		
Vert Coord Refer System:	NGVD29		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
50	E	0.94	4,963.41	2,383.87	FED USGS

Wells and Additional Sources Detail Report

Organiz Identifier:	USGS-CA	Formation Type:	
Organiz Name:	USGS California Water Science Center	Aquifer Name:	Basin and Range basin-fill aquifers
Well Depth:		Aquifer Type:	
Well Depth Unit:		Country Code:	US
Well Hole Depth:		Provider Name:	NWIS
W Hole Depth Unit:		County:	LOS ANGELES
Construction Date:		Latitude:	34.68470718000000
Source Map Scale:	24000	Longitude:	-118.2728544000000
Monitoring Loc Name:	007N013W20H003S		
Monitoring Loc Identifier:	USGS-344105118161901		
Monitoring Loc Type:	Well		
Monitoring Loc Desc:			
HUC Eight Digit Code:	18090206		
Drainage Area:			
Drainage Area Unit:			
Contrib Drainage Area:			
Contrib Drainage Area Unit:			
Horizontal Accuracy:	1		
Horizontal Accuracy Unit:	seconds		
Horizontal Collection Mthd:	Interpolated from MAP.		
Horiz Coord Refer System:	NAD83		
Vertical Measure:	2379.00		
Vertical Measure Unit:	feet		
Vertical Accuracy:	010		
Vertical Accuracy Unit:	feet		
Vertical Collection Mthd:	Interpolated from topographic map.		
Vert Coord Refer System:	NGVD29		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
51	E	0.94	4,980.41	2,383.17	FED USGS

Organiz Identifier:	USGS-CA	Formation Type:	
Organiz Name:	USGS California Water Science Center	Aquifer Name:	Basin and Range basin-fill aquifers
Well Depth:	240	Aquifer Type:	
Well Depth Unit:	ft	Country Code:	US
Well Hole Depth:	240	Provider Name:	NWIS
W Hole Depth Unit:	ft	County:	LOS ANGELES
Construction Date:	19300101	Latitude:	34.68526270000000
Source Map Scale:	24000	Longitude:	-118.2728544000000
Monitoring Loc Name:	007N013W20H004S		
Monitoring Loc Identifier:	USGS-344107118161901		
Monitoring Loc Type:	Well		
Monitoring Loc Desc:			
HUC Eight Digit Code:	18090206		

Wells and Additional Sources Detail Report

Drainage Area:
 Drainage Area Unit:
 Contrib Drainage Area:
 Contrib Drainage Area Unit:
 Horizontal Accuracy: 1
 Horizontal Accuracy Unit: seconds
 Horizontal Collection Mthd: Interpolated from MAP.
 Horiz Coord Refer System: NAD83
 Vertical Measure: 2379.00
 Vertical Measure Unit: feet
 Vertical Accuracy: 010
 Vertical Accuracy Unit: feet
 Vertical Collection Mthd: Interpolated from topographic map.
 Vert Coord Refer System: NGVD29

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
52	NE	0.98	5,179.79	2,390.55	FED USGS

Organiz Identifier:	USGS-CA	Formation Type:	
Organiz Name:	USGS California Water Science Center	Aquifer Name:	Basin and Range basin-fill aquifers
Well Depth:	300	Aquifer Type:	
Well Depth Unit:	ft	Country Code:	US
Well Hole Depth:	300	Provider Name:	NWIS
W Hole Depth Unit:	ft	County:	LOS ANGELES
Construction Date:	18900101	Latitude:	34.69304016000000
Source Map Scale:	24000	Longitude:	-118.2761878000000
Monitoring Loc Name:	007N013W17Z002S		
Monitoring Loc Identifier:	USGS-344135118163101		
Monitoring Loc Type:	Well		
Monitoring Loc Desc:			
HUC Eight Digit Code:	18090206		
Drainage Area:			
Drainage Area Unit:			
Contrib Drainage Area:			
Contrib Drainage Area Unit:			
Horizontal Accuracy:	1		
Horizontal Accuracy Unit:	seconds		
Horizontal Collection Mthd:	Interpolated from MAP.		
Horiz Coord Refer System:	NAD83		
Vertical Measure:	2389.00		
Vertical Measure Unit:	feet		
Vertical Accuracy:	010		
Vertical Accuracy Unit:	feet		

Wells and Additional Sources Detail Report

Vertical Collection Mthd: Interpolated from topographic map.
Vert Coord Refer System: NGVD29

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
53	E	0.98	5,200.36	2,383.12	FED USGS

Organiz Identifier:	USGS-CA	Formation Type:	
Organiz Name:	USGS California Water Science Center	Aquifer Name:	Basin and Range basin-fill aquifers
Well Depth:		Aquifer Type:	
Well Depth Unit:		Country Code:	US
Well Hole Depth:		Provider Name:	NWIS
W Hole Depth Unit:		County:	LOS ANGELES
Construction Date:	19211004	Latitude:	34.68192950000000
Source Map Scale:	24000	Longitude:	-118.2720210000000
Monitoring Loc Name:	007N013W20Z001S		
Monitoring Loc Identifier:	USGS-344055118161601		
Monitoring Loc Type:	Well		
Monitoring Loc Desc:			
HUC Eight Digit Code:	18090206		
Drainage Area:			
Drainage Area Unit:			
Contrib Drainage Area:			
Contrib Drainage Area Unit:			
Horizontal Accuracy:	1		
Horizontal Accuracy Unit:	seconds		
Horizontal Collection Mthd:	Interpolated from MAP.		
Horiz Coord Refer System:	NAD83		
Vertical Measure:	2375.00		
Vertical Measure Unit:	feet		
Vertical Accuracy:	010		
Vertical Accuracy Unit:	feet		
Vertical Collection Mthd:	Interpolated from topographic map.		
Vert Coord Refer System:	NGVD29		

Periodic Groundwater Level Measurement Locations

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
2	NNE	0.08	422.27	2,432.81	MONITOR WELLS

Site Code:	346850N1182896W001	Basin ID:	
State Well No:	07N13W20E002S	Basin Code:	6-044
Station ID:	30375	Basin Name:	Antelope Valley
WCR No:		Basin Region Code:	6
Well Depth:		Basin Region Desc:	San Joaquin River
Well Use:	Unknown	Basin Region Actv:	Y

Wells and Additional Sources Detail Report

Well Type:	Unknown	Basin Region Order:	6
Well Name:		County Name:	Los Angeles
Latitude:	34.685	WLM Method:	
Longitude:	-118.29	WLM Accuracy:	
Ground Surface Elevation:	2426.81		
GSE Accuracy:	Unknown		
GSE Method:	Unknown		
Monitoring Program:	VOLUNTARY		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
4	SE	0.13	681.09	2,437.48	MONITOR WELLS

Site Code:	346805N1182885W001	Basin ID:	
State Well No:	07N13W20M001S	Basin Code:	6-044
Station ID:	30376	Basin Name:	Antelope Valley
WCR No:		Basin Region Code:	6
Well Depth:		Basin Region Desc:	San Joaquin River
Well Use:	Unknown	Basin Region Actv:	Y
Well Type:	Unknown	Basin Region Order:	6
Well Name:		County Name:	Los Angeles
Latitude:	34.6805	WLM Method:	
Longitude:	-118.288	WLM Accuracy:	
Ground Surface Elevation:	2434.82		
GSE Accuracy:	Unknown		
GSE Method:	Unknown		
Monitoring Program:	VOLUNTARY		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
10	N	0.25	1,327.20	2,432.99	MONITOR WELLS

Site Code:	346875N1182921W001	Basin ID:	
State Well No:	07N13W19A004S	Basin Code:	6-044
Station ID:	30374	Basin Name:	Antelope Valley
WCR No:		Basin Region Code:	6
Well Depth:		Basin Region Desc:	San Joaquin River
Well Use:	Unknown	Basin Region Actv:	Y
Well Type:	Unknown	Basin Region Order:	6
Well Name:		County Name:	Los Angeles
Latitude:	34.6875	WLM Method:	
Longitude:	-118.292	WLM Accuracy:	
Ground Surface Elevation:	2429.81		
GSE Accuracy:	Unknown		
GSE Method:	Unknown		
Monitoring Program:	VOLUNTARY		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
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Wells and Additional Sources Detail Report

14 N 0.29 1,509.14 2,432.48 MONITOR WELLS

Site Code:	346880N1182918W001	Basin ID:	
State Well No:	07N13W19A001S	Basin Code:	6-044
Station ID:	30373	Basin Name:	Antelope Valley
WCR No:		Basin Region Code:	6
Well Depth:		Basin Region Desc:	San Joaquin River
Well Use:	Unknown	Basin Region Actv:	Y
Well Type:	Unknown	Basin Region Order:	6
Well Name:		County Name:	Los Angeles
Latitude:	34.688	WLM Method:	
Longitude:	-118.292	WLM Accuracy:	
Ground Surface Elevation:	2426.81		
GSE Accuracy:	Unknown		
GSE Method:	Unknown		
Monitoring Program:	VOLUNTARY		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
22	WNW	0.40	2,092.26	2,476.36	MONITOR WELLS

Site Code:	346861N1182996W001	Basin ID:	
State Well No:	07N13W19D001S	Basin Code:	6-044
Station ID:	9154	Basin Name:	Antelope Valley
WCR No:		Basin Region Code:	6
Well Depth:		Basin Region Desc:	San Joaquin River
Well Use:	Unknown	Basin Region Actv:	Y
Well Type:	Unknown	Basin Region Order:	6
Well Name:		County Name:	Los Angeles
Latitude:	34.6861	WLM Method:	
Longitude:	-118.3	WLM Accuracy:	
Ground Surface Elevation:	2472.81		
GSE Accuracy:	Unknown		
GSE Method:	Unknown		
Monitoring Program:	VOLUNTARY		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
29	NW	0.49	2,589.61	2,456.43	MONITOR WELLS

Site Code:	346894N1182988W001	Basin ID:	
State Well No:	07N13W18Q001S	Basin Code:	6-044
Station ID:	30372	Basin Name:	Antelope Valley
WCR No:		Basin Region Code:	6
Well Depth:		Basin Region Desc:	San Joaquin River
Well Use:	Unknown	Basin Region Actv:	Y
Well Type:	Unknown	Basin Region Order:	6

Wells and Additional Sources Detail Report

Well Name:		County Name:	Los Angeles
Latitude:	34.6894	WLM Method:	
Longitude:	-118.299	WLM Accuracy:	
Ground Surface Elevation:	2452.81		
GSE Accuracy:	Unknown		
GSE Method:	Unknown		
Monitoring Program:	VOLUNTARY		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
30	N	0.50	2,637.12	2,434.27	MONITOR WELLS

Site Code:	346911N1182921W001	Basin ID:	
State Well No:	07N13W18R001S	Basin Code:	6-044
Station ID:	9152	Basin Name:	Antelope Valley
WCR No:		Basin Region Code:	6
Well Depth:		Basin Region Desc:	San Joaquin River
Well Use:	Unknown	Basin Region Actv:	Y
Well Type:	Unknown	Basin Region Order:	6
Well Name:		County Name:	Los Angeles
Latitude:	34.6911	WLM Method:	
Longitude:	-118.292	WLM Accuracy:	
Ground Surface Elevation:	2432.8		
GSE Accuracy:	Unknown		
GSE Method:	Unknown		
Monitoring Program:	VOLUNTARY		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
37	ENE	0.55	2,890.59	2,400.97	MONITOR WELLS

Site Code:	346878N1182813W001	Basin ID:	
State Well No:	07N13W20B002S	Basin Code:	6-044
Station ID:	9155	Basin Name:	Antelope Valley
WCR No:		Basin Region Code:	6
Well Depth:		Basin Region Desc:	San Joaquin River
Well Use:	Unknown	Basin Region Actv:	Y
Well Type:	Unknown	Basin Region Order:	6
Well Name:		County Name:	Los Angeles
Latitude:	34.6878	WLM Method:	
Longitude:	-118.281	WLM Accuracy:	
Ground Surface Elevation:	2400.8		
GSE Accuracy:	Unknown		
GSE Method:	Unknown		
Monitoring Program:	VOLUNTARY		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
41	E	0.70	3,703.90	2,393.87	MONITOR WELLS

Wells and Additional Sources Detail Report

Site Code:	346819N1182768W001	Basin ID:	
State Well No:	07N13W20H001S	Basin Code:	6-044
Station ID:	9156	Basin Name:	Antelope Valley
WCR No:		Basin Region Code:	6
Well Depth:		Basin Region Desc:	San Joaquin River
Well Use:	Unknown	Basin Region Actv:	Y
Well Type:	Unknown	Basin Region Order:	6
Well Name:		County Name:	Los Angeles
Latitude:	34.6819	WLM Method:	
Longitude:	-118.277	WLM Accuracy:	
Ground Surface Elevation:	2390.81		
GSE Accuracy:	Unknown		
GSE Method:	Unknown		
Monitoring Program:	VOLUNTARY		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
45	N	0.82	4,352.02	2,422.68	MONITOR WELLS

Site Code:	346958N1182899W001	Basin ID:	
State Well No:	07N13W17M001S	Basin Code:	6-044
Station ID:	30369	Basin Name:	Antelope Valley
WCR No:		Basin Region Code:	6
Well Depth:		Basin Region Desc:	San Joaquin River
Well Use:	Unknown	Basin Region Actv:	Y
Well Type:	Unknown	Basin Region Order:	6
Well Name:		County Name:	Los Angeles
Latitude:	34.6958	WLM Method:	
Longitude:	-118.29	WLM Accuracy:	
Ground Surface Elevation:	2420.79		
GSE Accuracy:	Unknown		
GSE Method:	Unknown		
Monitoring Program:	VOLUNTARY		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
54	E	0.99	5,206.75	2,383.12	MONITOR WELLS

Site Code:	346819N1182720W001	Basin ID:	
State Well No:	07N13W20Z001S	Basin Code:	6-044
Station ID:	9157	Basin Name:	Antelope Valley
WCR No:		Basin Region Code:	6
Well Depth:		Basin Region Desc:	San Joaquin River
Well Use:	Unknown	Basin Region Actv:	Y
Well Type:	Unknown	Basin Region Order:	6
Well Name:		County Name:	Los Angeles

Wells and Additional Sources Detail Report

Latitude:	34.6819	WLM Method:	
Longitude:	-118.272	WLM Accuracy:	
Ground Surface Elevation:	2377.81		
GSE Accuracy:	Unknown		
GSE Method:	Unknown		
Monitoring Program:	VOLUNTARY		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
55	NE	0.99	5,236.96	2,389.95	MONITOR WELLS

Site Code:	346931N1182762W001	Basin ID:	
State Well No:	07N13W17Z002S	Basin Code:	6-044
Station ID:	9147	Basin Name:	Antelope Valley
WCR No:		Basin Region Code:	6
Well Depth:		Basin Region Desc:	San Joaquin River
Well Use:	Unknown	Basin Region Actv:	Y
Well Type:	Unknown	Basin Region Order:	6
Well Name:		County Name:	Los Angeles
Latitude:	34.6931	WLM Method:	
Longitude:	-118.276	WLM Accuracy:	
Ground Surface Elevation:	2391.79		
GSE Accuracy:	Unknown		
GSE Method:	Unknown		
Monitoring Program:	VOLUNTARY		

Well Completion Reports

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
8	W	0.25	1,297.27	2,490.64	WATER WELLS

WCR No:	WCR0256939	Decimal Lat(OSWCR):	34.68193
Decimal Latitude:	34.68193	Decim Long(OSWCR):	-118.29789
Decimal Longitude:	-118.29789		
Location:			
City:			
County:	Los Angeles		
Location(OSWCR):			
City(OSWCR):			
County(OSWCR):	Los Angeles		
Original Source:	California Department of Water Resources - OSWCR(Well Numbers); California Department of Water Resources - Well Completion Reports		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
8	W	0.25	1,297.27	2,490.64	WATER WELLS

WCR No:	WCR1952-001482	Decimal Lat(OSWCR):	34.68193
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Wells and Additional Sources Detail Report

Decimal Latitude: 34.68193 Decim Long(OSWCR): -118.29789
Decimal Longitude: -118.29789
Location:
City:
County: Los Angeles
Location(OSWCR):
City(OSWCR):
County(OSWCR): Los Angeles
Original Source: California Department of Water Resources - OSWCR(Well Numbers); California Department of Water Resources - Well Completion Reports

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
8	W	0.25	1,297.27	2,490.64	WATER WELLS

WCR No: WCR1952-001468 Decimal Lat(OSWCR): 34.68193
Decimal Latitude: 34.68193 Decim Long(OSWCR): -118.29789
Decimal Longitude: -118.29789
Location: AVE J, 100TH ST WEST
City: Lancaster
County: Los Angeles
Location(OSWCR): AVE J, 100TH ST WEST
City(OSWCR): Lancaster
County(OSWCR): Los Angeles
Original Source: California Department of Water Resources - OSWCR(Well Numbers); California Department of Water Resources - Well Completion Reports

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
8	W	0.25	1,297.27	2,490.64	WATER WELLS

WCR No: WCR2016-007506 Decimal Lat(OSWCR): 34.68193
Decimal Latitude: 34.68193 Decim Long(OSWCR): -118.29789
Decimal Longitude: -118.29789
Location: 9020 W Avenue J
City: Lancaster
County: Los Angeles
Location(OSWCR): 9020 W Avenue J
City(OSWCR): Lancaster
County(OSWCR): Los Angeles
Original Source: California Department of Water Resources - OSWCR(Well Numbers); California Department of Water Resources - Well Completion Reports

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
32	E	0.51	2,666.77	2,402.53	WATER WELLS

WCR No: WCR2005-014454 Decimal Lat(OSWCR): 34.68194
Decimal Latitude: 34.68194 Decim Long(OSWCR): -118.28045
Decimal Longitude: -118.28045

Wells and Additional Sources Detail Report

Location: 44131 80th Street West
 City: Lancaster
 County: Los Angeles
 Location(OSWCR): 44131 80th Street West
 City(OSWCR): Lancaster
 County(OSWCR): Los Angeles
 Original Source: California Department of Water Resources - OSWCR(Well Numbers); California Department of Water Resources - Well Completion Reports

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
32	E	0.51	2,666.77	2,402.53	WATER WELLS

WCR No: WCR0131075
 Decimal Latitude: 34.68194
 Decimal Longitude: -118.28045
 Location:
 City:
 County: Los Angeles
 Location(OSWCR):
 City(OSWCR):
 County(OSWCR): Los Angeles
 Original Source: California Department of Water Resources - OSWCR(Well Numbers); California Department of Water Resources - Well Completion Reports

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
32	E	0.51	2,666.77	2,402.53	WATER WELLS

WCR No: WCR0132253
 Decimal Latitude: 34.68194
 Decimal Longitude: -118.28045
 Location:
 City:
 County: Los Angeles
 Location(OSWCR):
 City(OSWCR):
 County(OSWCR): Los Angeles
 Original Source: California Department of Water Resources - OSWCR(Well Numbers); California Department of Water Resources - Well Completion Reports

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
32	E	0.51	2,666.77	2,402.53	WATER WELLS

WCR No: WCR0180143
 Decimal Latitude: 34.68194
 Decimal Longitude: -118.28045
 Location:
 City:

Wells and Additional Sources Detail Report

County: Los Angeles
 Location(OSWCR):
 City(OSWCR):
 County(OSWCR): Los Angeles
 Original Source: California Department of Water Resources - OSWCR(Well Numbers); California Department of Water Resources - Well Completion Reports

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
32	E	0.51	2,666.77	2,402.53	WATER WELLS

WCR No: WCR1979-006622
 Decimal Latitude: 34.68194
 Decimal Longitude: -118.28045
 Location: AVE K, 85TH ST
 City: Lancaster
 County: Los Angeles
 Location(OSWCR): AVE K, 85TH ST
 City(OSWCR): Lancaster
 County(OSWCR): Los Angeles
 Original Source: California Department of Water Resources - OSWCR(Well Numbers); California Department of Water Resources - Well Completion Reports

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
32	E	0.51	2,666.77	2,402.53	WATER WELLS

WCR No: WCR1987-012166
 Decimal Latitude: 34.68194
 Decimal Longitude: -118.28045
 Location: W AVE J
 City: Lancaster
 County: Los Angeles
 Location(OSWCR): W AVE J
 City(OSWCR): Lancaster
 County(OSWCR): Los Angeles
 Original Source: California Department of Water Resources - OSWCR(Well Numbers); California Department of Water Resources - Well Completion Reports

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
36	N	0.54	2,847.18	2,432.38	WATER WELLS

WCR No: WCR2021-005063
 Decimal Latitude: 34.6916722
 Decimal Longitude: -118.2912333
 Location: 44505 W 90th St. West ST
 City: Lancaster
 County: Los Angeles
 Location(OSWCR): 44505 W 90th St. West ST

Wells and Additional Sources Detail Report

City(OSWCR): Lancaster
 County(OSWCR): Los Angeles
 Original Source: California Department of Water Resources - OSWCR(Well Numbers); California Department of Water Resources - Well Completion Reports

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
49	NNW	0.91	4,780.64	2,438.30	WATER WELLS

WCR No: WCR2007-009560
 Decimal Latitude: 34.69649
 Decimal Longitude: -118.29798
 Location: 9150 W Kildare Street
 City: Lancaster
 County: Los Angeles
 Location(OSWCR): 9150 W Kildare Street
 City(OSWCR): Lancaster
 County(OSWCR): Los Angeles
 Original Source: California Department of Water Resources - OSWCR(Well Numbers); California Department of Water Resources - Well Completion Reports

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
49	NNW	0.91	4,780.64	2,438.30	WATER WELLS

WCR No: WCR0096494
 Decimal Latitude: 34.69649
 Decimal Longitude: -118.29798
 Location:
 City:
 County: Los Angeles
 Location(OSWCR):
 City(OSWCR):
 County(OSWCR): Los Angeles
 Original Source: California Department of Water Resources - OSWCR(Well Numbers); California Department of Water Resources - Well Completion Reports

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
49	NNW	0.91	4,780.64	2,438.30	WATER WELLS

WCR No: WCR1776-004367
 Decimal Latitude: 34.69649
 Decimal Longitude: -118.29798
 Location: 90TH ST WEST
 City:
 County: Los Angeles
 Location(OSWCR): 90TH ST WEST
 City(OSWCR):
 County(OSWCR): Los Angeles

Wells and Additional Sources Detail Report

Original Source: California Department of Water Resources - OSWCR(Well Numbers); California Department of Water Resources - Well Completion Reports

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
49	NNW	0.91	4,780.64	2,438.30	WATER WELLS

WCR No: WCR2007-009559 Decimal Lat(OSWCR): 34.69649
 Decimal Latitude: 34.69649 Decim Long(OSWCR): -118.29798
 Decimal Longitude: -118.29798
 Location: 44852 91st Street West
 City: Lancaster
 County: Los Angeles
 Location(OSWCR): 44852 91st Street West
 City(OSWCR): Lancaster
 County(OSWCR): Los Angeles
 Original Source: California Department of Water Resources - OSWCR(Well Numbers); California Department of Water Resources - Well Completion Reports

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
49	NNW	0.91	4,780.64	2,438.30	WATER WELLS

WCR No: WCR2006-012112 Decimal Lat(OSWCR): 34.69649
 Decimal Latitude: 34.69649 Decim Long(OSWCR): -118.29798
 Decimal Longitude: -118.29798
 Location: 44949 91st Street West
 City: Lancaster
 County: Los Angeles
 Location(OSWCR): 44949 91st Street West
 City(OSWCR): Lancaster
 County(OSWCR): Los Angeles
 Original Source: California Department of Water Resources - OSWCR(Well Numbers); California Department of Water Resources - Well Completion Reports

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
49	NNW	0.91	4,780.64	2,438.30	WATER WELLS

WCR No: WCR2007-009557 Decimal Lat(OSWCR): 34.69649
 Decimal Latitude: 34.69649 Decim Long(OSWCR): -118.29798
 Decimal Longitude: -118.29798
 Location: 44921 91st Street West
 City: Lancaster
 County: Los Angeles
 Location(OSWCR): 44921 91st Street West
 City(OSWCR): Lancaster
 County(OSWCR): Los Angeles
 Original Source: California Department of Water Resources - OSWCR(Well Numbers); California Department of Water Resources - Well Completion Reports

Wells and Additional Sources Detail Report

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
49	NNW	0.91	4,780.64	2,438.30	WATER WELLS

WCR No:	WCR2007-009558	Decimal Lat(OSWCR):	34.69649
Decimal Latitude:	34.69649	Decim Long(OSWCR):	-118.29798
Decimal Longitude:	-118.29798		
Location:	44851 91st Street West		
City:	Lancaster		
County:	Los Angeles		
Location(OSWCR):	44851 91st Street West		
City(OSWCR):	Lancaster		
County(OSWCR):	Los Angeles		
Original Source:	California Department of Water Resources - OSWCR(Well Numbers); California Department of Water Resources - Well Completion Reports		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
49	NNW	0.91	4,780.64	2,438.30	WATER WELLS

WCR No:	WCR2000-011416	Decimal Lat(OSWCR):	34.69649
Decimal Latitude:	34.69649	Decim Long(OSWCR):	-118.29798
Decimal Longitude:	-118.29798		
Location:	Pine Canyon Road		
City:	Lake Hughes		
County:	Los Angeles		
Location(OSWCR):	Pine Canyon Road		
City(OSWCR):	Lake Hughes		
County(OSWCR):	Los Angeles		
Original Source:	California Department of Water Resources - OSWCR(Well Numbers); California Department of Water Resources - Well Completion Reports		

Map Key	Direction	Distance (mi)	Distance (ft)	Elevation (ft)	DB
49	NNW	0.91	4,780.64	2,438.30	WATER WELLS

WCR No:	WCR1986-010212	Decimal Lat(OSWCR):	34.69649
Decimal Latitude:	34.69649	Decim Long(OSWCR):	-118.29798
Decimal Longitude:	-118.29798		
Location:	96TH ST		
City:	Lancaster		
County:	Los Angeles		
Location(OSWCR):	96TH ST		
City(OSWCR):	Lancaster		
County(OSWCR):	Los Angeles		
Original Source:	California Department of Water Resources - OSWCR(Well Numbers); California Department of Water Resources - Well Completion Reports		

Radon Information

This section lists any relevant radon information found for the target property.

Federal EPA Radon Zone for *LOS ANGELES* County: **2**

Zone 1: Counties with predicted average indoor radon screening levels greater than 4 pCi/L

Zone 2: Counties with predicted average indoor radon screening levels from 2 to 4 pCi/L

Zone 3: Counties with predicted average indoor radon screening levels less than 2 pCi/L

Federal Area Radon Information for *LOS ANGELES* County

No Measures/Homes:	69
Geometric Mean:	0.4
Arithmetic Mean:	0.7
Median:	0.5
Standard Deviation:	1
Maximum:	5.6
% >4 pCi/L:	1
% >20 pCi/L:	0
Notes on Data Table:	TABLE 1. Screening indoor radon data from the EPA/State Residential Radon Survey of California conducted during 1989-90. Data represent 2-7 day charcoal canister measurements from the lowest level of each home tested.

Federal Sources

FEMA National Flood Hazard Layer

FEMA FLOOD

The National Flood Hazard Layer (NFHL) data incorporates Flood Insurance Rate Map (FIRM) databases published by the Federal Emergency Management Agency (FEMA), and any Letters Of Map Revision (LOMRs) that have been issued against those databases since their publication date. The FIRM Database is the digital, geospatial version of the flood hazard information shown on the published paper FIRMs. The FIRM Database depicts flood risk information and supporting data used to develop the risk data. The FIRM Database is derived from Flood Insurance Studies (FISs), previously published FIRMs, flood hazard analyses performed in support of the FISs and FIRMs, and new mapping data, where available.

Indoor Radon Data

INDOOR RADON

Indoor radon measurements tracked by the Environmental Protection Agency(EPA) and the State Residential Radon Survey.

Public Water Systems Violations and Enforcement Data

PWSV

List of drinking water violations and enforcement actions from the Safe Drinking Water Information System (SDWIS) made available by the Drinking Water Protection Division of the US EPA's Office of Groundwater and Drinking Water. Enforcement sensitive actions are not included in the data released by the EPA. Address information provided in SWDIS may correspond either with the physical location of the water system, or with a contact address.

Radon Zone Level

RADON ZONE

Areas showing the level of Radon Zones (level 1, 2 or 3) by county. This data is maintained by the Environmental Protection Agency (EPA).

Safe Drinking Water Information System (SDWIS)

SDWIS

The Safe Drinking Water Information System (SDWIS) contains information about public water systems as reported to US Environmental Protection Agency (EPA) by the states. Addresses may correspond with the location of the water system, or with a contact address.

Soil Survey Geographic database

SSURGO

The Soil Survey Geographic database (SSURGO) contains information about soil as collected by the National Cooperative Soil Survey at the Natural Resources Conservation Service (NRCS). Soil maps outline areas called map units. The map units are linked to soil properties in a database. Each map unit may contain one to three major components and some minor components.

U.S. Fish & Wildlife Service Wetland Data

US WETLAND

The U.S. Fish & Wildlife Service Wetland layer represents the approximate location and type of wetlands and deepwater habitats in the United States.

USGS Current Topo

US TOPO

US Topo topographic maps are produced by the National Geospatial Program of the U.S. Geological Survey (USGS). The project was launched in late 2009, and the term "US Topo" refers specifically to quadrangle topographic maps published in 2009 and later.

USGS Geology

US GEOLOGY

Seamless maps depicting geological information provided by the United States Geological Survey (USGS).

USGS National Water Information System

FED USGS

The U.S. Geological Survey (USGS)'s National Water Information System (NWIS) is the nation's principal repository of water resources data. This database includes comprehensive information of well-construction details, time-series data for gage height, streamflow, groundwater level, and precipitation and water use data.

Wells from NWIS

FED USGS

The U.S. Geological Survey's National Water Information System (NWIS) is the nation's principal repository of water resources data. The NWIS includes comprehensive information of well-construction details, time-series data for gage height, streamflow, groundwater level, and precipitation and water use data. This NWIS dataset contains select Site Types from the overall NWIS Sites data, limited to the following Group Site Types only: Groundwater Group Site Types: Well, Collector or Ranney type well, Hyporheic-zone well,

Appendix

Interconnected Wells, Multiple wells; Spring Group Site Type: Spring; and Other Group Site Types: Aggregate groundwater use, Cistern.

State Sources

Oil and Gas Wells

OGW

A list of Oil and Gas well locations. This is provided by California's Department of Conservation Division of Oil, Gas and Geothermal Resources.

Periodic Groundwater Level Measurement Locations

MONITOR WELLS

Locations of groundwater level monitoring wells in the Department of Water Resources (DWR)'s Periodic Groundwater Levels dataset. The DWR Periodic Groundwater Levels dataset contains seasonal and long-term groundwater level measurements collected by the Department of Water Resources and cooperating agencies.

Well Completion Reports

WATER WELLS

List of wells from the Well Completion Reports data made available by the California Department of Water Resources' (DWR) Online System for Well Completion Reports (OSWCR). Please note that the majority of well completion reports have been spatially registered to the center of the 1x1 mile Public Land Survey System section that the well is located in.

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APPENDIX D: QUALIFICATIONS



Education

CSU San Bernardino
B.A. Environmental Studies, Minor Concentration Geography

Registrations

Cal/OSHA Certified Asbestos Consultant, #16-5777
CDPH Certified Lead Inspector/Assessor #LRC-2234 and Project Monitor #LRC-2233

Training

ASTM Technical Training on Environmental Site Assessments for Commercial Real Estate (including E1527-05 Phase I Environmental Site Assessments and E1528-06 Limited Environmental Due Diligence: Transaction Screen Process)
ASTM Technical Training on Environmental Site Assessments for Commercial Real Estate (including E1527-13 Phase I Environmental Site Assessments and E1528-14 Limited Environmental Due Diligence: Transaction Screen Process)
NIOSH 582 Equivalent for Sampling and Evaluating Airborne Asbestos Dust
Manufacturer's Certification in the use of the Niton and Heuresis XRF devices/associated radiation safety
40-Hour OSHA HAZWOPER certification with Annual 8-hour refreshers
Cal/OSHA Construction Fall Protection
Cal/OSHA Confined Space

Highlights

Over 18 years of experience in the environmental consulting industry:
Phase I Environmental Site Assessments
Phase II Environmental Site Assessments/Limited Subsurface Investigations
Transaction Screen Assessments
National Environmental Policy Act (NEPA) Site Assessments
Asbestos, Lead, Radon and Mold Sampling Surveys and Abatement Monitoring

Experience Summary

Ms. Yavornicky has over 18 years of relevant experience in conducting all appropriate inquiries investigations, environmental site assessments and related site investigations. She has conducted hundreds of Phase I Environmental Site Assessments (Phase I ESAs) prepared for a variety of clients, including local municipalities (including under EPA Brownfields Site Assessment Hazardous Materials and Petroleum grants for several Cities within California), school districts, financial institutions, commercial property management companies, commercial and residential developers, non-profit organizations, and major wireless carriers. She also has experience in conducting NEPA site assessments prepared for a major wireless carrier.

Ms. Yavornicky is a Cal/OSHA Certified Asbestos Consultant, qualified to conduct surveying and abatement monitoring of asbestos-containing materials. She has assisted in destructive and non-destructive sampling and abatement monitoring of schools, multi-story commercial office buildings, commercial retail centers, former agricultural land, and residential structures. She is also certified as a CDPH Lead Inspector/Assessor

and Project Monitor, qualified to conduct lead-based paint surveys/risk assessment and abatement oversight.

Project Experience

Ms. Yavornicky's relevant project experience includes the following:

Cities of Rialto, Firebaugh and Grass Valley, California. Primary author and assessor for Phase I ESAs. The properties assessed included sites deemed a Brownfield site eligible for assessment under EPA Brownfield Site Assessment Hazardous Materials and Petroleum grants. Documentation included the identification of properties with impacted groundwater, properties with a history of hazardous waste uses and releases, and former USTs which were identified as concerns to the sites in question. Assessment included numerous interviews with various Federal, State, and local agencies, as well as utility providers, property owners and others with knowledge of the sites. She also assisted with limited Asbestos and Lead-based Paint Surveys at the assessed properties.

Los Angeles Unified School District, San Bernardino Unified School District, and Alvord Unified School District, California. Author and assessor for Phase I ESAs of properties that included active school sites and proposed school sites that were developed for industrial, commercial and/or residential land uses. Properties within a 500-foot radius of the active and proposed school sites were generally included as a part of the assessment. Documentation included the identification of properties with impacted groundwater, properties with a history of hazardous waste uses and releases, and former USTs which were identified as concerns to the sites in question. Assessment included numerous interviews with various Federal, State, and local agencies, school officials, as well as utility providers, property owners and others with knowledge of the sites. She also assisted with limited Asbestos and Lead-based Paint Surveys and associated abatement monitoring at the assessed properties.

East West Bank, Wells Fargo Bank, Donahue Schriber Realty Group, Kilroy Realty, Pardee Homes, KB Homes, California. Author and assessor for Phase I ESAs and Transaction Screens of properties that included an entire town, formerly a lumber yard hub, in Northern California, as well as industrial properties including heavy manufacturing, commercial properties including agricultural farms, former motion picture studios, high-rise commercial office buildings in urbanized, downtown settings, commercial retail centers, residential properties and undeveloped land. Documentation included the identification of properties with impacted subsurface soil, soil vapor and/or groundwater from hazardous materials and/or petroleum products, including pesticides and herbicides, requiring remediation. She also assisted with limited Asbestos and Lead-based Paint Surveys and associated abatement monitoring at the assessed properties.

Mojave Desert Land Trust and The Trust for Public Land, California. Primary author and assessor for numerous Phase I ESAs and Limited Site Investigations (LSIs) requiring file review, review of historic property uses, site reconnaissance and/or the assessment of any potential environmental hazards or concerns. The properties assessed include residential, commercial, industrial, and agricultural land uses.

Verizon Wireless, California, and Nevada. Primary author and assessor, for Phase I ESAs, NEPAs, and Asbestos and Lead-based Paint Surveys. She was also responsible for QA/QC and managing the workflow. The properties assessed included raw land site builds and collocations/modifications on existing cellular towers, buildings, and non-tower structures. Work included records searches through Archaeological Information Centers, the Native American Heritage Commission, and the State Historic Preservation Office, as well as

Heidi Yavornicky

contacting individual Native American tribal leaders. She also worked with biologists and archaeologists to ensure that endangered or threatened species or habitats and cultural resources will not be impacted by proposed developments. In addition, she completed limited Asbestos and Lead-based Paint Surveys at the proposed project sites where the project scope of work would impact existing building and other non-tower structures and painted cellular towers.

T-Mobile, California, Washington, Oregon, and Idaho. Lead reviewer for Phase I ESAs, NEPAs, and Asbestos and Lead-based Paint Surveys. The properties assessed included raw land site builds and collocations/modifications on existing cellular towers, buildings, and non-tower structures. Work included review of construction drawings, coordinating with environmental vendors for the completion of relevant reports, QA/QC of the reports, and reporting business risks/required environmental regulatory tasks to the client.

Contact

hyavornicky@partneresi.com



Education

BS, Environmental Science, University of Nevada, Reno

Training

OSHA 40 Hour Hazwoper

Highlights

Ms. Mohlenkamp qualifies as an Environmental Professional with more than 5 years of environmental consulting and project management experience including preparing, reviewing, and managing all aspects of Phase I Environmental Site Assessments (ESAs) in commercial real estate transactions and large scale commercial and residential developments following the current ASTM (AAI) guidelines.

Experience Summary

Specializing in high volume and large-scale projects, Ms. Mohlenkamp has experience in all stages of environmental projects including Phase I ESAs and Phase II analysis. Ms. Mohlenkamp's technical skills include maintaining and meeting project scope and financial responsibilities; client management and communication; coordinating with professional staff, regulatory agencies, and subcontractors; reviewing and evaluating environmental data; preparing and reviewing technical writing documents; preparing project proposals; preparing presentations; and communicating with senior and junior staff.

- Project Management
- Environmental Due Diligence (Phase I ESA)
- Risk and Data Evaluation
- Client Relations and Business Development

Project Experience

Ms. Mohlenkamp's experience includes agricultural properties, industrial manufacturing facilities, plating facilities, fueling and automobile repair facilities, chemical distribution facilities, aerospace engineering facilities, former military bases, medical facilities, hotels and resorts, multi-family apartment complexes, and multi-tenant retail shopping centers with dry cleaning facilities.

Contact

lmohlenkamp@partneresi.com



Education

Bachelor of Arts Degree, Public Administration & Economics, San Diego State University
Executive MBA Program, 2000-2003

Highlights

Over 25 years of experience in the environmental and engineering consulting industry.
Deep understanding of the Commercial Real Estate business process.
Nationwide capabilities and expertise.
Vast experience in managing and delivering multi-site portfolio projects.

Experience Summary

Mark Lambson is a true veteran of the commercial real estate services industry. He has over 25 years of experience managing and performing environmental and engineering consulting projects on a national level. Mr. Lambson serves as a Principal for PARTNER and is located in PARTNER's San Diego County office. Mr. Lambson's team currently provides client management and consulting to a nationwide client base and specializes in advising "Equity" clients during the acquisition phase of commercial property transactions in the U.S., Mexico, and Canada.

Mr. Lambson has assisted clients on over 25,000 commercial real estate transactions throughout his career. His due diligence resume includes experience at all levels. This includes advising REITs, developers, property managers, retail companies, commercial real estate brokers, mortgage brokers, attorneys, lenders, universities, and real estate investment groups with the following nationwide services:

- Property Condition Assessments (PCAs)
- Individual Building System Inspections for Roof, Mechanical Electrical Plumbing + Fire/Life Safety (MEP+FLS), Elevator, Structure, Façade, Building Technology, and ADA/Accessibility
- Facility Condition Assessments (FCAs)
- Phase I Environmental Site Assessments (ESAs)
- Phase II Subsurface Investigations (Soil, soil-vapor, and groundwater sampling and analysis)
- Phase III Environmental Remediation Services & Cost Estimates
- Asbestos, Lead, Radon, Mold Sampling
- Seismic Risk Assessments and Structural Assessments (Seismic PMLs)
- Energy Audits, Benchmarking, ESG, and LEED-related services
- Hydrology, Water Conservation and Efficiency
- Fannie Mae / Freddie Mac / HUD Due Diligence
- Geotechnical and Soils Reports
- Construction Services (Doc & Cost Review, Progress Monitoring, Funds Control)
- Zoning Reports
- ALTA Surveys

Building Sciences

The One, Bel Air, California – Performed Geotechnical/Soils, Engineering, Environmental and Land Surveying for record-setting 74,000 square foot mega-mansion development that listed for \$500 million. The highest residential price tag in Los Angeles County history.

Class A Office Campus Acquisition in the San Francisco Bay Area – Performed Property Condition Assessment, MEP+FLS Report, Roof Report, Elevator Report, Structural and Seismic Assessment.

National Bank Branch Locations - ADA Compliance and Accessibility Reviews.

Environmental Assessments

Phase I and Phase II Environmental Site Assessments for a 75-acre aerospace facility in the Northwest U.S.

Over 500 Phase I Environmental Site Assessments for a national fast-food chain

Dry Cleaner Remediation projects in California, Washington, Hawaii, Arizona, Texas, Nevada, and Florida.

Environmental consulting for over 2 million acres of desert land in California, Nevada, and Arizona

Land Surveys

ALTA Surveys for 2400-unit apartment portfolio in the Midwest

Multi-Site Portfolios

113-site office portfolio acquisition for a national REIT

122-site hotel portfolio for a national lending institution

77-site grocery-anchored shopping center portfolio for prominent retail chain

55-site hotel portfolio acquisition for a private investment group

68-site healthcare portfolio acquisition for a national REIT

50-site country club/golf course portfolio acquisition for a private investment group

Energy and Water Efficiency

Energy Efficiency & Water-use consulting for a national property owner that operates and manages 30 retail and office centers on the West Coast and Texas

Affiliations

National Association of Real Estate Investment Trusts (NAREIT)

International Council of Shopping Centers (ICSC)

U.S Green Building Council (USGBC)

Society of Industrial and Office Realtors, San Diego County (SIOR)

National Association of Industrial & Office Parks, Southern California (NAIOP)

San Diego Habitat Conservancy, Board of Directors. 2010 - 2014

Speaking

Bisnow Conference, Panel Moderator, La Jolla, CA, October 2014. Moderated panel on Southern California Real Estate Trends.

Globestreet, ICSC Western States Conference, San Diego, CA May 2013. Video interview regarding retail real estate trends and due diligence.

Publications

Shopping Centers Today, 2010. Authored article on LEED applications for shopping centers and retail assets.

Contact

mlambson@partneresi.com