



AEI Consultants

Environmental & Engineering Services

October 12, 2016

PHASE I ENVIRONMENTAL SITE ASSESSMENT

Property Identification:

I-215 and Holland Road
Northwestern corner of I-215 and Holland Road
Menifee, Riverside County, California 92584

AEI Project No. 363593

Prepared For:

JPN Corporation, Inc.
P.O. Box 27240
San Diego, CA 92198

Prepared By:

AEI Consultants
2233 West 190th Street
Torrance, California 90504
(310) 798-4255

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Environmental & Engineering Services

October 12, 2016

JPN Corporation, Inc.
P.O. Box 27240
San Diego, California 92198

Subject: PHASE I ENVIRONMENTAL SITE ASSESSMENT

I-215 and Holland Road
Northwestern corner of I-215 and Holland Road, Menifee, California 92584
AEI Project No. 363593

Dear Jim Nelson:

AEI Consultants is pleased to provide the Phase I Environmental Site Assessment (Phase I ESA) report of the above referenced address. This assessment was authorized and performed in accordance with the scope of services outlined in the proposal, the scope and limitations of ASTM Standard Practice E1527-13, and the Environmental Protection Agency Standards and Practices for All Appropriate Inquiries (40 CFR Part 312).

We appreciate the opportunity to provide services to you. If you have any questions concerning this report, or if we may assist you in any other matter, please contact me at (310) 625-1124 or kbachrach@aeiconsultants.com.

Sincerely,

Ken Bachrach
AEI Consultants

PROJECT SUMMARY

**I-215 and Holland Road
Northwestern corner of I-215 and Holland Road, Menifee, Riverside County,
California 92584**

Report Section		No Further Action	REC	CREC	HREC	Other Environmental Considerations	Recommended Action
2.1	Site Location and Description	✓					
2.2	Site and Vicinity Characteristics	✓					
3.1	Historical Summary		✓				Soil Sampling
4.0	Regulatory Agency Records Review		✓				Soil Sampling
5.0	Regulatory Database Records Review	✓					
5.2	Vapor Migration	✓					
6.3	Previous Reports and Other Provided Documentation	✓					
7.1	Subject Property Reconnaissance Findings	✓					
7.2	Adjacent Property Reconnaissance Findings	✓					
8.1	Asbestos-Containing Building Materials	✓					
8.2	Lead-Based Paint	✓					
8.3	Radon	✓					
8.4	Drinking Water Sources and Lead in Drinking Water	✓					
8.5	Mold/Indoor Air Quality Issues	✓					

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LIST OF COMMONLY USED ACRONYMS

AST	Aboveground Storage Tank
AUL	Activity and Use Limitation
APCD	Air Pollution Control District
ASHERA	Asbestos Hazard Emergency Response Act
AQMD	Air Quality Management District
ACM	Asbestos-Containing Material
APN	Assessor's Parcel Number
bgs	Below Ground Surface
BTEX	Benzene, Toluene, Ethylbenzene, and Xylenes
COC	Contaminant of Concern
CERCLA	Comprehensive Environmental Response Compensation and Liability Act
CERCLIS	Comprehensive Environmental Response Compensation and Liability Information System
CREC	Controlled Recognized Environmental Condition
EPA	Environmental Protection Agency
ESA	Environmental Site Assessment
HAZNET	Facility and Manifest Data
GPR	Ground-Penetrating Radar
HWS	Hazardous Waste Site
HVAC	Heating, Ventilation and Air Conditioning
HREC	Historical Recognized Environmental Condition
LLP	Landowner Liability Protection
LQG	Large Quantity Generator
LBP	Lead-Based Paint
LCP	Lead Containing Paint
LUST	Leaking Underground Storage Tank
MSDS	Material Safety Data Sheet
MCL	Maximum Contaminant Level
MTBE	Methyl Tertiary Butyl Ether
µg/L	Micrograms per Liter
mg/kg	Milligrams per Kilogram
mg/L	Milligrams per Liter
NESHAP	National Emission Standards for Hazardous Air Pollutants
NPL	National Priorities List
NFA	No Further Action
ND	None Detected
NOV	Notice of Violation
NTC	Notice to Comply
O&M	Operations and Maintenance
OSHA	Occupational Safety and Health Administration
ppb	Parts per Billion
ppm	Parts per Million
PCE	Perchloroethylene, Tetrachloroethylene, Tetrachloroethene, PERC
PTO	Permit to Operate
pCi/L	PicoCuries per Liter
PCB	Polychlorinated Biphenyl
REC	Recognized Environmental Condition
RCRA	Resource Conservation and Recovery Act
RP	Responsible Party
SVOC	Semi-Volatile Organic Compound
SQG	Small Quantity Generator
SLIC	Spills, Leaks, Investigation, and Cleanup
SEMS	Superfund Enterprise Management System
TPH	Total Petroleum Hydrocarbons
TPHd	Total Petroleum Hydrocarbons (diesel range)
TPHg	Total Petroleum Hydrocarbons (gasoline range)
TPHo	Total Petroleum Hydrocarbons (oil range)
TRPH	Total Recoverable Petroleum Hydrocarbons
TCE	Trichloroethylene, Trichloroethene
UST	Underground Storage Tank
USDA	United States Department of Agriculture
USGS	United States Geological Survey
VOC	Volatile Organic Compound

EXECUTIVE SUMMARY

AEI Consultants (AEI) was retained by JPN Corporation, Inc. to conduct a Phase I ESA in conformance with the proposal and the scope and limitations of ASTM Standard Practice E1527-13 and the EPA Standards and Practices for All Appropriate Inquiries (40 CFR Part 312) for the property located at Northwestern corner of I-215 and Holland Road, Menifee, Riverside County, California. Any exceptions to, or deletions from, this practice are described in Sections 1.4, 1.5, and 1.6 of this report.

PROPERTY DESCRIPTION

PROPERTY INFORMATION	
Property Name	I-215 and Holland Road
Street Address(es)	Northwestern corner of I-215 and Holland Road
City	Menifee
State	California
Location	Northwestern corner of I-215 and Holland Road
Vicinity Characteristics	Commercial and vacant
Approximate Site Acreage/Source	37 acres/Client provided
Property Type	Development Site
Subject Property Use(s)	Vacant land
Assessor Parcel Number(s)	360-130-003
SITE AND BUILDING INFORMATION	
Number of Buildings	Zero
Year(s) of Construction	None identified
Number of Floors/Stories	None identified
Basement or Subgrade Area(s)	None identified
Number of Units	None identified
Building Area (SF)/Source	None identified
Building Description(s)	None identified
Building Occupant(s)	None identified
Additional Improvements	None identified
Current On-site Operations	None identified
Current Use of Hazardous Substances	None identified
UTILITY PROVIDER INFORMATION	
Natural Gas Provider	Southern California Gas Company
Electricity Provider	Southern California Edison
Heating System Fuel Source	None identified
Cooling System Power Source	None identified
Potable Water Provider or Source	Eastern Municipal Water District
Sewage Disposal Provider or Treatment System	Eastern Municipal Water District
REGULATORY INFORMATION	
Regulatory Database Listings	None identified
Institutional Controls	None identified
Engineering Controls	None identified
Environmental Liens	None identified

Based on a review of historical sources, the subject property was identified to consist of vacant/agricultural land from 1938 to present.

No historical addresses were identified to be associated with the subject property.

The immediately surrounding properties consist of the following:

Direction from Site	Tenant/Use (Address)	Regulatory Database Listing(s)
North	Vacant/agricultural land	None identified
West	Haun Road and La Paloma Wash, followed by: <ul style="list-style-type: none">• Vacant/agricultural land• Santa Rosa Academy (27587 La Piedra Road)	SLIC, NPDES
South	Holland Road, followed by: <ul style="list-style-type: none">• Vacant/agricultural land• Stax Up Storage (27887 Holland Road)• Commercial and parking/storage Lot (27989 Holland Road)	None identified
East	Interstate 215 followed by Antelope Road	None identified

If the surrounding properties are listed in the regulatory database, please refer to Section 5.1 for discussion.

Based on a Preliminary Site Assessment for a nearby site at 27587 La Piedra Road (located approximately 350 feet west northwest of the subject property) obtained from the California State Water Resources Control Board GeoTracker website, groundwater is presumed to be present at an estimated depth of 100.8 feet bgs. Based upon topographic map interpretation, the direction of groundwater flow beneath the subject property is inferred to be to the east-southeast.

FINDINGS

Recognized Environmental Condition (REC) is defined by the ASTM Standard Practice E1527-13 as the presence or likely presence of any hazardous substances or petroleum products in, on, or at a property: (1) due to release to the environment; (2) under conditions indicative of a release to the environment; or (3) under conditions that pose a material threat of a future release to the environment.

- The subject property was historically used for agricultural purposes. According to the subject property owner, the property was used for hay baling purposes from approximately 2003 to 2013. Hay baling activities reportedly consisted of planting wild oats and harvesting hay; no irrigation or agricultural chemicals were used on the property. The subject property owner stated that the property had been used for similar purposes from the 1950s to 2002 and it was grazing land prior to the 1950s. Although the recent agricultural activity does not appear to be a concern, AEI was unable to verify the historical use of the subject property before 2003 and rule out the use of agricultural chemicals onsite. Based on the similar historical uses of the adjacent school site and sampling data provided, there is a potential that agricultural chemicals, such

as pesticides, herbicides and fertilizers, were used on the subject property. The subject property is planned for commercial development, and the entire area of the subject property will likely either be paved over or covered by improvements that make direct contact with any potential remaining concentrations in the soil unlikely. AEI contacted the local planning department to determine whether sampling relating to the former agricultural use of the subject property is required in preparation for development. The planning department representative indicated that on-site sampling is required prior to the development of an agricultural property the size of the subject property. Consequently, AEI recommends the performance of on-site sampling to determine if the subject property has been significantly impacted in connection with the historical agricultural use for the protection of the construction workers and future occupants of the subject property.

Controlled Recognized Environmental Condition (CREC) is defined by the ASTM Standard Practice E1527-13 as a past release of hazardous substances or petroleum products that has been addressed to the satisfaction of the applicable regulatory authority, with hazardous substances or petroleum products allowed to remain in place subject to the implementation of required controls.

- AEI did not identify evidence of CRECs during the course of this assessment.

Historical Recognized Environmental Condition (HREC) is defined by the ASTM Standard Practice E1527-13 as a past release of any hazardous substances or petroleum products that has occurred in connection with the property and has been addressed to the satisfaction of the applicable regulatory authority or meeting unrestricted use criteria established by a regulatory authority, without subjecting the property to any required controls.

- AEI did not identify evidence of HRECs during the course of this assessment.

Other Environmental Considerations warrant discussion, but do not qualify as RECs as defined by the ASTM Standard Practice E1527-13. These include, but are not limited to, de minimis conditions and/or environmental considerations such as the presence of ACMs, LBP, radon, mold, and lead in drinking water, which can affect the liabilities and financial obligations of the client, the health and safety of site occupants, and the value and marketability of the subject property.

- AEI did not identify evidence of Other Environmental Considerations during the course of this assessment.

CONCLUSIONS, OPINIONS, AND RECOMMENDATIONS

We have performed a Phase I ESA in conformance with the scope and limitations of ASTM Standard Practice E1527-13 and the EPA Standards and Practices for All Appropriate Inquiries (40 CFR Part 312) of Northwestern corner of I-215 and Holland Road, Menifee, Riverside County, California, the *subject property*. Any exceptions to, or deletions from, this practice are described in Sections 1.4, 1.5, and 1.6 of this report.

AEI did not identify evidence of RECs or CRECs in connection with the property except for those previously identified in the Findings section. AEI recommends the following:

- Soil Sampling

1.0 INTRODUCTION

This report documents the methods and findings of the Phase I ESA performed in conformance with the proposal and scope and limitations of ASTM Standard Practice E1527-13 and the EPA Standards and Practices for All Appropriate Inquiries (40 CFR Part 312) for the property located at Northwestern corner of I-215 and Holland Road, Menifee, Riverside County, California (Appendix A: Figures and Appendix B: Property Photographs).

1.1 SCOPE OF WORK

The purpose of the Phase I ESA is to assist the client in identifying potential RECs, in accordance with ASTM E1527-13, associated with the presence of any hazardous substances or petroleum products, their use, storage, and disposal at and in the vicinity of the subject property. Property assessment activities focused on: 1) a review of federal, state, tribal, and local databases that identify and describe underground fuel tank sites, leaking underground fuel tank sites, hazardous waste generation sites, and hazardous waste storage and disposal facility sites within the ASTM approximate minimum search distance; 2) a property and surrounding site reconnaissance, and interviews with the past and present owners and current occupants and operators to identify potential environmental contamination; and 3) a review of historical sources to help ascertain previous land use at the site and in the surrounding area.

1.2 ADDITIONAL SERVICES

Other Environmental Considerations such as ACMs, LBP, lead in drinking water, radon, mold, and wetlands can result in business environmental risks for property owners which may disrupt current or planned operations or cash flow and are generally beyond the scope of a Phase I assessment as defined by ASTM E1527-13. Based upon the agreed-on scope of services this ESA did not include subsurface or other invasive assessments, business environmental risks, or other services not specifically identified and discussed herein.

1.3 SIGNIFICANT ASSUMPTIONS

The following assumptions are made by AEI in this report. AEI relied on information derived from secondary sources including governmental agencies, the client, designated representatives of the client, property contact, property owner, property owner representatives, computer databases, and personal interviews. AEI has reviewed and evaluated the thoroughness and reliability of the information derived from secondary sources including government agencies, the client, designated representatives of the client, property contact, property owner, property owner representatives, computer databases, or personal interviews. It appears that all information obtained from outside sources and reviewed for this assessment is thorough and reliable. However, AEI cannot guarantee the thoroughness or reliability of this information.

Groundwater flow, unless otherwise specified by on-site well data or well data from the subject property or nearby sites, is inferred from contour information depicted on the USGS topographic maps. AEI assumes the property has been correctly and accurately identified by the client, designated representative of the client, property contact, property owner, and property owner's representatives.

1.4 LIMITATIONS

Property conditions, as well as local, state, tribal, and federal regulations can change significantly over time. Therefore, the recommendations and conclusions presented as a result of this assessment apply strictly to the environmental regulations and property conditions existing at the time the assessment was performed. Available information has been analyzed using currently accepted assessment techniques and it is believed that the inferences made are reasonably representative of the property. AEI makes no warranty, expressed or implied, except that the services have been performed in accordance with generally accepted environmental property assessment practices applicable at the time and location of the assessment.

Considerations identified by ASTM as beyond the scope of a Phase I ESA that may affect business environmental risk at a given property include the following: ACMs, radon, LBP, lead in drinking water, wetlands, regulatory compliance, cultural and historical resources, industrial hygiene, health and safety, ecological resources, endangered species, indoor air quality, mold, and high voltage lines. These environmental issues or conditions may warrant assessment based on the type of the property transaction; however, they are considered non-scope issues under ASTM Standard Practice E1527-13.

If requested by the client, these non-scope issues are discussed herein. Otherwise, the purpose of this assessment is solely to satisfy one of the requirements for qualification of the innocent landowner defense, contiguous property owner or bona fide prospective purchaser under CERCLA. ASTM Standard Practice E1527-13 and the United States EPA Standards and Practices for All Appropriate Inquiries (40 CFR Part 312) constitute the "all appropriate inquiry into the previous ownership and uses of the property consistent with good commercial or customary practice" as defined in:

1. 42 U.S.C. § 9601(35)(B), referenced in the ASTM Standard Practice E1527-13.
2. Sections 101(35)(B) (ii) and (iii) of CERCLA and referenced in the EPA Standards and Practices for All Appropriate Inquiries (40 CFR Part 312).
3. 42 U.S.C. § 9601(40) and 42 U.S.C. § 9607(q).

The Phase I ESA is not, and should not be construed as, a warranty or guarantee about the presence or absence of environmental contaminants that may affect the property. Neither is the assessment intended to assure clear title to the property in question. The sole purpose of assessment into property title records is to ascertain a historical basis of prior land use. All findings, conclusions, and recommendations stated in this report are based upon facts, circumstances, and industry-accepted procedures for such services as they existed at the time this report was prepared (i.e., federal, state, and local laws, rules, regulations, market conditions, economic conditions, political climate, and other applicable matters). All findings, conclusions, and recommendations stated in this report are based on the data and information provided, and observations and conditions that existed on the date and time of the property reconnaissance.

Responses received from local, state, or federal agencies or other secondary sources of information after the issuance of this report may change certain facts, findings, conclusions, or circumstances to the report. A change in any fact, circumstance, or industry-accepted procedure upon which this report was based may adversely affect the findings, conclusions, and recommendations expressed in this report.

AEI's limited radon screening, if included, is intended to provide a preliminary screening to evaluate the potential presence of elevated radon concentrations at the site. The proposed scope is not intended to define the full extent of the presence of radon at the subject property. As such, the results should be used for lending purposes only. The recommendations and conclusions presented as a result of the limited preliminary radon screening apply strictly to the property conditions existing at the time the sampling was performed. The sample analytical results are only valid for the time, place, and condition of the site at the time of collection and AEI does not warrant that the results will be repeatable or are representative of past or future conditions.

1.5 LIMITING CONDITIONS/DEVIATIONS

The performance of this Phase I ESA was limited by the following:

- Due to the size of the subject property, AEI performed a site inspection of the property utilizing a field technique of traversing the site in an attempt to provide an overlapping field of view. Due to the size of the property and the vegetation present on site, isolated areas of the site may have not been accessible for direct observation during AEI's inspection. Based on vacant nature of the site, this limitation is not expected to significantly alter the Findings of this assessment.
- The User did not complete the ASTM User Questionnaire or provide the User information to AEI. AEI assumes that qualification for the LLPs is being established by the User in documentation outside of this assessment.

1.6 DATA GAPS AND DATA FAILURE

According to ASTM E1527-13, data gaps occur when the Environmental Professional is unable to obtain information required by the Standard, despite good faith efforts to gather such information. Pursuant to ASTM E1527-13, only significant data gaps, defined as those that affect the ability of the Environmental Professional to identify RECs, need to be documented.

Data failure is one type of data gap. According to ASTM E1527-13, data failure occurs when all of the standard historical sources that are reasonably ascertainable and likely to be useful have been reviewed and yet the objectives have not been met. Pursuant to ASTM E1527-13, historical sources are required to document property use back to the property's first developed use or back to 1940, whichever is earlier, or periods of five years or greater.

1.6.1 DATA FAILURE

The following data failure was identified during the course of this assessment:

Data Failure	The earliest historical resource obtained during this assessment was aerial photograph from 1938. The lack of historical sources for the subject property dating back to first developed use represents historical data source failure. In the 1938 aerial photograph, the subject property was developed agriculturally. Thus it is assumed that prior to 1938 the subject property would have been used for agricultural purposes, if not undeveloped. Therefore, this data failure is not expected to significantly alter the Findings of this assessment.
Information/Sources Consulted	City directories, aerial photographs, agency records, interviews

1.6.2 DATA GAPS

AEI did not identify significant data gaps which affected our ability to identify RECs.

1.7 RELIANCE

All reports, both verbal and written, are for the benefit of JPN Corporation, Inc.. This report has no other purpose and may not be relied upon by any other person or entity without the written consent of AEI. 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 AEI granting such rights, no third parties shall have rights of recourse or recovery whatsoever under any course of action against AEI, its officers, employees, vendors, successors, or assigns. Reliance is provided in accordance with AEI's proposal and Standard Terms and Conditions executed by JPN Corporation, Inc. on September 22, 2016. The limitation of liability defined in the Terms and Conditions is the aggregate limit of AEI's liability to the client and all relying parties.

2.0 SITE AND VICINITY DESCRIPTION

2.1 SITE LOCATION AND DESCRIPTION

PROPERTY INFORMATION	
Property Name	I-215 and Holland Road
Street Address(es)	Northwestern corner of I-215 and Holland Road
City	Menifee
State	California
Location	Northwestern corner of I-215 and Holland Road
Vicinity Characteristics	Commercial and vacant
Approximate Site Acreage/Source	37 acres/Client provided
Property Type	Development Site
Subject Property Use(s)	Vacant land
Assessor Parcel Number(s)	360-130-003
SITE AND BUILDING INFORMATION	
Number of Buildings	Zero
Year(s) of Construction	None identified
Number of Floors/Stories	None identified
Basement or Subgrade Area(s)	None identified
Number of Units	None identified
Building Area (SF)/Source	None identified
Building Description(s)	None identified
Building Occupant(s)	None identified
Additional Improvements	None identified
Current On-site Operations	None identified
Current Use of Hazardous Substances	None identified
UTILITY PROVIDER INFORMATION	
Natural Gas Provider	Southern California Gas Company
Electricity Provider	Southern California Edison
Heating System Fuel Source	None identified
Cooling System Power Source	None identified
Potable Water Provider or Source	Eastern Municipal Water District
Sewage Disposal Provider or Treatment System	Eastern Municipal Water District
REGULATORY INFORMATION	
Regulatory Database Listings	None identified
Institutional Controls	None identified
Engineering Controls	None identified
Environmental Liens	None identified

Utility provider information listed in the table above is provided by Jim Nelson, property owner, unless otherwise noted above.

Refer to Appendix A: Figures and Appendix B: Property Photographs for site location and description.

2.2 SITE AND VICINITY CHARACTERISTICS

The immediately surrounding properties consist of the following:

Direction from Site	Tenant/Use (Address)	Regulatory Database Listing(s)
North	Vacant/agricultural land	None identified
West	Haun Road and La Paloma Wash, followed by: <ul style="list-style-type: none">• Vacant/agricultural land• Santa Rosa Academy (27587 La Piedra Road)	SLIC, NPDES
South	Holland Road, followed by: <ul style="list-style-type: none">• Vacant/agricultural land• Stax Up Storage (27887 Holland Road)• Commercial and parking/storage Lot (27989 Holland Road)	None identified
East	Interstate 215 followed by Antelope Road	None identified

If the surrounding properties are listed in the regulatory database, please refer to Section 5.1 for discussion.

2.3 PHYSICAL SETTING

Geology: According to information obtained from the USGS, the area surrounding the subject property is underlain by soils of the Yokohl loam and Wyman loam associations. According to information obtained from the GeoTracker website for a nearby site located at 27587 La Piedra Road (approximately 350 feet east northeast of the subject property, surface and shallow soil in the vicinity of the subject property generally consists of brown silty, fine to medium grained sands with varying small amounts of clay.

USGS Topographic Map:	Romoland, California Quadrangle
Nearest surface water to subject property:	Menifee Lakes/0.50 feet east northeast
Gradient Direction/Source:	East-southeast/Preliminary Site Assessment obtained from the GeoTracker website for 27587 La Piedra Road (350 feet east northeast)
Estimated Depth to Groundwater/Source:	100.8 feet bgs/Preliminary Site Assessment obtained from the GeoTracker website for 27587 La Piedra Road (350 feet east northeast)

Note: Groundwater flow direction can be influenced locally and regionally by the presence of local wetland features, surface topography, recharge and discharge areas, horizontal and vertical inconsistencies in the types and location of subsurface soils, and proximity to water pumping wells. Depth and gradient of the water table can change seasonally in response to variation in precipitation and recharge, and over time, in response to urban development such as storm water controls, impervious surfaces, pumping wells, cleanup activities, dewatering, seawater intrusion barrier projects near the coast, and other factors.

3.0 HISTORICAL REVIEW OF SITE AND VICINITY

3.1 HISTORICAL SUMMARY

Reasonably ascertainable standard historical sources as outlined in ASTM Standard E1527-13 were used to determine previous uses and occupancies of the subject property that are likely to have led to RECs in connection with the subject property. A chronological summary of historical data found, including but not limited to aerial photographs, historical city directories, Sanborn fire insurance maps, and agency records, is as follows:

Date Range	Subject Property Description/Use	Source(s)
1938-Present	Vacant/agricultural land	Aerial photographs

Based on a review of historical sources, the subject property was identified to consist of vacant/agricultural land from 1938 to present.

No historical addresses were identified to be associated with the subject property.

Refer to Section 3.2 for discussion of historical agricultural use.

3.2 AERIAL PHOTOGRAPHS

AEI reviewed aerial photographs of the subject property and surrounding area. A search was made of the EDR collection of aerial photographs. Aerial photographs were reviewed for the following years:

Year(s)	Subject Property Description	Adjacent Site Descriptions
1938 1949 1953 1961 1967	Vacant/agricultural land	NORTH: Vacant/agricultural land EAST: Vacant/agricultural land and a road SOUTH: A road, followed by vacant/agricultural land WEST: Vacant/agricultural land
1978	No significant changes	NORTH: No significant changes EAST: Vacant land and graded land for future freeway SOUTH: A road, followed by vacant/agricultural land and several residential structures WEST: A road, followed by vacant/agricultural land
1985	No significant changes	NORTH: No significant changes EAST: Vacant land and a freeway SOUTH: No significant changes WEST: No significant changes
1989 1996	No significant changes	NORTH: No significant changes EAST: No significant changes SOUTH: A road, followed by vacant/agricultural land and several commercial structures with parking/storage lot WEST: No significant changes

Year(s)	Subject Property Description	Adjacent Site Descriptions
2002 2005 2006	No significant changes	NORTH: No significant changes EAST: No significant changes SOUTH: A road, followed by vacant/ agricultural land, a self storage facility and several commercial structures with parking/ storage lot WEST: No significant changes
2009 2010 2012	No significant changes	NORTH: No significant changes EAST: No significant changes SOUTH: No significant changes WEST: A road, followed by vacant/agricultural land and a storm drain channel

The subject property was historically used for agricultural purposes. According to the subject property owner, the property was used for hay baling purposes from approximately 2003 to 2013. Hay baling activities reportedly consisted of planting wild oats and harvesting hay; no irrigation or agricultural chemicals were used on the property. The subject property owner stated that the property had been used for similar purposes from the 1950s to 2002 and it was grazing land prior to the 1950s. Although the recent agricultural activity does not appear to be a concern, AEI was unable to verify the historical use of the subject property before 2003 and rule out the use of agricultural chemicals onsite. Based on the similar historical uses of the adjacent school site and sampling data provided, there is a potential that agricultural chemicals, such as pesticides, herbicides and fertilizers, were used on the subject property. The subject property is planned for commercial development, and the entire area of the subject property will likely either be paved over or covered by improvements that make direct contact with any potential remaining concentrations in the soil unlikely. AEI contacted the local planning department to determine whether sampling relating to the former agricultural use of the subject property is required in preparation for development. The planning department representative indicated that on-site sampling is required prior to the development of an agricultural property the size of the subject property. Consequently, AEI recommends the performance of on-site sampling to determine if the subject property has been significantly impacted in connection with the historical agricultural use for the protection of the construction workers and future occupants of the subject property.

If available, copies of historical aerial photographs are provided in the report appendices.

3.3 SANBORN FIRE INSURANCE MAPS

Sanborn Fire Insurance maps were developed in the late 1800s and early 1900s for use as an assessment tool for fire insurance rates in urbanized areas. A search was made of the EDR collection of Sanborn Fire Insurance maps.

Sanborn map coverage was not available for the subject property.

3.4 CITY DIRECTORIES

A search of historical city directories was conducted for the subject property utilizing EDR. No information was on file for the subject property.

3.5 HISTORICAL TOPOGRAPHIC MAPS

In accordance with our approved scope of services, historical topographic maps were not reviewed as a part of this assessment.

3.6 CHAIN OF TITLE

In accordance with our approved scope of services, a chain of title search was not performed as part of this assessment.

4.0 REGULATORY AGENCY RECORDS REVIEW

Local and state agencies, such as environmental health departments, fire prevention bureaus, and building and planning departments are contacted to identify any current or previous reports of hazardous substance use, storage, and/or unauthorized releases that may have impacted the subject property. In addition, information pertaining to AULs, defined as legal or physical restrictions, or limitations on the use of, or access to, a site or facility, is requested.

4.1 LOCAL ENVIRONMENTAL HEALTH DEPARTMENT AND/OR STATE ENVIRONMENTAL AGENCY

On September 23, 2016, AEI contacted the Riverside Department of Environmental Health via telephone for information on the subject property. Files at this agency may contain information regarding hazardous substance storage and use, underground storage tanks, unauthorized releases of petroleum hydrocarbons or other contaminants that may affect the soil or groundwater in the area, wells and/or septic systems.

The Riverside Department of Environmental Health does not have files for parcels without a physical address.

4.2 FIRE DEPARTMENT

The Riverside Department of Environmental Health is the custodian of records for the Riverside County Fire Department; refer to Section 4.1.

4.3 BUILDING DEPARTMENT

On September 23, 2016, AEI contacted the Menifee Building & Safety Department via telephone for information on the subject property in order to identify historical tenants, features of concern and property use. The Menifee Building & Safety Department does not have files for parcels without a physical address.

4.4 PLANNING DEPARTMENT

On September 23, 2016, AEI contacted the Menifee Planning Department via telephone for information on the subject property in order to identify AULs associated with the subject property.

Evidence indicating the existence of AULs was not on file for the subject property with the Menifee Planning Department. However, the planning department representative indicated that on-site sampling is required prior to the development of an agricultural property the size of the subject property; refer to Section 3.2 for further discussion.

4.5 COUNTY ASSESSOR OFFICE

On September 23, 2016, AEI visited the Riverside County assessor's office website for information on the subject property in order to determine the earliest recorded date of development and use.

The Riverside County assessor's office did not have information indicating the presence of buildings on the subject property.

4.6 OIL AND GAS WELLS/PIPELINES

On September 23, 2016, AEI reviewed the California Department of Conservation, Division of Oil, Gas, and Geothermal Resources (DOGGR) maps and the National Pipeline Mapping System (NPMS) Public Map Viewer concerning the subject property and nearby properties. The maps contain information regarding oil and gas development.

According to the DOGGR map, oil or gas wells are not located within 500 feet of the subject property. AEI did not identify evidence of environmental concerns during the map review.

According to the NPMS Public Map Viewer, pipelines are not located within 500 feet of the subject property. AEI did not identify evidence of environmental concerns during the map review.

4.7 OTHER AGENCIES SEARCHED

On September 23, 2016, AEI visited the website maintained by the South Coast Air Quality Management District (SCAQMD) for information regarding any records of Permits to Operate (PTO), Notices of Violation (NOV), or Notices to Comply (NTC) issued to occupants of the subject property and associated with air emission equipment primarily related to stationary sources of air pollution, such as dry cleaning machines, boilers, and/or USTs. No information regarding the subject property was found on the SCAQMD website.

On September 23, 2016, AEI visited the Hazardous Waste Tracking System (HWTS) online database maintained by the Department of Toxic Substances Control (DTSC) for information regarding documented hazardous wastes disposed of via manifest from the subject property. No information regarding the subject property was found on the DTSC HWTS website.

On September 23, 2016, AEI accessed the California Department of Toxic Substances Control (DTSC) EnviroStor database, which contains information of investigation, cleanup, permitting, and/or corrective actions that are planned, being conducted or have been completed under DTSC oversight. No information regarding the subject property was found on the Envirostor website.

On September 23, 2016, AEI visited the Regional Water Quality Control Board (RWQCB) GeoTracker website for information on the subject property and/or nearby sites of concern to identify any evidence of unauthorized releases of hazardous materials to the groundwater. Cases typically handled by the RWQCB include releases from underground storage tanks (USTs). No information regarding the subject property was found on the GeoTracker website. The eastern adjacent closed SLIC site is discussed in Section 5.1.

4.8 STATE ENVIRONMENTAL SUPERLIENS AND PROPERTY TRANSFER LAWS

In accordance with our approved scope of services, AEI did not assess whether the subject property is subject to any state environmental superliens and/or property transfer laws.

5.0 REGULATORY DATABASE RECORDS REVIEW

AEI contracted Environmental Data Resources (EDR) to conduct a search of publicly available information from federal, state, tribal, and local databases containing known and suspected sites of environmental contamination and sites of potential environmental significance. Data gathered during the current regulatory database search is compiled by EDR into one regulatory database report. Location information for listed sites is designated using geocoded information provided by federal, state, or local agencies and commonly used mapping databases with the exception of "Orphan" sites. Due to poor or inadequate address information, Orphan sites are identified but not geocoded/mapped by EDR, rather, information is provided based upon vicinity zip codes, city name, and state. The number of listed sites identified within the approximate minimum search distance from the federal and state environmental records database listings specified in ASTM Standard E1527-13 is summarized in Section 5.1, along with the total number of Orphan sites. A copy of the regulatory database report is included in Appendix C of this report.

The subject property was not identified in the databases reviewed.

In determining if a listed site is a potential environmental concern to the subject property, AEI generally applies the following criteria to classify the site as lower potential environmental concern: 1) the site only holds an operating permit (which does not imply a release), 2) the site's distance from, and/or topographic position relative to, the subject property, and/or 3) the site has recently been granted "No Further Action" by the appropriate regulatory agency.

5.1 RECORDS SUMMARY

Database	Search Distance (Miles)	Subject Property Listed	Number of Listings within Search Distance	Recognized Environmental Condition or Other Environmental Consideration (Yes or No)
NPL	1	No	0	
DELISTED NPL	0.5	No	0	
SEMS (former CERCLIS)	0.5	No	0	
SEMS-ARCHIVE (former CERCLIS NFRAP)	0.5	No	0	
RCRA CORRACTS	1	No	0	
RCRA-TSDF	0.5	No	0	
RCRA LQG, SQG, CESQGs, VGN, NLR	SP/ADJ	No	0	
US ENG CONTROLS	SP	No	0	
US INST CONTROLS	SP	No	0	
ERNS	SP	No	0	
STATE/TRIBAL HWS	1	No	1	No, one site is further discussed below
STATE/TRIBAL SWLF	0.5	No	0	
STATE/TRIBAL REGISTERED STORAGE TANKS	SP/ADJ	No	0	
STATE/TRIBAL LUST	0.5	No	0	

Database	Search Distance (Miles)	Subject Property Listed	Number of Listings within Search Distance	Recognized Environmental Condition or Other Environmental Consideration (Yes or No)
STATE/TRIBAL EC and IC	SP	No	0	
STATE/TRIBAL VCP	0.5	No	0	
STATE/TRIBAL BROWNFIELD	0.5	No	0	
ORPHAN	N/A	No	5	No; none of the identified orphan sites are located in the immediate vicinity (500-feet) of the subject property, and/or based upon the distance and relative gradient, the sites are not expected to represent a significant environmental concern.
ADDITIONAL ENVIRONMENTAL RECORD SOURCES	SP/ADJ	No	1	No, one site is further discussed below

Facility Name: Santa Rosa Academy Charter School

Database(s): SLIC, NPDES

Address: 27587 La Piedra Road

Distance: 370 feet

Direction: West northwest (hydrologically up-gradient)

Comments: This facility was listed as a closed SLIC site. AEI reviewed Riverside County Department of Environmental Health files available on the GeoTracker website. A Preliminary Environmental Assessment was performed in 2012 to evaluate the potential agricultural chemicals of concern in soil associated with historic agricultural use of the site for a proposed school. The investigation included 35 soil borings on the site to depth ranging from approximately 0.5 to 3 feet bgs. The nearest soil boring (B16) is located approximately 350 east northeast of the subject property. The contaminant 4,4-dichlorodiphenyldichloroethylene (DDE) was detected at 0.006 mg/kg and all other organochloride pesticides were non-detect. Based on the sampling results, the impact to soil only, regulatory status, depth to groundwater and distance from the subject property, the site is not expected to represent a significant environmental concern to the subject property at this time. However, potential concerns associated with agricultural uses on the subject property are discussed in Section 3.2.

5.2 VAPOR MIGRATION

AEI reviewed reasonably ascertainable information for the subject and nearby properties, including a regulatory database, files for nearby release sites, and/or historical documentation, to determine if potential vapor-phase migration concerns may be present which could impact the subject property.

Based on a review of available resources as documented in this report, AEI did not identify significant on-site concerns and/or regulated listings from nearby sites which suggest that a vapor-phase migration concern currently exists at the subject property.

6.0 INTERVIEWS AND USER PROVIDED INFORMATION

6.1 INTERVIEWS

Pursuant to ASTM E1527-13, the following interviews were performed during this assessment in order to obtain information indicating RECs in connection with the subject property.

6.1.1 INTERVIEW WITH OWNER

The subject property owner, Jim Nelson of the Nelson Family Trust, was contacted via email on September 28, 2016. Jim Nelson has been associated with the subject property for 14 years. Jim Nelson was asked if he was aware of any of the following:

	Yes	No
Any knowledge of USTs, clarifiers or oil/water separators, sumps, or other subsurface features.		✓
Any knowledge of previous environmental investigations conducted on site.		✓
Any knowledge of current or past industrial operations and/or other operations which would involve the use of hazardous substances and/or petroleum products.		✓
Any known plans for site redevelopment or change in site use.	✓	
Any pending, threatened, or past litigation relevant to hazardous substances or petroleum products in, on, or from the property.		✓
Any pending, threatened or past administrative proceedings relevant to hazardous substances or petroleum products in, on, or from the property.		✓
Any notices from any governmental entity regarding any possible violation of environmental laws or possible liability relating to hazardous substances or petroleum products.		✓
Any incidents of flooding, leaks, or other water intrusion, and/or complaints related to indoor air quality.		✓
Comments: The site is planned for redevelopment (unknown type).		

6.1.2 INTERVIEW WITH KEY SITE MANAGER

The property owner, Jim Nelson, is also the key site manager. Refer to Section 6.1.1.

6.1.3 PAST OWNERS, OPERATORS, AND OCCUPANTS

AEI did not attempt to interview past owners, operators, and occupants of the subject property because information from these sources would likely be duplicative of information already obtained from other sources.

6.1.4 INTERVIEW WITH OTHERS

Information obtained during interviews with local government officials is incorporated into the appropriate segments of this section.

6.2 USER PROVIDED INFORMATION

User provided information is intended to help identify the possibility of RECs in connection with the subject property. According to ASTM E1527-13 and the EPA Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), certain items should be researched by the prospective landowner or grantee, and the results of such inquiries may be provided to the Environmental Professional. The responsibility for qualifying for LLPs by conducting the inquiries ultimately rests with the User, and providing the information to the Environmental Professional would be prudent if such information is available.

The User did not complete the ASTM User Questionnaire or provide the User information to AEI. AEI assumes that qualification for the LLPs is being established by the User in documentation outside of this assessment.

6.3 PREVIOUS REPORTS AND OTHER PROVIDED DOCUMENTATION

No prior reports or other relevant documentation in association with the subject property was made available to AEI during the course of this assessment.

7.0 SITE RECONNAISSANCE

Site Reconnaissance Date	October 6, 2016
AEI Site Assessor(s)	April McGuire
Property Escort(s)/Relationship(s) to Property	Unaccompanied
Units/Areas Observed	AEI was granted full access to the subject property
Area(s) not accessed and reason(s)	Due to the size of the subject property, AEI performed a site inspection of the property utilizing a field technique of traversing the site in an attempt to provide an overlapping field of view. Due to the size of the property and the vegetation present on site, isolated areas of the site may have not been accessible for direct observation during AEI's inspection. Based on vacant nature of the site, this limitation is not expected to significantly alter the Findings of this assessment.
Weather	Sunny and clear

7.1 SUBJECT PROPERTY RECONNAISSANCE FINDINGS

Yes	No	Observation
	✓	Regulated Hazardous Substances/Wastes and/or Petroleum Products in Connection with Property Use
	✓	Aboveground/Underground Hazardous Substance or Petroleum Product Storage Tanks (ASTs/USTs)
	✓	Hazardous Substance and Petroleum Product Containers Not in Connection with Property Use
	✓	Unidentified Substance Containers
	✓	Electrical or Mechanical Equipment Likely to Contain Fluids
	✓	Interior Stains or Corrosion
	✓	Strong, Pungent, or Noxious Odors
	✓	Pools of Liquid
	✓	Drains, Sumps, and Clarifiers
	✓	Pits, Ponds, and Lagoons
	✓	Stained Soil or Pavement
	✓	Stressed Vegetation
	✓	Solid Waste Disposal or Evidence of Fill Materials
	✓	Waste Water Discharges
	✓	Wells
	✓	Septic Systems
	✓	Biomedical Wastes
	✓	Other

The subject property is currently vacant.

AEI did not observe the above listed items during the subject property reconnaissance.

7.2 ADJACENT PROPERTY RECONNAISSANCE FINDINGS

Yes	No	Observation
	✓	Hazardous Substances/Wastes and/or Petroleum Products in Connection with Property Use
	✓	Aboveground/Underground Hazardous Substance or Petroleum Product Storage Tanks (ASTs/USTs)
	✓	Hazardous Substance and Petroleum Product Containers Not in Connection with Property Use
	✓	Unidentified Substance Containers
	✓	Electrical or Mechanical Equipment Likely to Contain Fluids
	✓	Strong, Pungent, or Noxious Odors
	✓	Pools of Liquid
✓		Drains, Sumps, and Clarifiers
	✓	Pits, Ponds, and Lagoons
	✓	Stained Soil or Pavement
	✓	Stressed Vegetation
	✓	Solid Waste Disposal or Evidence of Fill Materials
	✓	Waste Water Discharges
	✓	Wells
	✓	Septic Systems
	✓	Other

DRAINS, SUMPS, AND CLARIFIERS

A storm drain and storm drain channel (La Paloma Wash) were observed in the parking area of the subject property. AEI did not observe evidence of hazardous substances or petroleum products in the vicinity of the drain or channel. Based on the use of the drain and channel solely for storm water runoff, the presence of the drain and channel is not expected to represent a significant environmental concern.

8.0 OTHER ENVIRONMENTAL CONSIDERATIONS

8.1 ASBESTOS-CONTAINING BUILDING MATERIALS

The subject property is currently vacant land or lacks structures. Consequently, no building components containing suspect asbestos containing materials were identified during the site inspection.

8.2 LEAD-BASED PAINT

The subject property is currently vacant land or lacks structures. Consequently, AEI did not observe building components likely to contain suspect LBP during the site reconnaissance.

8.3 RADON

Radon is a naturally-occurring, odorless, and invisible gas. Natural radon levels vary and are closely related to geologic formations. Radon may enter buildings through basement sumps or other openings.

The United States 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, with Zone 1 being those areas with the average predicted indoor radon concentration in residential dwellings exceeding the EPA Action Limit of 4.0 pCi/L. It is important to note that the EPA has found homes with elevated levels of radon in all three zones, and the 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 requested as part of this assessment. According to the US EPA, the radon zone level for the area is Zone 2, which has a predicted average indoor screening level between 2 pCi/L and 4 pCi/L, equal to or below the action level of 4 pCi/L set forth by the US EPA.

8.4 DRINKING WATER SOURCES AND LEAD IN DRINKING WATER

The Eastern Municipal Water District supplies potable water to the area subject property. The most recent water quality report (2015) states that the 90th percentile value for lead levels in samples obtained from the area's water supply was less than 5 micrograms per liter (µg/L). Zero samples out of a total of 50 samples had lead levels exceeding the regulatory action level. The samples with lead levels exceeding the action level may be attributed to internal corrosion of household water plumbing systems. Overall, lead levels are well within standards established by the United States EPA.

8.5 MOLD/INDOOR AIR QUALITY ISSUES

The subject property is currently vacant land or lacks structures. Consequently, mold was not addressed as part of this assessment.

9.0 SIGNATURE OF ENVIRONMENTAL PROFESSIONALS

I declare that, to the best of my professional knowledge and belief, I meet the definition of Environmental Professional as defined in §312.10 of 40 CFR Part 312.

I have the specific qualifications based on education, training, and experience to assess a property of the nature, history and setting of the subject property. I have developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.

Prepared By:



April McGuire
Project Manager

Reviewed By:



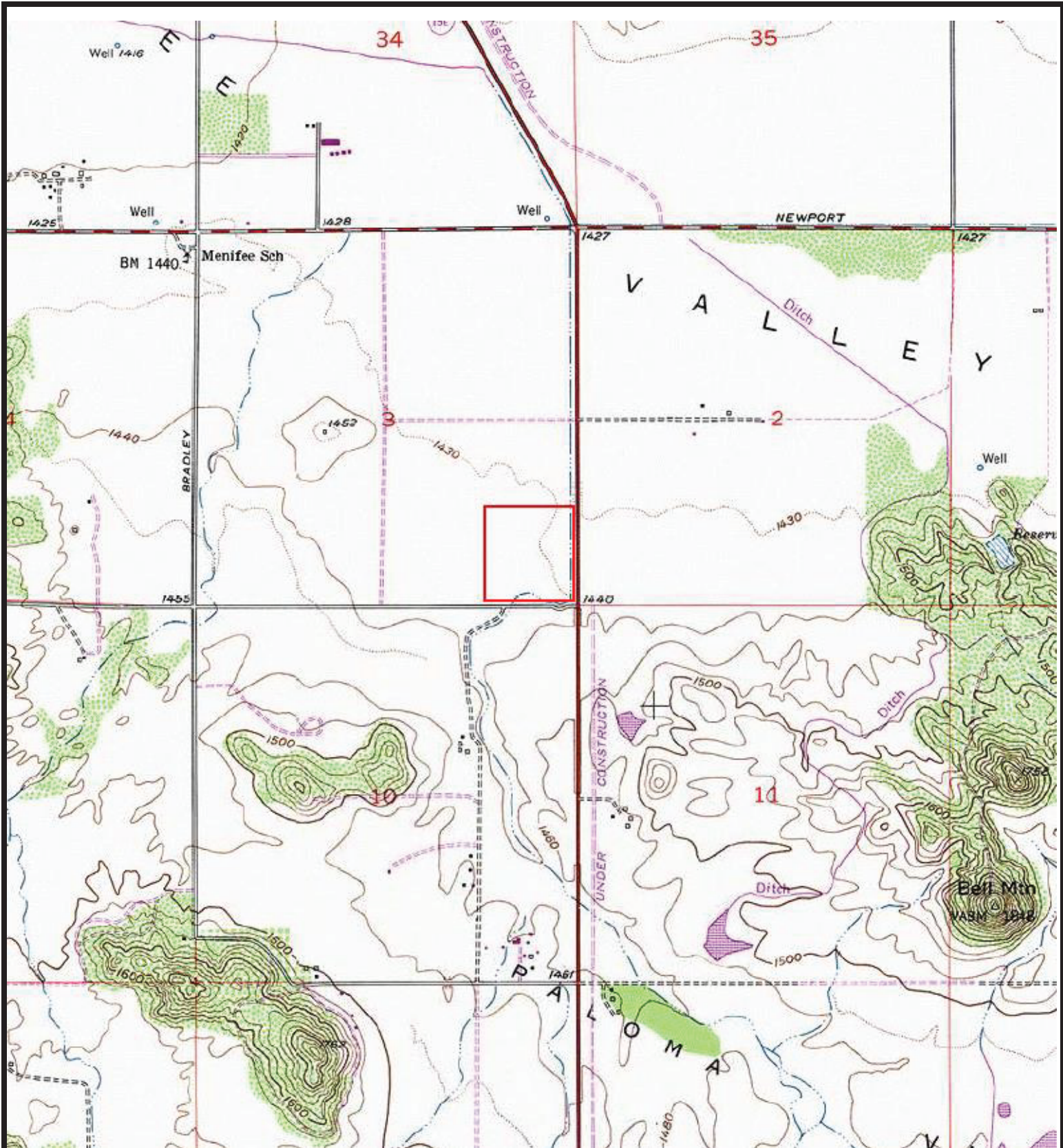
Victor Detroy
Senior Author

10.0 REFERENCES

Item	Date(s)	Source
Soils Information	September 2016	USDA Web Soil Survey http://websoilsurvey.nrcs.usda.gov/app/WebSoilSurvey.aspx
Topographic Map	1979	USGS
Depth to Groundwater Information	September 2016	Regional Water Quality Control Board GeoTracker website
Aerial Photographs	1938, 1949, 1953, 1961, 1967, 1978, 1985, 1989, 1996, 2002, 2005, 2006, 2009, 2010, 2012	EDR
Sanborn Map Report/Search	September 2016	EDR
City Directories	1975-2013 (non-inclusive)	EDR
Environmental Health Department/ State Environmental Agency	September 23, 2016	Riverside Department of Environmental Health
Fire Department	September 23, 2016	Riverside County Fire Department
Building Department	September 23, 2016	Menifee Building & Safety Department
Planning Department	September 23, 2016	Menifee Planning Department
Assessor's Information and Parcel Map	September 23, 2016	Riverside County assessor's office
Oil and Gas Wells/Pipelines	September 23, 2016	DOGGR, NPMS Public Map Viewer
Other Agencies Searched	September 23, 2016	South Coast Air Quality Management District, Department of Toxic Substances Control Hazardous Waste Tracking System and EnviroStor database, Regional Water Quality Control Board GeoTracker website
Regulatory Database Report	September 2016	EDR
Interview with Owner	September 28, 2016	Jim Nelson
Radon Zone Information	1993	United States EPA Map of Radon Zones http://www.epa.gov/radon/zonemap.html
Water Quality Report	2015	Eastern Municipal Water District

APPENDIX A

FIGURES



Legend: Approximate Property Boundary ——

Source: USGS Topographic Map *Romoland, California* (1979)



Figure 1: TOPOGRAPHIC MAP

Northwestern Corner of I-215 and Holland Road
Project Number: 363593

AEI
Consultants



Legend

Approximate Property Boundary —

Inferred Direction of Groundwater Flow →

Storm Drain |||||

Listed in the Regulatory Database (*)



Figure 2: SITE MAP

Northwestern Corner of I-215 and Holland Road
Project Number: 363593

AEI
Consultants

APPENDIX B

PROPERTY PHOTOGRAPHS



1. Northern portion of the subject property



2. Northwestern portion of the subject property



3. Western portion of the subject property



4. Southern portion of the subject property



5. Eastern portion of the subject property



6. Southern portion of the subject property



7. Northern portion of the subject property



8. View of the subject property from Haun Road



9. View of the subject property from Haun Road



10. View of the subject property from Holland Road



11. View of the subject property from Holland Road



12. Southern portion of the subject property



13. Southwestern portion of the subject property



14. Northern portion of the subject property



15. Western adjacent vacant/agricultural land and storm channel



16. Western adjacent vacant/agricultural land and storm channel



17. Western adjacent vacant/agricultural land, school and storm channel



18. Northern adjacent vacant/agricultural land



19. Northern adjacent vacant/agricultural land



20. Eastern adjacent property



21. Southern adjacent commercial property and storage yard



22. Southern adjacent commercial property



23. Southern adjacent vacant/agricultural land



24. Southern adjacent vacant/agricultural land

APPENDIX C

REGULATORY DATABASE

363593 PM

I-215 & Holland Road
Menifee, CA 92584

Inquiry Number: 4737393.2s
September 26, 2016

The EDR Radius Map™ Report



6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

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Orphan Summary	13
Government Records Searched/Data Currency Tracking	GR-1

GEOCHECK ADDENDUM

GeoCheck - Not Requested

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-13) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

I-215 & HOLLAND ROAD
MENIFEE, CA 92584

COORDINATES

Latitude (North):	33.6722510 - 33° 40' 20.10"
Longitude (West):	117.1734920 - 117° 10' 24.57"
Universal Transverse Mercator:	Zone 11
UTM X (Meters):	483916.8
UTM Y (Meters):	3725637.0
Elevation:	1435 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	5641314 ROMOLAND, CA
Version Date:	2012

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from:	20140530, 20140603
Source:	USDA

MAPPED SITES SUMMARY

Target Property Address:
I-215 & HOLLAND ROAD
MENIFEE, CA 92584

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
1	SANTA ROSA ACADEMY C	27587 LA PIEDRA ROAD	SLIC, NPDES	Lower	1678, 0.318, NW

EXECUTIVE SUMMARY

TARGET PROPERTY SEARCH RESULTS

The target property was not listed in any of the databases searched by EDR.

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL..... National Priority List
Proposed NPL..... Proposed National Priority List Sites
NPL LIENS..... Federal Superfund Liens

Federal Delisted NPL site list

Delisted NPL..... National Priority List Deletions

Federal CERCLIS list

FEDERAL FACILITY..... Federal Facility Site Information listing
SEMS..... Superfund Enterprise Management System

Federal CERCLIS NFRAP site list

SEMS-ARCHIVE..... Superfund Enterprise Management System Archive

Federal RCRA CORRACTS facilities list

CORRACTS..... Corrective Action Report

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF..... RCRA - Treatment, Storage and Disposal

Federal RCRA generators list

RCRA-LQG..... RCRA - Large Quantity Generators
RCRA-SQG..... RCRA - Small Quantity Generators
RCRA-CESQG..... RCRA - Conditionally Exempt Small Quantity Generator

Federal institutional controls / engineering controls registries

LUCIS..... Land Use Control Information System
US ENG CONTROLS..... Engineering Controls Sites List

EXECUTIVE SUMMARY

US INST CONTROL..... Sites with Institutional Controls

Federal ERNS list

ERNS..... Emergency Response Notification System

State- and tribal - equivalent NPL

RESPONSE..... State Response Sites

State- and tribal - equivalent CERCLIS

ENVIROSTOR..... EnviroStor Database

State and tribal landfill and/or solid waste disposal site lists

SWF/LF..... Solid Waste Information System

State and tribal leaking storage tank lists

LUST..... Geotracker's Leaking Underground Fuel Tank Report

INDIAN LUST..... Leaking Underground Storage Tanks on Indian Land

State and tribal registered storage tank lists

FEMA UST..... Underground Storage Tank Listing

UST..... Active UST Facilities

AST..... Aboveground Petroleum Storage Tank Facilities

INDIAN UST..... Underground Storage Tanks on Indian Land

State and tribal voluntary cleanup sites

VCP..... Voluntary Cleanup Program Properties

INDIAN VCP..... Voluntary Cleanup Priority Listing

State and tribal Brownfields sites

BROWNFIELDS..... Considered Brownfields Sites Listing

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS..... A Listing of Brownfields Sites

Local Lists of Landfill / Solid Waste Disposal Sites

WMUDS/SWAT..... Waste Management Unit Database

SWRCY..... Recycler Database

HAULERS..... Registered Waste Tire Haulers Listing

INDIAN ODI..... Report on the Status of Open Dumps on Indian Lands

DEBRIS REGION 9..... Torres Martinez Reservation Illegal Dump Site Locations

ODI..... Open Dump Inventory

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL..... Delisted National Clandestine Laboratory Register

EXECUTIVE SUMMARY

HIST Cal-Sites.....	Historical Calsites Database
SCH.....	School Property Evaluation Program
CDL.....	Clandestine Drug Labs
Toxic Pits.....	Toxic Pits Cleanup Act Sites
US CDL.....	National Clandestine Laboratory Register

Local Lists of Registered Storage Tanks

SWEEPS UST.....	SWEEPS UST Listing
HIST UST.....	Hazardous Substance Storage Container Database
CA FID UST.....	Facility Inventory Database

Local Land Records

LIENS.....	Environmental Liens Listing
LIENS 2.....	CERCLA Lien Information
DEED.....	Deed Restriction Listing

Records of Emergency Release Reports

HMIRS.....	Hazardous Materials Information Reporting System
CHMIRS.....	California Hazardous Material Incident Report System
LDS.....	Land Disposal Sites Listing
MCS.....	Military Cleanup Sites Listing
SPILLS 90.....	SPILLS 90 data from FirstSearch

Other Ascertainable Records

RCRA NonGen / NLR.....	RCRA - Non Generators / No Longer Regulated
FUDS.....	Formerly Used Defense Sites
DOD.....	Department of Defense Sites
SCRD DRYCLEANERS.....	State Coalition for Remediation of Drycleaners Listing
US FIN ASSUR.....	Financial Assurance Information
EPA WATCH LIST.....	EPA WATCH LIST
2020 COR ACTION.....	2020 Corrective Action Program List
TSCA.....	Toxic Substances Control Act
TRIS.....	Toxic Chemical Release Inventory System
SSTS.....	Section 7 Tracking Systems
ROD.....	Records Of Decision
RMP.....	Risk Management Plans
RAATS.....	RCRA Administrative Action Tracking System
PRP.....	Potentially Responsible Parties
PADS.....	PCB Activity Database System
ICIS.....	Integrated Compliance Information System
FTTS.....	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
MLTS.....	Material Licensing Tracking System
COAL ASH DOE.....	Steam-Electric Plant Operation Data
COAL ASH EPA.....	Coal Combustion Residues Surface Impoundments List
PCB TRANSFORMER.....	PCB Transformer Registration Database
RADINFO.....	Radiation Information Database
HIST FTTS.....	FIFRA/TSCA Tracking System Administrative Case Listing
DOT OPS.....	Incident and Accident Data
CONSENT.....	Superfund (CERCLA) Consent Decrees
INDIAN RESERV.....	Indian Reservations

EXECUTIVE SUMMARY

FUSRAP.....	Formerly Utilized Sites Remedial Action Program
UMTRA.....	Uranium Mill Tailings Sites
LEAD SMELTERS.....	Lead Smelter Sites
US AIRS.....	Aerometric Information Retrieval System Facility Subsystem
US MINES.....	Mines Master Index File
FINDS.....	Facility Index System/Facility Registry System
UXO.....	Unexploded Ordnance Sites
DOCKET HWC.....	Hazardous Waste Compliance Docket Listing
CA BOND EXP. PLAN.....	Bond Expenditure Plan
Cortese.....	"Cortese" Hazardous Waste & Substances Sites List
CUPA Listings.....	CUPA Resources List
DRYCLEANERS.....	Cleaner Facilities
EMI.....	Emissions Inventory Data
ENF.....	Enforcement Action Listing
Financial Assurance.....	Financial Assurance Information Listing
HAZNET.....	Facility and Manifest Data
HIST CORTESE.....	Hazardous Waste & Substance Site List
HWP.....	EnviroStor Permitted Facilities Listing
HWT.....	Registered Hazardous Waste Transporter Database
MINES.....	Mines Site Location Listing
MWMP.....	Medical Waste Management Program Listing
NPDES.....	NPDES Permits Listing
PEST LIC.....	Pesticide Regulation Licenses Listing
PROC.....	Certified Processors Database
Notify 65.....	Proposition 65 Records
UIC.....	UIC Listing
WASTEWATER PITS.....	Oil Wastewater Pits Listing
WDS.....	Waste Discharge System
WIP.....	Well Investigation Program Case List
ICE.....	ICE
ECHO.....	Enforcement & Compliance History Information
FUELS PROGRAM.....	EPA Fuels Program Registered Listing

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP.....	EDR Proprietary Manufactured Gas Plants
EDR Hist Auto.....	EDR Exclusive Historic Gas Stations
EDR Hist Cleaner.....	EDR Exclusive Historic Dry Cleaners

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA LF.....	Recovered Government Archive Solid Waste Facilities List
RGA LUST.....	Recovered Government Archive Leaking Underground Storage Tank

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

EXECUTIVE SUMMARY

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property. Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

STANDARD ENVIRONMENTAL RECORDS

State and tribal leaking storage tank lists

SLIC: SLIC Region comes from the California Regional Water Quality Control Board.

A review of the SLIC list, as provided by EDR, has revealed that there is 1 SLIC site within approximately 0.5 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<i>SANTA ROSA ACADEMY C</i>	<i>27587 LA PIEDRA ROAD</i>	<i>NW 1/4 - 1/2 (0.318 mi.)</i>	<i>1</i>	<i>8</i>
Database: SLIC, Date of Government Version: 06/13/2016				
Facility Status: Completed - Case Closed				
Global Id: T10000007135				

EXECUTIVE SUMMARY

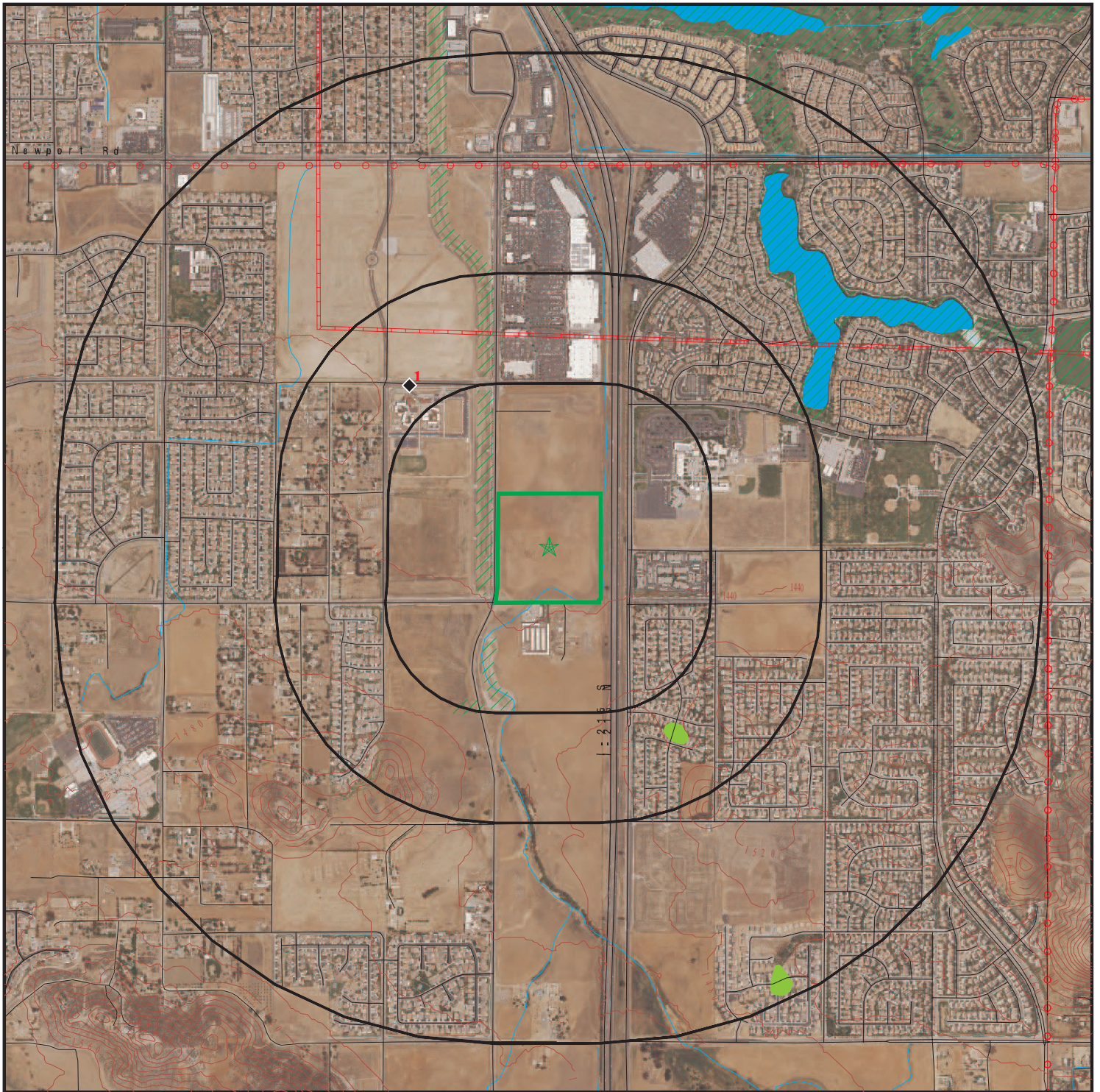
Due to poor or inadequate address information, the following sites were not mapped. Count: 6 records.

Site Name


Database(s)


CDL
CDL
CDL
CDL
CDL
CDL

OVERVIEW MAP - 4737393.2S



 Target Property

 Sites at elevations higher than or equal to the target property

 Sites at elevations lower than the target property

 Manufactured Gas Plants

 National Priority List Sites


 Dept. Defense Sites

 Indian Reservations BIA

 Power transmission lines


 Pipelines

 100-year flood zone

 500-year flood zone

 National Wetland Inventory

 State Wetlands

 Areas of Concern

0 1/4 1/2 1 Miles

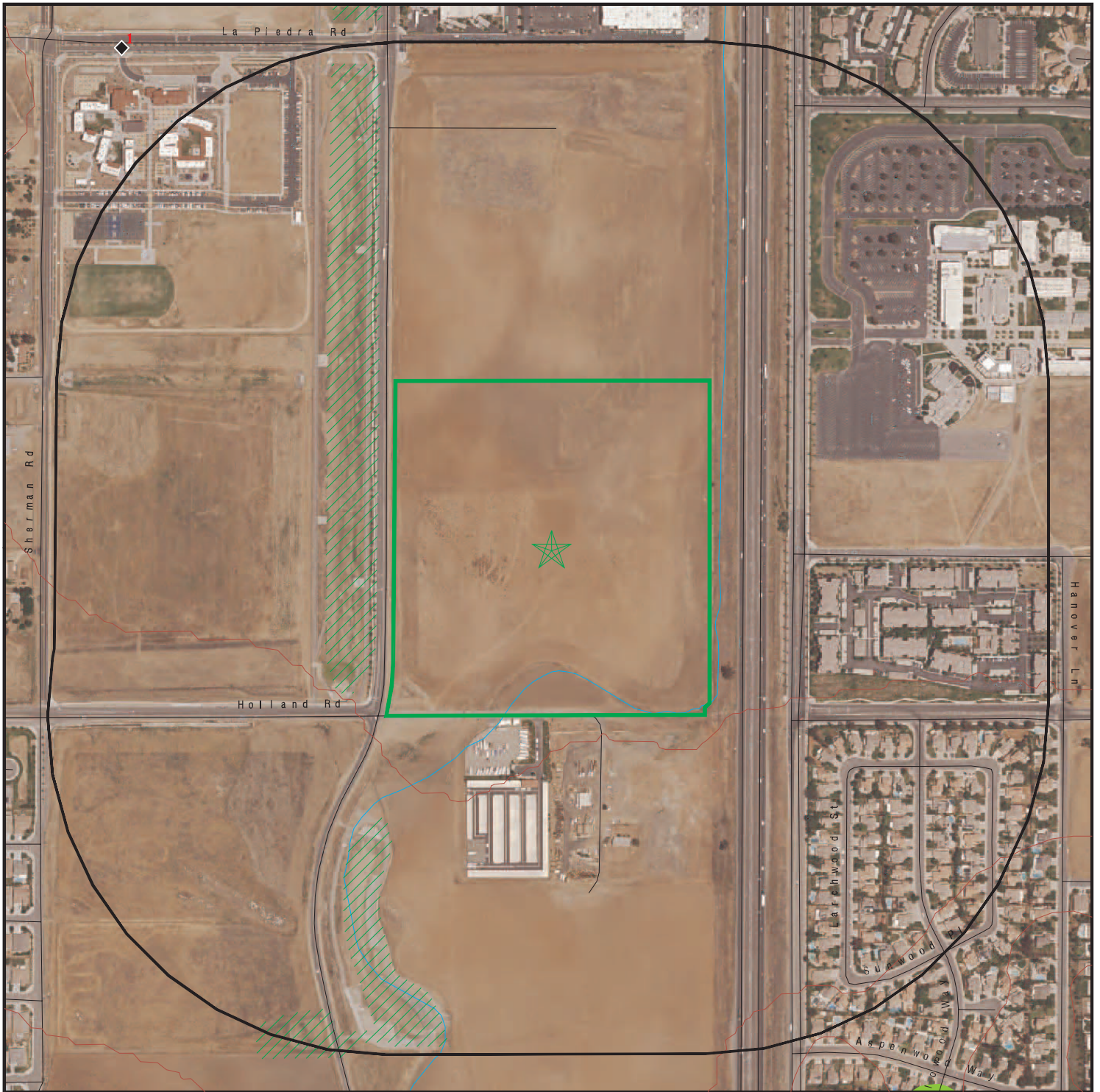









This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: 363593 PM
ADDRESS: I-215 & Holland Road
Menifee CA 92584
LAT/LONG: 33.672251 / 117.173492

CLIENT: AEI Consultants
CONTACT: Kimberly Butler
INQUIRY #: 4737393.2s
DATE: September 26, 2016 7:45 pm

DETAIL MAP - 4737393.2S



-  Target Property
-  Sites at elevations higher than or equal to the target property
-  Sites at elevations lower than the target property
-  Manufactured Gas Plants
-  Sensitive Receptors
-  National Priority List Sites
-  Dept. Defense Sites

-  Indian Reservations BIA
-  100-year flood zone
-  500-year flood zone
-  National Wetland Inventory
-  State Wetlands
-  Areas of Concern

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: 363593 PM
 ADDRESS: I-215 & Holland Road
 Menifee CA 92584
 LAT/LONG: 33.672251 / 117.173492

CLIENT: AEI Consultants
 CONTACT: Kimberly Butler
 INQUIRY #: 4737393.2s
 DATE: September 26, 2016 7:46 pm

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMENTAL RECORDS								
<i>Federal NPL site list</i>								
NPL	1.000		0	0	0	0	NR	0
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	TP		NR	NR	NR	NR	NR	0
<i>Federal Delisted NPL site list</i>								
Delisted NPL	1.000		0	0	0	0	NR	0
<i>Federal CERCLIS list</i>								
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
SEMS	0.500		0	0	0	NR	NR	0
<i>Federal CERCLIS NFRAP site list</i>								
SEMS-ARCHIVE	0.500		0	0	0	NR	NR	0
<i>Federal RCRA CORRACTS facilities list</i>								
CORRACTS	1.000		0	0	0	0	NR	0
<i>Federal RCRA non-CORRACTS TSD facilities list</i>								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
<i>Federal RCRA generators list</i>								
RCRA-LQG	0.250		0	0	NR	NR	NR	0
RCRA-SQG	0.250		0	0	NR	NR	NR	0
RCRA-CESQG	0.250		0	0	NR	NR	NR	0
<i>Federal institutional controls / engineering controls registries</i>								
LUCIS	0.500		0	0	0	NR	NR	0
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROL	0.500		0	0	0	NR	NR	0
<i>Federal ERNS list</i>								
ERNS	TP		NR	NR	NR	NR	NR	0
<i>State- and tribal - equivalent NPL</i>								
RESPONSE	1.000		0	0	0	0	NR	0
<i>State- and tribal - equivalent CERCLIS</i>								
ENVIROSTOR	1.000		0	0	0	0	NR	0
<i>State and tribal landfill and/or solid waste disposal site lists</i>								
SWF/LF	0.500		0	0	0	NR	NR	0
<i>State and tribal leaking storage tank lists</i>								
LUST	0.500		0	0	0	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
INDIAN LUST	0.500		0	0	0	NR	NR	0
SLIC	0.500		0	0	1	NR	NR	1
State and tribal registered storage tank lists								
FEMA UST	0.250		0	0	NR	NR	NR	0
UST	0.250		0	0	NR	NR	NR	0
AST	0.250		0	0	NR	NR	NR	0
INDIAN UST	0.250		0	0	NR	NR	NR	0
State and tribal voluntary cleanup sites								
VCP	0.500		0	0	0	NR	NR	0
INDIAN VCP	0.500		0	0	0	NR	NR	0
State and tribal Brownfields sites								
BROWNFIELDS	0.500		0	0	0	NR	NR	0
ADDITIONAL ENVIRONMENTAL RECORDS								
Local Brownfield lists								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
Local Lists of Landfill / Solid Waste Disposal Sites								
WMUDS/SWAT	0.500		0	0	0	NR	NR	0
SWRCY	0.500		0	0	0	NR	NR	0
HAULERS	TP		NR	NR	NR	NR	NR	0
INDIAN ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
ODI	0.500		0	0	0	NR	NR	0
Local Lists of Hazardous waste / Contaminated Sites								
US HIST CDL	TP		NR	NR	NR	NR	NR	0
HIST Cal-Sites	1.000		0	0	0	0	NR	0
SCH	0.250		0	0	NR	NR	NR	0
CDL	TP		NR	NR	NR	NR	NR	0
Toxic Pits	1.000		0	0	0	0	NR	0
US CDL	TP		NR	NR	NR	NR	NR	0
Local Lists of Registered Storage Tanks								
SWEEPS UST	0.250		0	0	NR	NR	NR	0
HIST UST	0.250		0	0	NR	NR	NR	0
CA FID UST	0.250		0	0	NR	NR	NR	0
Local Land Records								
LIENS	TP		NR	NR	NR	NR	NR	0
LIENS 2	TP		NR	NR	NR	NR	NR	0
DEED	0.500		0	0	0	NR	NR	0
Records of Emergency Release Reports								
HMIRS	TP		NR	NR	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
CHMIRS	TP		NR	NR	NR	NR	NR	0
LDS	TP		NR	NR	NR	NR	NR	0
MCS	TP		NR	NR	NR	NR	NR	0
SPILLS 90	TP		NR	NR	NR	NR	NR	0
Other Ascertainable Records								
RCRA NonGen / NLR	0.250		0	0	NR	NR	NR	0
FUDS	1.000		0	0	0	0	NR	0
DOD	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
US FIN ASSUR	TP		NR	NR	NR	NR	NR	0
EPA WATCH LIST	TP		NR	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
TSCA	TP		NR	NR	NR	NR	NR	0
TRIS	TP		NR	NR	NR	NR	NR	0
SSTS	TP		NR	NR	NR	NR	NR	0
ROD	1.000		0	0	0	0	NR	0
RMP	TP		NR	NR	NR	NR	NR	0
RAATS	TP		NR	NR	NR	NR	NR	0
PRP	TP		NR	NR	NR	NR	NR	0
PADS	TP		NR	NR	NR	NR	NR	0
ICIS	TP		NR	NR	NR	NR	NR	0
FTTS	TP		NR	NR	NR	NR	NR	0
MLTS	TP		NR	NR	NR	NR	NR	0
COAL ASH DOE	TP		NR	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
PCB TRANSFORMER	TP		NR	NR	NR	NR	NR	0
RADINFO	TP		NR	NR	NR	NR	NR	0
HIST FTTS	TP		NR	NR	NR	NR	NR	0
DOT OPS	TP		NR	NR	NR	NR	NR	0
CONSENT	1.000		0	0	0	0	NR	0
INDIAN RESERV	1.000		0	0	0	0	NR	0
FUSRAP	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
LEAD SMELTERS	TP		NR	NR	NR	NR	NR	0
US AIRS	TP		NR	NR	NR	NR	NR	0
US MINES	0.250		0	0	NR	NR	NR	0
FINDS	TP		NR	NR	NR	NR	NR	0
UXO	1.000		0	0	0	0	NR	0
DOCKET HWC	TP		NR	NR	NR	NR	NR	0
CA BOND EXP. PLAN	1.000		0	0	0	0	NR	0
Cortese	0.500		0	0	0	NR	NR	0
CUPA Listings	0.250		0	0	NR	NR	NR	0
DRYCLEANERS	0.250		0	0	NR	NR	NR	0
EMI	TP		NR	NR	NR	NR	NR	0
ENF	TP		NR	NR	NR	NR	NR	0
Financial Assurance	TP		NR	NR	NR	NR	NR	0
HAZNET	TP		NR	NR	NR	NR	NR	0
HIST CORTESE	0.500		0	0	0	NR	NR	0
HWP	1.000		0	0	0	0	NR	0
HWT	0.250		0	0	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
MINES	TP		NR	NR	NR	NR	NR	0
MWMP	0.250		0	0	NR	NR	NR	0
NPDES	TP		NR	NR	NR	NR	NR	0
PEST LIC	TP		NR	NR	NR	NR	NR	0
PROC	0.500		0	0	0	NR	NR	0
Notify 65	1.000		0	0	0	0	NR	0
UIC	TP		NR	NR	NR	NR	NR	0
WASTEWATER PITS	0.500		0	0	0	NR	NR	0
WDS	TP		NR	NR	NR	NR	NR	0
WIP	0.250		0	0	NR	NR	NR	0
ICE	1.000		0	0	0	0	NR	0
ECHO	TP		NR	NR	NR	NR	NR	0
FUELS PROGRAM	0.250		0	0	NR	NR	NR	0

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP	1.000		0	0	0	0	NR	0
EDR Hist Auto	0.125		0	NR	NR	NR	NR	0
EDR Hist Cleaner	0.125		0	NR	NR	NR	NR	0

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA LF	TP		NR	NR	NR	NR	NR	0
RGA LUST	TP		NR	NR	NR	NR	NR	0

- Totals --		0	0	0	1	0	0	1
-------------	--	---	---	---	---	---	---	---

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

1
NW
1/4-1/2
0.318 mi.
1678 ft.

SANTA ROSA ACADEMY CHARTER SCHOOL
27587 LA PIEDRA ROAD
MENIFEE, CA 92586

SLIC **S111828771**
NPDES **N/A**

Relative:
Lower

SLIC:

Actual:
1432 ft.

Region: STATE
Facility Status: Completed - Case Closed
Status Date: 07/21/2012
Global Id: T10000007135
Lead Agency: RIVERSIDE COUNTY LOP
Lead Agency Case Number: SR0025507
Latitude: 33.67643
Longitude: -117.17827
Case Type: Cleanup Program Site
Case Worker: SCB
Local Agency: RIVERSIDE COUNTY LOP
RB Case Number: Not reported
File Location: Local Agency
Potential Media Affected: Not reported
Potential Contaminants of Concern: Not reported
Site History: Not reported

[Click here to access the California GeoTracker records for this facility:](#)

NPDES:

Npdes Number: Not reported
Facility Status: Not reported
Agency Id: Not reported
Region: 8
Regulatory Measure Id: 424183
Order No: Not reported
Regulatory Measure Type: Construction
Place Id: Not reported
WDID: 8 33C363444
Program Type: Not reported
Adoption Date Of Regulatory Measure: Not reported
Effective Date Of Regulatory Measure: Not reported
Expiration Date Of Regulatory Measure: Not reported
Termination Date Of Regulatory Measure: Not reported
Discharge Name: Not reported
Discharge Address: Not reported
Discharge City: Not reported
Discharge State: Not reported
Discharge Zip: Not reported
RECEIVED DATE: 3/26/2012
PROCESSED DATE: 4/17/2012
STATUS CODE NAME: Active
STATUS DATE: 4/17/2012
PLACE SIZE: 26.2
PLACE SIZE UNIT: 52
FACILITY CONTACT NAME: LINDA GORENS
FACILITY CONTACT TITLE: Managing Director
FACILITY CONTACT PHONE: 414-294-7550
FACILITY CONTACT PHONE EXT: Not reported
FACILITY CONTACT EMAIL: lgorens@starkinvestments.com
OPERATOR NAME: STARK MENIFEE LAND LLC
OPERATOR ADDRESS: 3600 S LAKE DRIVE

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SANTA ROSA ACADEMY CHARTER SCHOOL (Continued)

S111828771

OPERATOR CITY: ST FRANCIS
OPERATOR STATE: Wisconsin
OPERATOR ZIP: 53235
OPERATOR CONTACT NAME: LINDA GORENS
OPERATOR CONTACT TITLE: Managing Director
OPERATOR CONTACT PHONE: 414-294-7550
OPERATOR CONTACT PHONE EXT: Not reported
OPERATOR CONTACT EMAIL: lgorens@starkinvestments.com
OPERATOR TYPE: Private Business
DEVELOPER NAME: Regent Properties
DEVELOPER ADDRESS: 11990 San Vicente Blvd
DEVELOPER CITY: Los Angeles
DEVELOPER STATE: Wisconsin
DEVELOPER ZIP: 90049
DEVELOPER CONTACT NAME: Daniel Gryczman
DEVELOPER CONTACT TITLE: Executive Vice President
CONSTYPE LINEAR UTILITY IND: N
EMERGENCY PHONE NO: Not reported
EMERGENCY PHONE EXT: Not reported
CONSTYPE ABOVE GROUND IND: Not reported
CONSTYPE BELOW GROUND IND: Not reported
CONSTYPE CABLE LINE IND: Not reported
CONSTYPE COMM LINE IND: Not reported
CONSTYPE COMMERTIAL IND: Y
CONSTYPE ELECTRICAL LINE IND: Not reported
CONSTYPE GAS LINE IND: Not reported
CONSTYPE INDUSTRIAL IND: Not reported
CONSTYPE OTHER DESRIPTION: School
CONSTYPE OTHER IND: Y
CONSTYPE RECONS IND: Not reported
CONSTYPE RESIDENTIAL IND: Y
CONSTYPE TRANSPORT IND: Not reported
CONSTYPE UTILITY DESCRIPTION: Not reported
CONSTYPE UTILITY IND: Not reported
CONSTYPE WATER SEWER IND: Not reported
DIR DISCHARGE USWATER IND: N
RECEIVING WATER NAME: Lake Elsinor & Canyon Lake
CERTIFIER NAME: LINDA GORENS
CERTIFIER TITLE: Not reported
CERTIFICATION DATE: 26-MAR-12
PRIMARY SIC: Not reported
SECONDARY SIC: Not reported
TERTIARY SIC: Not reported

Npdes Number: CAS000002
Facility Status: Active
Agency Id: 0
Region: 8
Regulatory Measure Id: 454213
Order No: 2009-0009-DWQ
Regulatory Measure Type: Enrollee
Place Id: Not reported
WDID: 8 33C372784
Program Type: Construction
Adoption Date Of Regulatory Measure: Not reported
Effective Date Of Regulatory Measure: 04/28/2015
Expiration Date Of Regulatory Measure: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SANTA ROSA ACADEMY CHARTER SCHOOL (Continued)

S111828771

Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Santa Rosa Academy
Discharge Address:	28237 La Piedra Road
Discharge City:	Menifee
Discharge State:	California
Discharge Zip:	92584
RECEIVED DATE:	Not reported
PROCESSED DATE:	Not reported
STATUS CODE NAME:	Not reported
STATUS DATE:	Not reported
PLACE SIZE:	Not reported
PLACE SIZE UNIT:	Not reported
FACILITY CONTACT NAME:	Not reported
FACILITY CONTACT TITLE:	Not reported
FACILITY CONTACT PHONE:	Not reported
FACILITY CONTACT PHONE EXT:	Not reported
FACILITY CONTACT EMAIL:	Not reported
OPERATOR NAME:	Not reported
OPERATOR ADDRESS:	Not reported
OPERATOR CITY:	Not reported
OPERATOR STATE:	Not reported
OPERATOR ZIP:	Not reported
OPERATOR CONTACT NAME:	Not reported
OPERATOR CONTACT TITLE:	Not reported
OPERATOR CONTACT PHONE:	Not reported
OPERATOR CONTACT PHONE EXT:	Not reported
OPERATOR CONTACT EMAIL:	Not reported
OPERATOR TYPE:	Not reported
DEVELOPER NAME:	Not reported
DEVELOPER ADDRESS:	Not reported
DEVELOPER CITY:	Not reported
DEVELOPER STATE:	Not reported
DEVELOPER ZIP:	Not reported
DEVELOPER CONTACT NAME:	Not reported
DEVELOPER CONTACT TITLE:	Not reported
CONSTYPE LINEAR UTILITY IND:	Not reported
EMERGENCY PHONE NO:	Not reported
EMERGENCY PHONE EXT:	Not reported
CONSTYPE ABOVE GROUND IND:	Not reported
CONSTYPE BELOW GROUND IND:	Not reported
CONSTYPE CABLE LINE IND:	Not reported
CONSTYPE COMM LINE IND:	Not reported
CONSTYPE COMMERTIAL IND:	Not reported
CONSTYPE ELECTRICAL LINE IND:	Not reported
CONSTYPE GAS LINE IND:	Not reported
CONSTYPE INDUSTRIAL IND:	Not reported
CONSTYPE OTHER DESRIPTION:	Not reported
CONSTYPE OTHER IND:	Not reported
CONSTYPE RECONS IND:	Not reported
CONSTYPE RESIDENTIAL IND:	Not reported
CONSTYPE TRANSPORT IND:	Not reported
CONSTYPE UTILITY DESCRIPTION:	Not reported
CONSTYPE UTILITY IND:	Not reported
CONSTYPE WATER SEWER IND:	Not reported
DIR DISCHARGE USWATER IND:	Not reported
RECEIVING WATER NAME:	Not reported
CERTIFIER NAME:	Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SANTA ROSA ACADEMY CHARTER SCHOOL (Continued)

S111828771

CERTIFIER TITLE:	Not reported
CERTIFICATION DATE:	Not reported
PRIMARY SIC:	Not reported
SECONDARY SIC:	Not reported
TERTIARY SIC:	Not reported
Npdes Number:	CAS000002
Facility Status:	Terminated
Agency Id:	0
Region:	8
Regulatory Measure Id:	430034
Order No:	2009-0009-DWQ
Regulatory Measure Type:	Enrollee
Place Id:	Not reported
WDID:	8 33C364381
Program Type:	Construction
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	08/16/2012
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	04/21/2014
Discharge Name:	Santa Rosa Academy
Discharge Address:	28237 La Piedra Road
Discharge City:	Menifee
Discharge State:	California
Discharge Zip:	92584
RECEIVED DATE:	Not reported
PROCESSED DATE:	Not reported
STATUS CODE NAME:	Not reported
STATUS DATE:	Not reported
PLACE SIZE:	Not reported
PLACE SIZE UNIT:	Not reported
FACILITY CONTACT NAME:	Not reported
FACILITY CONTACT TITLE:	Not reported
FACILITY CONTACT PHONE:	Not reported
FACILITY CONTACT PHONE EXT:	Not reported
FACILITY CONTACT EMAIL:	Not reported
OPERATOR NAME:	Not reported
OPERATOR ADDRESS:	Not reported
OPERATOR CITY:	Not reported
OPERATOR STATE:	Not reported
OPERATOR ZIP:	Not reported
OPERATOR CONTACT NAME:	Not reported
OPERATOR CONTACT TITLE:	Not reported
OPERATOR CONTACT PHONE:	Not reported
OPERATOR CONTACT PHONE EXT:	Not reported
OPERATOR CONTACT EMAIL:	Not reported
OPERATOR TYPE:	Not reported
DEVELOPER NAME:	Not reported
DEVELOPER ADDRESS:	Not reported
DEVELOPER CITY:	Not reported
DEVELOPER STATE:	Not reported
DEVELOPER ZIP:	Not reported
DEVELOPER CONTACT NAME:	Not reported
DEVELOPER CONTACT TITLE:	Not reported
CONSTYPE LINEAR UTILITY IND:	Not reported
EMERGENCY PHONE NO:	Not reported
EMERGENCY PHONE EXT:	Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SANTA ROSA ACADEMY CHARTER SCHOOL (Continued)

S111828771

CONSTYPE ABOVE GROUND IND:	Not reported
CONSTYPE BELOW GROUND IND:	Not reported
CONSTYPE CABLE LINE IND:	Not reported
CONSTYPE COMM LINE IND:	Not reported
CONSTYPE COMMERTIAL IND:	Not reported
CONSTYPE ELECTRICAL LINE IND:	Not reported
CONSTYPE GAS LINE IND:	Not reported
CONSTYPE INDUSTRIAL IND:	Not reported
CONSTYPE OTHER DESRIPTION:	Not reported
CONSTYPE OTHER IND:	Not reported
CONSTYPE RECONS IND:	Not reported
CONSTYPE RESIDENTIAL IND:	Not reported
CONSTYPE TRANSPORT IND:	Not reported
CONSTYPE UTILITY DESCRIPTION:	Not reported
CONSTYPE UTILITY IND:	Not reported
CONSTYPE WATER SEWER IND:	Not reported
DIR DISCHARGE USWATER IND:	Not reported
RECEIVING WATER NAME:	Not reported
CERTIFIER NAME:	Not reported
CERTIFIER TITLE:	Not reported
CERTIFICATION DATE:	Not reported
PRIMARY SIC:	Not reported
SECONDARY SIC:	Not reported
TERTIARY SIC:	Not reported

Count: 6 records.

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
RIVERSIDE COUNTY	S107530372		19541 BLUE SKY (NEAR SANTA ROS		CDL
RIVERSIDE COUNTY	S107537885		BOX SPRINGS RD & HWY 215 (SEE		CDL
RIVERSIDE COUNTY	S107538960		INDIO HILLS, DILLON RD & DOLLA		CDL
RIVERSIDE COUNTY	S107537442		@ RAMONA EXPRESSWAY & RIDER ST		CDL
RIVERSIDE COUNTY	S107540860		TEMECULA VEHICLE & TRANSPORT C		CDL
RIVERSIDE COUNTY	S107539457		MT VERNON RD & SERPENTINE		CDL

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 03/07/2016	Source: EPA
Date Data Arrived at EDR: 04/05/2016	Telephone: N/A
Date Made Active in Reports: 04/15/2016	Last EDR Contact: 07/07/2016
Number of Days to Update: 10	Next Scheduled EDR Contact: 10/17/2016
	Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 6
Telephone: 214-655-6659

EPA Region 3
Telephone 215-814-5418

EPA Region 7
Telephone: 913-551-7247

EPA Region 4
Telephone 404-562-8033

EPA Region 8
Telephone: 303-312-6774

EPA Region 5
Telephone 312-886-6686

EPA Region 9
Telephone: 415-947-4246

EPA Region 10
Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 03/07/2016	Source: EPA
Date Data Arrived at EDR: 04/05/2016	Telephone: N/A
Date Made Active in Reports: 04/15/2016	Last EDR Contact: 07/07/2016
Number of Days to Update: 10	Next Scheduled EDR Contact: 10/17/2016
	Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991	Source: EPA
Date Data Arrived at EDR: 02/02/1994	Telephone: 202-564-4267
Date Made Active in Reports: 03/30/1994	Last EDR Contact: 08/15/2011
Number of Days to Update: 56	Next Scheduled EDR Contact: 11/28/2011
	Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Federal Delisted NPL site list

Delisted NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 03/07/2016	Source: EPA
Date Data Arrived at EDR: 04/05/2016	Telephone: N/A
Date Made Active in Reports: 04/15/2016	Last EDR Contact: 07/07/2016
Number of Days to Update: 10	Next Scheduled EDR Contact: 10/17/2016
	Data Release Frequency: Quarterly

Federal CERCLIS list

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 11/13/2015	Source: Environmental Protection Agency
Date Data Arrived at EDR: 01/06/2016	Telephone: 703-603-8704
Date Made Active in Reports: 05/20/2016	Last EDR Contact: 07/06/2016
Number of Days to Update: 135	Next Scheduled EDR Contact: 10/17/2016
	Data Release Frequency: Varies

SEMS: Superfund Enterprise Management System

SEMS (Superfund Enterprise Management System) tracks hazardous waste sites, potentially hazardous waste sites, and remedial activities performed in support of EPA's Superfund Program across the United States. The list was formerly known as CERCLIS, renamed to SEMS by the EPA in 2015. The list contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). This dataset also contains sites which are either proposed to or on the National Priorities List (NPL) and the sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 03/07/2016	Source: EPA
Date Data Arrived at EDR: 04/05/2016	Telephone: 800-424-9346
Date Made Active in Reports: 04/15/2016	Last EDR Contact: 07/22/2016
Number of Days to Update: 10	Next Scheduled EDR Contact: 10/31/2016
	Data Release Frequency: Quarterly

Federal CERCLIS NFRAP site list

SEMS-ARCHIVE: Superfund Enterprise Management System Archive

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list the site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. The decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be potential NPL site.

Date of Government Version: 03/07/2016	Source: EPA
Date Data Arrived at EDR: 04/05/2016	Telephone: 800-424-9346
Date Made Active in Reports: 04/15/2016	Last EDR Contact: 07/22/2016
Number of Days to Update: 10	Next Scheduled EDR Contact: 10/31/2016
	Data Release Frequency: Quarterly

Federal RCRA CORRACTS facilities list

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 06/27/2016	Source: EPA
Date Data Arrived at EDR: 06/30/2016	Telephone: 800-424-9346
Date Made Active in Reports: 09/02/2016	Last EDR Contact: 06/30/2016
Number of Days to Update: 64	Next Scheduled EDR Contact: 10/10/2016
	Data Release Frequency: Quarterly

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 06/21/2016	Source: Environmental Protection Agency
Date Data Arrived at EDR: 06/30/2016	Telephone: (415) 495-8895
Date Made Active in Reports: 09/02/2016	Last EDR Contact: 06/30/2016
Number of Days to Update: 64	Next Scheduled EDR Contact: 10/17/2016
	Data Release Frequency: Quarterly

Federal RCRA generators list

RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 06/21/2016	Source: Environmental Protection Agency
Date Data Arrived at EDR: 06/30/2016	Telephone: (415) 495-8895
Date Made Active in Reports: 09/02/2016	Last EDR Contact: 06/30/2016
Number of Days to Update: 64	Next Scheduled EDR Contact: 10/17/2016
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 06/21/2016	Source: Environmental Protection Agency
Date Data Arrived at EDR: 06/30/2016	Telephone: (415) 495-8895
Date Made Active in Reports: 09/02/2016	Last EDR Contact: 06/30/2016
Number of Days to Update: 64	Next Scheduled EDR Contact: 10/17/2016
	Data Release Frequency: Quarterly

RCRA-CESQG: RCRA - Conditionally Exempt Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 06/21/2016	Source: Environmental Protection Agency
Date Data Arrived at EDR: 06/30/2016	Telephone: (415) 495-8895
Date Made Active in Reports: 09/02/2016	Last EDR Contact: 06/30/2016
Number of Days to Update: 64	Next Scheduled EDR Contact: 10/17/2016
	Data Release Frequency: Varies

Federal institutional controls / engineering controls registries

LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 05/28/2015	Source: Department of the Navy
Date Data Arrived at EDR: 05/29/2015	Telephone: 843-820-7326
Date Made Active in Reports: 06/11/2015	Last EDR Contact: 08/12/2016
Number of Days to Update: 13	Next Scheduled EDR Contact: 11/28/2016
	Data Release Frequency: Varies

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 05/09/2016	Source: Environmental Protection Agency
Date Data Arrived at EDR: 06/01/2016	Telephone: 703-603-0695
Date Made Active in Reports: 09/02/2016	Last EDR Contact: 08/31/2016
Number of Days to Update: 93	Next Scheduled EDR Contact: 12/12/2016
	Data Release Frequency: Varies

US INST CONTROL: Sites with Institutional Controls

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 05/09/2016	Source: Environmental Protection Agency
Date Data Arrived at EDR: 06/01/2016	Telephone: 703-603-0695
Date Made Active in Reports: 09/02/2016	Last EDR Contact: 08/31/2016
Number of Days to Update: 93	Next Scheduled EDR Contact: 12/12/2016
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Federal ERNS list

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 03/28/2016
Date Data Arrived at EDR: 03/30/2016
Date Made Active in Reports: 05/20/2016
Number of Days to Update: 51

Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Last EDR Contact: 06/28/2016
Next Scheduled EDR Contact: 10/10/2016
Data Release Frequency: Annually

State- and tribal - equivalent NPL

RESPONSE: State Response Sites

Identifies confirmed release sites where DTSC is involved in remediation, either in a lead or oversight capacity. These confirmed release sites are generally high-priority and high potential risk.

Date of Government Version: 05/02/2016
Date Data Arrived at EDR: 05/04/2016
Date Made Active in Reports: 06/21/2016
Number of Days to Update: 48

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 08/02/2016
Next Scheduled EDR Contact: 11/14/2016
Data Release Frequency: Quarterly

State- and tribal - equivalent CERCLIS

ENVIROSTOR: EnviroStor Database

The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifies sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

Date of Government Version: 05/02/2016
Date Data Arrived at EDR: 05/04/2016
Date Made Active in Reports: 06/21/2016
Number of Days to Update: 48

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 08/02/2016
Next Scheduled EDR Contact: 11/14/2016
Data Release Frequency: Quarterly

State and tribal landfill and/or solid waste disposal site lists

SWF/LF (SWIS): Solid Waste Information System

Active, Closed and Inactive Landfills. SWF/LF records typically contain an inventory of solid waste disposal facilities or landfills. These may be active or inactive facilities or open dumps that failed to meet RCRA Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 05/16/2016
Date Data Arrived at EDR: 05/18/2016
Date Made Active in Reports: 06/21/2016
Number of Days to Update: 34

Source: Department of Resources Recycling and Recovery
Telephone: 916-341-6320
Last EDR Contact: 08/16/2016
Next Scheduled EDR Contact: 11/28/2016
Data Release Frequency: Quarterly

State and tribal leaking storage tank lists

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

LUST REG 5: Leaking Underground Storage Tank Database

Leaking Underground Storage Tank locations. Alameda, Alpine, Amador, Butte, Colusa, Contra Costa, Calveras, El Dorado, Fresno, Glenn, Kern, Kings, Lake, Lassen, Madera, Mariposa, Merced, Modoc, Napa, Nevada, Placer, Plumas, Sacramento, San Joaquin, Shasta, Solano, Stanislaus, Sutter, Tehama, Tulare, Tuolumne, Yolo, Yuba counties.

Date of Government Version: 07/01/2008

Date Data Arrived at EDR: 07/22/2008

Date Made Active in Reports: 07/31/2008

Number of Days to Update: 9

Source: California Regional Water Quality Control Board Central Valley Region (5)

Telephone: 916-464-4834

Last EDR Contact: 07/01/2011

Next Scheduled EDR Contact: 10/17/2011

Data Release Frequency: No Update Planned

LUST REG 9: Leaking Underground Storage Tank Report

Orange, Riverside, San Diego counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 03/01/2001

Date Data Arrived at EDR: 04/23/2001

Date Made Active in Reports: 05/21/2001

Number of Days to Update: 28

Source: California Regional Water Quality Control Board San Diego Region (9)

Telephone: 858-637-5595

Last EDR Contact: 09/26/2011

Next Scheduled EDR Contact: 01/09/2012

Data Release Frequency: No Update Planned

LUST REG 8: Leaking Underground Storage Tanks

California Regional Water Quality Control Board Santa Ana Region (8). For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/14/2005

Date Data Arrived at EDR: 02/15/2005

Date Made Active in Reports: 03/28/2005

Number of Days to Update: 41

Source: California Regional Water Quality Control Board Santa Ana Region (8)

Telephone: 909-782-4496

Last EDR Contact: 08/15/2011

Next Scheduled EDR Contact: 11/28/2011

Data Release Frequency: Varies

LUST REG 7: Leaking Underground Storage Tank Case Listing

Leaking Underground Storage Tank locations. Imperial, Riverside, San Diego, Santa Barbara counties.

Date of Government Version: 02/26/2004

Date Data Arrived at EDR: 02/26/2004

Date Made Active in Reports: 03/24/2004

Number of Days to Update: 27

Source: California Regional Water Quality Control Board Colorado River Basin Region (7)

Telephone: 760-776-8943

Last EDR Contact: 08/01/2011

Next Scheduled EDR Contact: 11/14/2011

Data Release Frequency: No Update Planned

LUST REG 6V: Leaking Underground Storage Tank Case Listing

Leaking Underground Storage Tank locations. Inyo, Kern, Los Angeles, Mono, San Bernardino counties.

Date of Government Version: 06/07/2005

Date Data Arrived at EDR: 06/07/2005

Date Made Active in Reports: 06/29/2005

Number of Days to Update: 22

Source: California Regional Water Quality Control Board Victorville Branch Office (6)

Telephone: 760-241-7365

Last EDR Contact: 09/12/2011

Next Scheduled EDR Contact: 12/26/2011

Data Release Frequency: No Update Planned

LUST REG 6L: Leaking Underground Storage Tank Case Listing

For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/09/2003

Date Data Arrived at EDR: 09/10/2003

Date Made Active in Reports: 10/07/2003

Number of Days to Update: 27

Source: California Regional Water Quality Control Board Lahontan Region (6)

Telephone: 530-542-5572

Last EDR Contact: 09/12/2011

Next Scheduled EDR Contact: 12/26/2011

Data Release Frequency: No Update Planned

LUST: Geotracker's Leaking Underground Fuel Tank Report

Leaking Underground Storage Tank Incident Reports. LUST records contain an inventory of reported leaking underground storage tank incidents. Not all states maintain these records, and the information stored varies by state. For more information on a particular leaking underground storage tank sites, please contact the appropriate regulatory agency.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 06/13/2016
Date Data Arrived at EDR: 06/14/2016
Date Made Active in Reports: 08/09/2016
Number of Days to Update: 56

Source: State Water Resources Control Board
Telephone: see region list
Last EDR Contact: 09/13/2016
Next Scheduled EDR Contact: 12/26/2016
Data Release Frequency: Quarterly

LUST REG 4: Underground Storage Tank Leak List

Los Angeles, Ventura counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35

Source: California Regional Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6710
Last EDR Contact: 09/06/2011
Next Scheduled EDR Contact: 12/19/2011
Data Release Frequency: No Update Planned

LUST REG 3: Leaking Underground Storage Tank Database

Leaking Underground Storage Tank locations. Monterey, San Benito, San Luis Obispo, Santa Barbara, Santa Cruz counties.

Date of Government Version: 05/19/2003
Date Data Arrived at EDR: 05/19/2003
Date Made Active in Reports: 06/02/2003
Number of Days to Update: 14

Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-542-4786
Last EDR Contact: 07/18/2011
Next Scheduled EDR Contact: 10/31/2011
Data Release Frequency: No Update Planned

LUST REG 2: Fuel Leak List

Leaking Underground Storage Tank locations. Alameda, Contra Costa, Marin, Napa, San Francisco, San Mateo, Santa Clara, Solano, Sonoma counties.

Date of Government Version: 09/30/2004
Date Data Arrived at EDR: 10/20/2004
Date Made Active in Reports: 11/19/2004
Number of Days to Update: 30

Source: California Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-622-2433
Last EDR Contact: 09/19/2011
Next Scheduled EDR Contact: 01/02/2012
Data Release Frequency: Quarterly

LUST REG 1: Active Toxic Site Investigation

Del Norte, Humboldt, Lake, Mendocino, Modoc, Siskiyou, Sonoma, Trinity counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/01/2001
Date Data Arrived at EDR: 02/28/2001
Date Made Active in Reports: 03/29/2001
Number of Days to Update: 29

Source: California Regional Water Quality Control Board North Coast (1)
Telephone: 707-570-3769
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 12/11/2015
Date Data Arrived at EDR: 02/19/2016
Date Made Active in Reports: 06/03/2016
Number of Days to Update: 105

Source: EPA Region 6
Telephone: 214-665-6597
Last EDR Contact: 07/27/2016
Next Scheduled EDR Contact: 11/07/2016
Data Release Frequency: Varies

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 10/09/2015
Date Data Arrived at EDR: 02/12/2016
Date Made Active in Reports: 06/03/2016
Number of Days to Update: 112

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 07/27/2016
Next Scheduled EDR Contact: 11/07/2016
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 10/13/2015	Source: EPA Region 8
Date Data Arrived at EDR: 10/23/2015	Telephone: 303-312-6271
Date Made Active in Reports: 02/18/2016	Last EDR Contact: 07/27/2016
Number of Days to Update: 118	Next Scheduled EDR Contact: 11/07/2016
	Data Release Frequency: Quarterly

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 02/25/2016	Source: Environmental Protection Agency
Date Data Arrived at EDR: 04/27/2016	Telephone: 415-972-3372
Date Made Active in Reports: 06/03/2016	Last EDR Contact: 07/27/2016
Number of Days to Update: 37	Next Scheduled EDR Contact: 11/07/2016
	Data Release Frequency: Quarterly

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 01/07/2016	Source: EPA Region 10
Date Data Arrived at EDR: 01/08/2016	Telephone: 206-553-2857
Date Made Active in Reports: 02/18/2016	Last EDR Contact: 07/27/2016
Number of Days to Update: 41	Next Scheduled EDR Contact: 11/07/2016
	Data Release Frequency: Quarterly

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land

A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 10/27/2015	Source: EPA Region 1
Date Data Arrived at EDR: 10/29/2015	Telephone: 617-918-1313
Date Made Active in Reports: 01/04/2016	Last EDR Contact: 07/29/2016
Number of Days to Update: 67	Next Scheduled EDR Contact: 11/07/2016
	Data Release Frequency: Varies

INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land

Leaking underground storage tanks located on Indian Land in Michigan, Minnesota and Wisconsin.

Date of Government Version: 02/17/2016	Source: EPA, Region 5
Date Data Arrived at EDR: 04/27/2016	Telephone: 312-886-7439
Date Made Active in Reports: 06/03/2016	Last EDR Contact: 07/27/2016
Number of Days to Update: 37	Next Scheduled EDR Contact: 11/07/2016
	Data Release Frequency: Varies

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 02/05/2016	Source: EPA Region 4
Date Data Arrived at EDR: 04/29/2016	Telephone: 404-562-8677
Date Made Active in Reports: 06/03/2016	Last EDR Contact: 07/26/2016
Number of Days to Update: 35	Next Scheduled EDR Contact: 11/07/2016
	Data Release Frequency: Semi-Annually

SLIC: Statewide SLIC Cases

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 06/13/2016	Source: State Water Resources Control Board
Date Data Arrived at EDR: 06/14/2016	Telephone: 866-480-1028
Date Made Active in Reports: 08/09/2016	Last EDR Contact: 09/13/2016
Number of Days to Update: 56	Next Scheduled EDR Contact: 12/26/2016
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

SLIC REG 1: Active Toxic Site Investigations

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2003
Date Data Arrived at EDR: 04/07/2003
Date Made Active in Reports: 04/25/2003
Number of Days to Update: 18

Source: California Regional Water Quality Control Board, North Coast Region (1)
Telephone: 707-576-2220
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

SLIC REG 2: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/30/2004
Date Data Arrived at EDR: 10/20/2004
Date Made Active in Reports: 11/19/2004
Number of Days to Update: 30

Source: Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-286-0457
Last EDR Contact: 09/19/2011
Next Scheduled EDR Contact: 01/02/2012
Data Release Frequency: Quarterly

SLIC REG 3: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 05/18/2006
Date Data Arrived at EDR: 05/18/2006
Date Made Active in Reports: 06/15/2006
Number of Days to Update: 28

Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-549-3147
Last EDR Contact: 07/18/2011
Next Scheduled EDR Contact: 10/31/2011
Data Release Frequency: Semi-Annually

SLIC REG 4: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 11/17/2004
Date Data Arrived at EDR: 11/18/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 47

Source: Region Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6600
Last EDR Contact: 07/01/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: Varies

SLIC REG 5: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/01/2005
Date Data Arrived at EDR: 04/05/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 16

Source: Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-3291
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: Semi-Annually

SLIC REG 6V: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 05/24/2005
Date Data Arrived at EDR: 05/25/2005
Date Made Active in Reports: 06/16/2005
Number of Days to Update: 22

Source: Regional Water Quality Control Board, Victorville Branch
Telephone: 619-241-6583
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: Semi-Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

SLIC REG 6L: SLIC Sites

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35

Source: California Regional Water Quality Control Board, Lahontan Region
Telephone: 530-542-5574
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

SLIC REG 7: SLIC List

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 11/24/2004
Date Data Arrived at EDR: 11/29/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 36

Source: California Regional Quality Control Board, Colorado River Basin Region
Telephone: 760-346-7491
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

SLIC REG 8: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2008
Date Data Arrived at EDR: 04/03/2008
Date Made Active in Reports: 04/14/2008
Number of Days to Update: 11

Source: California Region Water Quality Control Board Santa Ana Region (8)
Telephone: 951-782-3298
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: Semi-Annually

SLIC REG 9: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/10/2007
Date Data Arrived at EDR: 09/11/2007
Date Made Active in Reports: 09/28/2007
Number of Days to Update: 17

Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-467-2980
Last EDR Contact: 08/08/2011
Next Scheduled EDR Contact: 11/21/2011
Data Release Frequency: Annually

State and tribal registered storage tank lists

FEMA UST: Underground Storage Tank Listing

A listing of all FEMA owned underground storage tanks.

Date of Government Version: 01/01/2010
Date Data Arrived at EDR: 02/16/2010
Date Made Active in Reports: 04/12/2010
Number of Days to Update: 55

Source: FEMA
Telephone: 202-646-5797
Last EDR Contact: 07/07/2016
Next Scheduled EDR Contact: 10/24/2016
Data Release Frequency: Varies

UST: Active UST Facilities

Active UST facilities gathered from the local regulatory agencies

Date of Government Version: 06/13/2016
Date Data Arrived at EDR: 06/14/2016
Date Made Active in Reports: 08/08/2016
Number of Days to Update: 55

Source: SWRCB
Telephone: 916-341-5851
Last EDR Contact: 09/14/2016
Next Scheduled EDR Contact: 12/26/2016
Data Release Frequency: Semi-Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

AST: Aboveground Petroleum Storage Tank Facilities

A listing of aboveground storage tank petroleum storage tank locations.

Date of Government Version: 07/06/2016	Source: California Environmental Protection Agency
Date Data Arrived at EDR: 07/12/2016	Telephone: 916-327-5092
Date Made Active in Reports: 09/19/2016	Last EDR Contact: 07/07/2016
Number of Days to Update: 69	Next Scheduled EDR Contact: 10/10/2016
	Data Release Frequency: Quarterly

INDIAN UST R5: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 11/05/2015	Source: EPA Region 5
Date Data Arrived at EDR: 11/13/2015	Telephone: 312-886-6136
Date Made Active in Reports: 01/04/2016	Last EDR Contact: 07/27/2016
Number of Days to Update: 52	Next Scheduled EDR Contact: 11/07/2016
	Data Release Frequency: Varies

INDIAN UST R10: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 01/07/2016	Source: EPA Region 10
Date Data Arrived at EDR: 01/08/2016	Telephone: 206-553-2857
Date Made Active in Reports: 02/18/2016	Last EDR Contact: 07/27/2016
Number of Days to Update: 41	Next Scheduled EDR Contact: 11/07/2016
	Data Release Frequency: Quarterly

INDIAN UST R9: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 02/25/2016	Source: EPA Region 9
Date Data Arrived at EDR: 04/27/2016	Telephone: 415-972-3368
Date Made Active in Reports: 06/03/2016	Last EDR Contact: 07/27/2016
Number of Days to Update: 37	Next Scheduled EDR Contact: 11/07/2016
	Data Release Frequency: Quarterly

INDIAN UST R8: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 01/26/2016	Source: EPA Region 8
Date Data Arrived at EDR: 02/05/2016	Telephone: 303-312-6137
Date Made Active in Reports: 06/03/2016	Last EDR Contact: 07/27/2016
Number of Days to Update: 119	Next Scheduled EDR Contact: 11/07/2016
	Data Release Frequency: Quarterly

INDIAN UST R1: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 10/20/2015	Source: EPA, Region 1
Date Data Arrived at EDR: 10/29/2015	Telephone: 617-918-1313
Date Made Active in Reports: 01/04/2016	Last EDR Contact: 07/29/2016
Number of Days to Update: 67	Next Scheduled EDR Contact: 11/07/2016
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

INDIAN UST R4: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 02/05/2016	Source: EPA Region 4
Date Data Arrived at EDR: 04/29/2016	Telephone: 404-562-9424
Date Made Active in Reports: 06/03/2016	Last EDR Contact: 07/26/2016
Number of Days to Update: 35	Next Scheduled EDR Contact: 11/07/2016
	Data Release Frequency: Semi-Annually

INDIAN UST R6: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 12/03/2015	Source: EPA Region 6
Date Data Arrived at EDR: 02/04/2016	Telephone: 214-665-7591
Date Made Active in Reports: 06/03/2016	Last EDR Contact: 07/27/2016
Number of Days to Update: 120	Next Scheduled EDR Contact: 11/07/2016
	Data Release Frequency: Semi-Annually

INDIAN UST R7: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 09/23/2014	Source: EPA Region 7
Date Data Arrived at EDR: 11/25/2014	Telephone: 913-551-7003
Date Made Active in Reports: 01/29/2015	Last EDR Contact: 07/27/2016
Number of Days to Update: 65	Next Scheduled EDR Contact: 11/07/2016
	Data Release Frequency: Varies

State and tribal voluntary cleanup sites

INDIAN VCP R1: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 07/27/2015	Source: EPA, Region 1
Date Data Arrived at EDR: 09/29/2015	Telephone: 617-918-1102
Date Made Active in Reports: 02/18/2016	Last EDR Contact: 07/01/2016
Number of Days to Update: 142	Next Scheduled EDR Contact: 10/10/2016
	Data Release Frequency: Varies

INDIAN VCP R7: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008	Source: EPA, Region 7
Date Data Arrived at EDR: 04/22/2008	Telephone: 913-551-7365
Date Made Active in Reports: 05/19/2008	Last EDR Contact: 04/20/2009
Number of Days to Update: 27	Next Scheduled EDR Contact: 07/20/2009
	Data Release Frequency: Varies

VCP: Voluntary Cleanup Program Properties

Contains low threat level properties with either confirmed or unconfirmed releases and the project proponents have request that DTSC oversee investigation and/or cleanup activities and have agreed to provide coverage for DTSC's costs.

Date of Government Version: 05/02/2016	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 05/04/2016	Telephone: 916-323-3400
Date Made Active in Reports: 06/21/2016	Last EDR Contact: 08/02/2016
Number of Days to Update: 48	Next Scheduled EDR Contact: 11/14/2016
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

State and tribal Brownfields sites

BROWNFIELDS: Considered Brownfields Sites Listing

A listing of sites the SWRCB considers to be Brownfields since these are sites have come to them through the MOA Process.

Date of Government Version: 02/29/2016
Date Data Arrived at EDR: 03/07/2016
Date Made Active in Reports: 05/04/2016
Number of Days to Update: 58

Source: State Water Resources Control Board
Telephone: 916-323-7905
Last EDR Contact: 06/15/2016
Next Scheduled EDR Contact: 09/19/2016
Data Release Frequency: Varies

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites

Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 06/21/2016
Date Data Arrived at EDR: 06/22/2016
Date Made Active in Reports: 09/02/2016
Number of Days to Update: 72

Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 09/21/2016
Next Scheduled EDR Contact: 01/02/2017
Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

WMUDS/SWAT: Waste Management Unit Database

Waste Management Unit Database System. WMUDS is used by the State Water Resources Control Board staff and the Regional Water Quality Control Boards for program tracking and inventory of waste management units. WMUDS is composed of the following databases: Facility Information, Scheduled Inspections Information, Waste Management Unit Information, SWAT Program Information, SWAT Report Summary Information, SWAT Report Summary Data, Chapter 15 (formerly Subchapter 15) Information, Chapter 15 Monitoring Parameters, TPCA Program Information, RCRA Program Information, Closure Information, and Interested Parties Information.

Date of Government Version: 04/01/2000
Date Data Arrived at EDR: 04/10/2000
Date Made Active in Reports: 05/10/2000
Number of Days to Update: 30

Source: State Water Resources Control Board
Telephone: 916-227-4448
Last EDR Contact: 08/03/2016
Next Scheduled EDR Contact: 11/21/2016
Data Release Frequency: No Update Planned

SWRCY: Recycler Database

A listing of recycling facilities in California.

Date of Government Version: 06/13/2016
Date Data Arrived at EDR: 06/14/2016
Date Made Active in Reports: 08/09/2016
Number of Days to Update: 56

Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 09/14/2016
Next Scheduled EDR Contact: 12/26/2016
Data Release Frequency: Quarterly

HAULERS: Registered Waste Tire Haulers Listing

A listing of registered waste tire haulers.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 06/16/2016
Date Data Arrived at EDR: 06/16/2016
Date Made Active in Reports: 08/09/2016
Number of Days to Update: 54

Source: Integrated Waste Management Board
Telephone: 916-341-6422
Last EDR Contact: 08/10/2016
Next Scheduled EDR Contact: 11/28/2016
Data Release Frequency: Varies

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands

Location of open dumps on Indian land.

Date of Government Version: 12/31/1998
Date Data Arrived at EDR: 12/03/2007
Date Made Active in Reports: 01/24/2008
Number of Days to Update: 52

Source: Environmental Protection Agency
Telephone: 703-308-8245
Last EDR Contact: 08/05/2016
Next Scheduled EDR Contact: 11/14/2016
Data Release Frequency: Varies

ODI: Open Dump Inventory

An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985
Date Data Arrived at EDR: 08/09/2004
Date Made Active in Reports: 09/17/2004
Number of Days to Update: 39

Source: Environmental Protection Agency
Telephone: 800-424-9346
Last EDR Contact: 06/09/2004
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations

A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009
Date Data Arrived at EDR: 05/07/2009
Date Made Active in Reports: 09/21/2009
Number of Days to Update: 137

Source: EPA, Region 9
Telephone: 415-947-4219
Last EDR Contact: 07/20/2016
Next Scheduled EDR Contact: 10/07/2016
Data Release Frequency: No Update Planned

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL: National Clandestine Laboratory Register

A listing of clandestine drug lab locations that have been removed from the DEAs National Clandestine Laboratory Register.

Date of Government Version: 08/31/2016
Date Data Arrived at EDR: 09/06/2016
Date Made Active in Reports: 09/23/2016
Number of Days to Update: 17

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 08/31/2016
Next Scheduled EDR Contact: 10/10/2016
Data Release Frequency: No Update Planned

HIST CAL-SITES: Calsites Database

The Calsites database contains potential or confirmed hazardous substance release properties. In 1996, California EPA reevaluated and significantly reduced the number of sites in the Calsites database. No longer updated by the state agency. It has been replaced by ENVIROSTOR.

Date of Government Version: 08/08/2005
Date Data Arrived at EDR: 08/03/2006
Date Made Active in Reports: 08/24/2006
Number of Days to Update: 21

Source: Department of Toxic Substance Control
Telephone: 916-323-3400
Last EDR Contact: 02/23/2009
Next Scheduled EDR Contact: 05/25/2009
Data Release Frequency: No Update Planned

SCH: School Property Evaluation Program

This category contains proposed and existing school sites that are being evaluated by DTSC for possible hazardous materials contamination. In some cases, these properties may be listed in the CalSites category depending on the level of threat to public health and safety or the environment they pose.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 05/02/2016
Date Data Arrived at EDR: 05/04/2016
Date Made Active in Reports: 06/21/2016
Number of Days to Update: 48

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 08/02/2016
Next Scheduled EDR Contact: 11/14/2016
Data Release Frequency: Quarterly

CDL: Clandestine Drug Labs

A listing of drug lab locations. Listing of a location in this database does not indicate that any illegal drug lab materials were or were not present there, and does not constitute a determination that the location either requires or does not require additional cleanup work.

Date of Government Version: 12/31/2015
Date Data Arrived at EDR: 05/10/2016
Date Made Active in Reports: 06/17/2016
Number of Days to Update: 38

Source: Department of Toxic Substances Control
Telephone: 916-255-6504
Last EDR Contact: 08/15/2016
Next Scheduled EDR Contact: 10/24/2016
Data Release Frequency: Varies

TOXIC PITS: Toxic Pits Cleanup Act Sites

Toxic PITS Cleanup Act Sites. TOXIC PITS identifies sites suspected of containing hazardous substances where cleanup has not yet been completed.

Date of Government Version: 07/01/1995
Date Data Arrived at EDR: 08/30/1995
Date Made Active in Reports: 09/26/1995
Number of Days to Update: 27

Source: State Water Resources Control Board
Telephone: 916-227-4364
Last EDR Contact: 01/26/2009
Next Scheduled EDR Contact: 04/27/2009
Data Release Frequency: No Update Planned

US CDL: Clandestine Drug Labs

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 08/30/2016
Date Data Arrived at EDR: 09/06/2016
Date Made Active in Reports: 09/23/2016
Number of Days to Update: 17

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 08/31/2016
Next Scheduled EDR Contact: 12/12/2016
Data Release Frequency: Quarterly

Local Lists of Registered Storage Tanks

SWEEPS UST: SWEEPS UST Listing

Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1990's. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

Date of Government Version: 06/01/1994
Date Data Arrived at EDR: 07/07/2005
Date Made Active in Reports: 08/11/2005
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: N/A
Last EDR Contact: 06/03/2005
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

UST MENDOCINO: Mendocino County UST Database

A listing of underground storage tank locations in Mendocino County.

Date of Government Version: 06/07/2016
Date Data Arrived at EDR: 06/09/2016
Date Made Active in Reports: 06/23/2016
Number of Days to Update: 14

Source: Department of Public Health
Telephone: 707-463-4466
Last EDR Contact: 09/12/2016
Next Scheduled EDR Contact: 12/12/2016
Data Release Frequency: Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

HIST UST: Hazardous Substance Storage Container Database

The Hazardous Substance Storage Container Database is a historical listing of UST sites. Refer to local/county source for current data.

Date of Government Version: 10/15/1990
Date Data Arrived at EDR: 01/25/1991
Date Made Active in Reports: 02/12/1991
Number of Days to Update: 18

Source: State Water Resources Control Board
Telephone: 916-341-5851
Last EDR Contact: 07/26/2001
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

CA FID UST: Facility Inventory Database

The Facility Inventory Database (FID) contains a historical listing of active and inactive underground storage tank locations from the State Water Resource Control Board. Refer to local/county source for current data.

Date of Government Version: 10/31/1994
Date Data Arrived at EDR: 09/05/1995
Date Made Active in Reports: 09/29/1995
Number of Days to Update: 24

Source: California Environmental Protection Agency
Telephone: 916-341-5851
Last EDR Contact: 12/28/1998
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

Local Land Records

LIENS: Environmental Liens Listing

A listing of property locations with environmental liens for California where DTSC is a lien holder.

Date of Government Version: 06/02/2016
Date Data Arrived at EDR: 06/07/2016
Date Made Active in Reports: 07/20/2016
Number of Days to Update: 43

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 09/02/2016
Next Scheduled EDR Contact: 12/19/2016
Data Release Frequency: Varies

LIENS 2: CERCLA Lien Information

A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 02/18/2014
Date Data Arrived at EDR: 03/18/2014
Date Made Active in Reports: 04/24/2014
Number of Days to Update: 37

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 07/29/2016
Next Scheduled EDR Contact: 11/07/2016
Data Release Frequency: Varies

DEED: Deed Restriction Listing

Site Mitigation and Brownfields Reuse Program Facility Sites with Deed Restrictions & Hazardous Waste Management Program Facility Sites with Deed / Land Use Restriction. The DTSC Site Mitigation and Brownfields Reuse Program (SMBRP) list includes sites cleaned up under the program's oversight and generally does not include current or former hazardous waste facilities that required a hazardous waste facility permit. The list represents deed restrictions that are active. Some sites have multiple deed restrictions. The DTSC Hazardous Waste Management Program (HWMP) has developed a list of current or former hazardous waste facilities that have a recorded land use restriction at the local county recorder's office. The land use restrictions on this list were required by the DTSC HWMP as a result of the presence of hazardous substances that remain on site after the facility (or part of the facility) has been closed or cleaned up. The types of land use restriction include deed notice, deed restriction, or a land use restriction that binds current and future owners.

Date of Government Version: 06/06/2016
Date Data Arrived at EDR: 06/07/2016
Date Made Active in Reports: 07/20/2016
Number of Days to Update: 43

Source: DTSC and SWRCB
Telephone: 916-323-3400
Last EDR Contact: 09/07/2016
Next Scheduled EDR Contact: 12/19/2016
Data Release Frequency: Semi-Annually

Records of Emergency Release Reports

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 06/27/2016	Source: U.S. Department of Transportation
Date Data Arrived at EDR: 06/28/2016	Telephone: 202-366-4555
Date Made Active in Reports: 09/23/2016	Last EDR Contact: 06/28/2016
Number of Days to Update: 87	Next Scheduled EDR Contact: 10/10/2016
	Data Release Frequency: Annually

CHMIRS: California Hazardous Material Incident Report System

California Hazardous Material Incident Reporting System. CHMIRS contains information on reported hazardous material incidents (accidental releases or spills).

Date of Government Version: 06/03/2016	Source: Office of Emergency Services
Date Data Arrived at EDR: 07/26/2016	Telephone: 916-845-8400
Date Made Active in Reports: 09/23/2016	Last EDR Contact: 07/26/2016
Number of Days to Update: 59	Next Scheduled EDR Contact: 11/07/2016
	Data Release Frequency: Varies

LDS: Land Disposal Sites Listing

The Land Disposal program regulates of waste discharge to land for treatment, storage and disposal in waste management units.

Date of Government Version: 06/13/2016	Source: State Water Quality Control Board
Date Data Arrived at EDR: 06/14/2016	Telephone: 866-480-1028
Date Made Active in Reports: 08/09/2016	Last EDR Contact: 09/13/2016
Number of Days to Update: 56	Next Scheduled EDR Contact: 12/26/2016
	Data Release Frequency: Quarterly

MCS: Military Cleanup Sites Listing

The State Water Resources Control Board and nine Regional Water Quality Control Boards partner with the Department of Defense (DoD) through the Defense and State Memorandum of Agreement (DSMOA) to oversee the investigation and remediation of water quality issues at military facilities.

Date of Government Version: 06/13/2016	Source: State Water Resources Control Board
Date Data Arrived at EDR: 06/14/2016	Telephone: 866-480-1028
Date Made Active in Reports: 08/09/2016	Last EDR Contact: 09/13/2016
Number of Days to Update: 56	Next Scheduled EDR Contact: 12/26/2016
	Data Release Frequency: Quarterly

SPILLS 90: SPILLS90 data from FirstSearch

Spills 90 includes those spill and release records available exclusively from FirstSearch databases. Typically, they may include chemical, oil and/or hazardous substance spills recorded after 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 90.

Date of Government Version: 06/06/2012	Source: FirstSearch
Date Data Arrived at EDR: 01/03/2013	Telephone: N/A
Date Made Active in Reports: 02/22/2013	Last EDR Contact: 01/03/2013
Number of Days to Update: 50	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

Other Ascertainable Records

RCRA NonGen / NLR: RCRA - Non Generators / No Longer Regulated

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 06/21/2016
Date Data Arrived at EDR: 06/30/2016
Date Made Active in Reports: 09/02/2016
Number of Days to Update: 64

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 06/30/2016
Next Scheduled EDR Contact: 10/17/2016
Data Release Frequency: Varies

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 01/31/2015
Date Data Arrived at EDR: 07/08/2015
Date Made Active in Reports: 10/13/2015
Number of Days to Update: 97

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 09/09/2016
Next Scheduled EDR Contact: 12/19/2016
Data Release Frequency: Varies

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 11/10/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 62

Source: USGS
Telephone: 888-275-8747
Last EDR Contact: 07/15/2016
Next Scheduled EDR Contact: 10/24/2016
Data Release Frequency: Semi-Annually

FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 02/06/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 339

Source: U.S. Geological Survey
Telephone: 888-275-8747
Last EDR Contact: 07/15/2016
Next Scheduled EDR Contact: 10/24/2016
Data Release Frequency: N/A

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 03/07/2011
Date Data Arrived at EDR: 03/09/2011
Date Made Active in Reports: 05/02/2011
Number of Days to Update: 54

Source: Environmental Protection Agency
Telephone: 615-532-8599
Last EDR Contact: 08/15/2016
Next Scheduled EDR Contact: 11/28/2016
Data Release Frequency: Varies

US FIN ASSUR: Financial Assurance Information

All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.

Date of Government Version: 05/08/2016
Date Data Arrived at EDR: 05/18/2016
Date Made Active in Reports: 09/02/2016
Number of Days to Update: 107

Source: Environmental Protection Agency
Telephone: 202-566-1917
Last EDR Contact: 08/17/2016
Next Scheduled EDR Contact: 11/28/2016
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

EPA WATCH LIST: EPA WATCH LIST

EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.

Date of Government Version: 08/30/2013	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/21/2014	Telephone: 617-520-3000
Date Made Active in Reports: 06/17/2014	Last EDR Contact: 08/08/2016
Number of Days to Update: 88	Next Scheduled EDR Contact: 11/21/2016
	Data Release Frequency: Quarterly

2020 COR ACTION: 2020 Corrective Action Program List

The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 04/22/2013	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/03/2015	Telephone: 703-308-4044
Date Made Active in Reports: 03/09/2015	Last EDR Contact: 09/06/2016
Number of Days to Update: 6	Next Scheduled EDR Contact: 11/21/2016
	Data Release Frequency: Varies

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2012	Source: EPA
Date Data Arrived at EDR: 01/15/2015	Telephone: 202-260-5521
Date Made Active in Reports: 01/29/2015	Last EDR Contact: 09/23/2016
Number of Days to Update: 14	Next Scheduled EDR Contact: 01/02/2017
	Data Release Frequency: Every 4 Years

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2014	Source: EPA
Date Data Arrived at EDR: 11/24/2015	Telephone: 202-566-0250
Date Made Active in Reports: 04/05/2016	Last EDR Contact: 08/26/2016
Number of Days to Update: 133	Next Scheduled EDR Contact: 12/05/2016
	Data Release Frequency: Annually

SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 12/31/2009	Source: EPA
Date Data Arrived at EDR: 12/10/2010	Telephone: 202-564-4203
Date Made Active in Reports: 02/25/2011	Last EDR Contact: 07/25/2016
Number of Days to Update: 77	Next Scheduled EDR Contact: 11/07/2016
	Data Release Frequency: Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 11/25/2013
Date Data Arrived at EDR: 12/12/2013
Date Made Active in Reports: 02/24/2014
Number of Days to Update: 74

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 09/09/2016
Next Scheduled EDR Contact: 12/19/2016
Data Release Frequency: Annually

RMP: Risk Management Plans

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 05/01/2016
Date Data Arrived at EDR: 05/26/2016
Date Made Active in Reports: 09/02/2016
Number of Days to Update: 99

Source: Environmental Protection Agency
Telephone: 202-564-8600
Last EDR Contact: 07/25/2016
Next Scheduled EDR Contact: 11/07/2016
Data Release Frequency: Varies

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995
Date Data Arrived at EDR: 07/03/1995
Date Made Active in Reports: 08/07/1995
Number of Days to Update: 35

Source: EPA
Telephone: 202-564-4104
Last EDR Contact: 06/02/2008
Next Scheduled EDR Contact: 09/01/2008
Data Release Frequency: No Update Planned

PRP: Potentially Responsible Parties

A listing of verified Potentially Responsible Parties

Date of Government Version: 10/25/2013
Date Data Arrived at EDR: 10/17/2014
Date Made Active in Reports: 10/20/2014
Number of Days to Update: 3

Source: EPA
Telephone: 202-564-6023
Last EDR Contact: 08/12/2016
Next Scheduled EDR Contact: 11/21/2016
Data Release Frequency: Quarterly

PADS: PCB Activity Database System

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 01/20/2016
Date Data Arrived at EDR: 04/28/2016
Date Made Active in Reports: 09/02/2016
Number of Days to Update: 127

Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 07/15/2016
Next Scheduled EDR Contact: 10/24/2016
Data Release Frequency: Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

ICIS: Integrated Compliance Information System

The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 01/23/2015	Source: Environmental Protection Agency
Date Data Arrived at EDR: 02/06/2015	Telephone: 202-564-5088
Date Made Active in Reports: 03/09/2015	Last EDR Contact: 07/07/2016
Number of Days to Update: 31	Next Scheduled EDR Contact: 10/24/2016
	Data Release Frequency: Quarterly

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009	Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Date Data Arrived at EDR: 04/16/2009	Telephone: 202-566-1667
Date Made Active in Reports: 05/11/2009	Last EDR Contact: 08/17/2016
Number of Days to Update: 25	Next Scheduled EDR Contact: 12/05/2016
	Data Release Frequency: Quarterly

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009	Source: EPA
Date Data Arrived at EDR: 04/16/2009	Telephone: 202-566-1667
Date Made Active in Reports: 05/11/2009	Last EDR Contact: 08/17/2016
Number of Days to Update: 25	Next Scheduled EDR Contact: 12/05/2016
	Data Release Frequency: Quarterly

MLTS: Material Licensing Tracking System

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 03/07/2016	Source: Nuclear Regulatory Commission
Date Data Arrived at EDR: 03/18/2016	Telephone: 301-415-7169
Date Made Active in Reports: 04/15/2016	Last EDR Contact: 09/05/2016
Number of Days to Update: 28	Next Scheduled EDR Contact: 11/21/2016
	Data Release Frequency: Quarterly

COAL ASH DOE: Steam-Electric Plant Operation Data

A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2005	Source: Department of Energy
Date Data Arrived at EDR: 08/07/2009	Telephone: 202-586-8719
Date Made Active in Reports: 10/22/2009	Last EDR Contact: 09/09/2016
Number of Days to Update: 76	Next Scheduled EDR Contact: 12/19/2016
	Data Release Frequency: Varies

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List

A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 07/01/2014	Source: Environmental Protection Agency
Date Data Arrived at EDR: 09/10/2014	Telephone: N/A
Date Made Active in Reports: 10/20/2014	Last EDR Contact: 09/06/2016
Number of Days to Update: 40	Next Scheduled EDR Contact: 12/19/2016
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

PCB TRANSFORMER: PCB Transformer Registration Database

The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 02/01/2011	Source: Environmental Protection Agency
Date Data Arrived at EDR: 10/19/2011	Telephone: 202-566-0517
Date Made Active in Reports: 01/10/2012	Last EDR Contact: 07/29/2016
Number of Days to Update: 83	Next Scheduled EDR Contact: 11/07/2016
	Data Release Frequency: Varies

RADINFO: Radiation Information Database

The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 07/07/2015	Source: Environmental Protection Agency
Date Data Arrived at EDR: 07/09/2015	Telephone: 202-343-9775
Date Made Active in Reports: 09/16/2015	Last EDR Contact: 07/07/2016
Number of Days to Update: 69	Next Scheduled EDR Contact: 10/17/2016
	Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing

A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/01/2007	Telephone: 202-564-2501
Date Made Active in Reports: 04/10/2007	Last EDR Contact: 12/17/2007
Number of Days to Update: 40	Next Scheduled EDR Contact: 03/17/2008
	Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing

A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/01/2007	Telephone: 202-564-2501
Date Made Active in Reports: 04/10/2007	Last EDR Contact: 12/17/2008
Number of Days to Update: 40	Next Scheduled EDR Contact: 03/17/2008
	Data Release Frequency: No Update Planned

DOT OPS: Incident and Accident Data

Department of Transportation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 07/31/2012	Source: Department of Transportation, Office of Pipeline Safety
Date Data Arrived at EDR: 08/07/2012	Telephone: 202-366-4595
Date Made Active in Reports: 09/18/2012	Last EDR Contact: 08/02/2016
Number of Days to Update: 42	Next Scheduled EDR Contact: 11/14/2016
	Data Release Frequency: Varies

CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 03/31/2016
Date Data Arrived at EDR: 08/01/2016
Date Made Active in Reports: 09/23/2016
Number of Days to Update: 53

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 07/15/2016
Next Scheduled EDR Contact: 10/10/2016
Data Release Frequency: Varies

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2013
Date Data Arrived at EDR: 02/24/2015
Date Made Active in Reports: 09/30/2015
Number of Days to Update: 218

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 08/26/2016
Next Scheduled EDR Contact: 12/05/2016
Data Release Frequency: Biennially

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 12/08/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 34

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 07/15/2016
Next Scheduled EDR Contact: 10/24/2016
Data Release Frequency: Semi-Annually

FUSRAP: Formerly Utilized Sites Remedial Action Program

DOE established the Formerly Utilized Sites Remedial Action Program (FUSRAP) in 1974 to remediate sites where radioactive contamination remained from Manhattan Project and early U.S. Atomic Energy Commission (AEC) operations.

Date of Government Version: 07/21/2016
Date Data Arrived at EDR: 07/26/2016
Date Made Active in Reports: 09/23/2016
Number of Days to Update: 59

Source: Department of Energy
Telephone: 202-586-3559
Last EDR Contact: 07/26/2016
Next Scheduled EDR Contact: 11/21/2016
Data Release Frequency: Varies

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 09/14/2010
Date Data Arrived at EDR: 10/07/2011
Date Made Active in Reports: 03/01/2012
Number of Days to Update: 146

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 09/09/2016
Next Scheduled EDR Contact: 12/05/2016
Data Release Frequency: Varies

LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 03/07/2016
Date Data Arrived at EDR: 04/07/2016
Date Made Active in Reports: 09/02/2016
Number of Days to Update: 148

Source: Environmental Protection Agency
Telephone: 703-603-8787
Last EDR Contact: 07/08/2016
Next Scheduled EDR Contact: 10/17/2016
Data Release Frequency: Varies

LEAD SMELTER 2: Lead Smelter Sites

A list of several hundred sites in the U.S. where secondary lead smelting was done from 1931 and 1964. These sites may pose a threat to public health through ingestion or inhalation of contaminated soil or dust

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 04/05/2001
Date Data Arrived at EDR: 10/27/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 36

Source: American Journal of Public Health
Telephone: 703-305-6451
Last EDR Contact: 12/02/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)

The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.

Date of Government Version: 10/20/2015
Date Data Arrived at EDR: 10/27/2015
Date Made Active in Reports: 01/04/2016
Number of Days to Update: 69

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 06/22/2016
Next Scheduled EDR Contact: 10/10/2016
Data Release Frequency: Annually

US AIRS MINOR: Air Facility System Data

A listing of minor source facilities.

Date of Government Version: 10/20/2015
Date Data Arrived at EDR: 10/27/2015
Date Made Active in Reports: 01/04/2016
Number of Days to Update: 69

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 06/22/2016
Next Scheduled EDR Contact: 10/10/2016
Data Release Frequency: Annually

US MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 08/05/2016
Date Data Arrived at EDR: 09/01/2016
Date Made Active in Reports: 09/23/2016
Number of Days to Update: 22

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 09/01/2016
Next Scheduled EDR Contact: 12/12/2016
Data Release Frequency: Semi-Annually

US MINES 2: Ferrous and Nonferrous Metal Mines Database Listing

This map layer includes ferrous (ferrous metal mines are facilities that extract ferrous metals, such as iron ore or molybdenum) and nonferrous (Nonferrous metal mines are facilities that extract nonferrous metals, such as gold, silver, copper, zinc, and lead) metal mines in the United States.

Date of Government Version: 12/05/2005
Date Data Arrived at EDR: 02/29/2008
Date Made Active in Reports: 04/18/2008
Number of Days to Update: 49

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 09/02/2016
Next Scheduled EDR Contact: 12/12/2016
Data Release Frequency: Varies

US MINES 3: Active Mines & Mineral Plants Database Listing

Active Mines and Mineral Processing Plant operations for commodities monitored by the Minerals Information Team of the USGS.

Date of Government Version: 04/14/2011
Date Data Arrived at EDR: 06/08/2011
Date Made Active in Reports: 09/13/2011
Number of Days to Update: 97

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 09/02/2016
Next Scheduled EDR Contact: 12/12/2016
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 07/20/2015	Source: EPA
Date Data Arrived at EDR: 09/09/2015	Telephone: (415) 947-8000
Date Made Active in Reports: 11/03/2015	Last EDR Contact: 09/07/2016
Number of Days to Update: 55	Next Scheduled EDR Contact: 12/19/2016
	Data Release Frequency: Quarterly

UXO: Unexploded Ordnance Sites

A listing of unexploded ordnance site locations

Date of Government Version: 10/25/2015	Source: Department of Defense
Date Data Arrived at EDR: 01/29/2016	Telephone: 571-373-0407
Date Made Active in Reports: 04/05/2016	Last EDR Contact: 09/19/2016
Number of Days to Update: 67	Next Scheduled EDR Contact: 01/02/2017
	Data Release Frequency: Varies

DOCKET HWC: Hazardous Waste Compliance Docket Listing

A complete list of the Federal Agency Hazardous Waste Compliance Docket Facilities.

Date of Government Version: 06/02/2016	Source: Environmental Protection Agency
Date Data Arrived at EDR: 06/03/2016	Telephone: 202-564-0527
Date Made Active in Reports: 09/02/2016	Last EDR Contact: 08/24/2016
Number of Days to Update: 91	Next Scheduled EDR Contact: 12/12/2016
	Data Release Frequency: Varies

CA BOND EXP. PLAN: Bond Expenditure Plan

Department of Health Services developed a site-specific expenditure plan as the basis for an appropriation of Hazardous Substance Cleanup Bond Act funds. It is not updated.

Date of Government Version: 01/01/1989	Source: Department of Health Services
Date Data Arrived at EDR: 07/27/1994	Telephone: 916-255-2118
Date Made Active in Reports: 08/02/1994	Last EDR Contact: 05/31/1994
Number of Days to Update: 6	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

CORTESE: "Cortese" Hazardous Waste & Substances Sites List

The sites for the list are designated by the State Water Resource Control Board (LUST), the Integrated Waste Board (SWF/LS), and the Department of Toxic Substances Control (Cal-Sites).

Date of Government Version: 06/27/2016	Source: CAL EPA/Office of Emergency Information
Date Data Arrived at EDR: 06/28/2016	Telephone: 916-323-3400
Date Made Active in Reports: 08/18/2016	Last EDR Contact: 06/28/2016
Number of Days to Update: 51	Next Scheduled EDR Contact: 10/10/2016
	Data Release Frequency: Quarterly

DRYCLEANERS: Cleaner Facilities

A list of drycleaner related facilities that have EPA ID numbers. These are facilities with certain SIC codes: power laundries, family and commercial; garment pressing and cleaner's agents; linen supply; coin-operated laundries and cleaning; drycleaning plants, except rugs; carpet and upholster cleaning; industrial launderers; laundry and garment services.

Date of Government Version: 06/02/2016	Source: Department of Toxic Substance Control
Date Data Arrived at EDR: 07/12/2016	Telephone: 916-327-4498
Date Made Active in Reports: 08/18/2016	Last EDR Contact: 09/02/2016
Number of Days to Update: 37	Next Scheduled EDR Contact: 12/19/2016
	Data Release Frequency: Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

EMI: Emissions Inventory Data

Toxics and criteria pollutant emissions data collected by the ARB and local air pollution agencies.

Date of Government Version: 12/31/2015
Date Data Arrived at EDR: 06/22/2016
Date Made Active in Reports: 08/09/2016
Number of Days to Update: 48

Source: California Air Resources Board
Telephone: 916-322-2990
Last EDR Contact: 09/23/2016
Next Scheduled EDR Contact: 01/02/2017
Data Release Frequency: Varies

ENF: Enforcement Action Listing

A listing of Water Board Enforcement Actions. Formal is everything except Oral/Verbal Communication, Notice of Violation, Expedited Payment Letter, and Staff Enforcement Letter.

Date of Government Version: 05/25/2016
Date Data Arrived at EDR: 05/27/2016
Date Made Active in Reports: 07/20/2016
Number of Days to Update: 54

Source: State Water Resources Control Board
Telephone: 916-445-9379
Last EDR Contact: 08/22/2016
Next Scheduled EDR Contact: 10/07/2016
Data Release Frequency: Varies

Financial Assurance 1: Financial Assurance Information Listing

Financial Assurance information

Date of Government Version: 04/25/2016
Date Data Arrived at EDR: 04/29/2016
Date Made Active in Reports: 06/21/2016
Number of Days to Update: 53

Source: Department of Toxic Substances Control
Telephone: 916-255-3628
Last EDR Contact: 07/20/2016
Next Scheduled EDR Contact: 10/07/2016
Data Release Frequency: Varies

Financial Assurance 2: Financial Assurance Information Listing

A listing of financial assurance information for solid waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 05/25/2016
Date Data Arrived at EDR: 06/01/2016
Date Made Active in Reports: 07/20/2016
Number of Days to Update: 49

Source: California Integrated Waste Management Board
Telephone: 916-341-6066
Last EDR Contact: 08/10/2016
Next Scheduled EDR Contact: 11/28/2016
Data Release Frequency: Varies

HAZNET: Facility and Manifest Data

Facility and Manifest Data. The data is extracted from the copies of hazardous waste manifests received each year by the DTSC. The annual volume of manifests is typically 700,000 - 1,000,000 annually, representing approximately 350,000 - 500,000 shipments. Data are from the manifests submitted without correction, and therefore many contain some invalid values for data elements such as generator ID, TSD ID, waste category, and disposal method. This database begins with calendar year 1993.

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 10/14/2015
Date Made Active in Reports: 12/11/2015
Number of Days to Update: 58

Source: California Environmental Protection Agency
Telephone: 916-255-1136
Last EDR Contact: 07/15/2016
Next Scheduled EDR Contact: 10/24/2016
Data Release Frequency: Annually

HIST CORTESE: Hazardous Waste & Substance Site List

The sites for the list are designated by the State Water Resource Control Board [LUST], the Integrated Waste Board [SWF/LS], and the Department of Toxic Substances Control [CALSITES]. This listing is no longer updated by the state agency.

Date of Government Version: 04/01/2001
Date Data Arrived at EDR: 01/22/2009
Date Made Active in Reports: 04/08/2009
Number of Days to Update: 76

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 01/22/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

HWP: EnviroStor Permitted Facilities Listing

Detailed information on permitted hazardous waste facilities and corrective action ("cleanups") tracked in EnviroStor.

Date of Government Version: 05/23/2016
Date Data Arrived at EDR: 05/25/2016
Date Made Active in Reports: 07/20/2016
Number of Days to Update: 56

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 08/23/2016
Next Scheduled EDR Contact: 12/05/2016
Data Release Frequency: Quarterly

HWT: Registered Hazardous Waste Transporter Database

A listing of hazardous waste transporters. In California, unless specifically exempted, it is unlawful for any person to transport hazardous wastes unless the person holds a valid registration issued by DTSC. A hazardous waste transporter registration is valid for one year and is assigned a unique registration number.

Date of Government Version: 07/11/2016
Date Data Arrived at EDR: 07/13/2016
Date Made Active in Reports: 08/18/2016
Number of Days to Update: 36

Source: Department of Toxic Substances Control
Telephone: 916-440-7145
Last EDR Contact: 07/13/2016
Next Scheduled EDR Contact: 10/24/2016
Data Release Frequency: Quarterly

MINES: Mines Site Location Listing

A listing of mine site locations from the Office of Mine Reclamation.

Date of Government Version: 06/13/2016
Date Data Arrived at EDR: 06/14/2016
Date Made Active in Reports: 08/09/2016
Number of Days to Update: 56

Source: Department of Conservation
Telephone: 916-322-1080
Last EDR Contact: 09/14/2016
Next Scheduled EDR Contact: 12/26/2016
Data Release Frequency: Varies

MWMP: Medical Waste Management Program Listing

The Medical Waste Management Program (MWMP) ensures the proper handling and disposal of medical waste by permitting and inspecting medical waste Offsite Treatment Facilities (PDF) and Transfer Stations (PDF) throughout the state. MWMP also oversees all Medical Waste Transporters.

Date of Government Version: 05/25/2016
Date Data Arrived at EDR: 06/07/2016
Date Made Active in Reports: 07/20/2016
Number of Days to Update: 43

Source: Department of Public Health
Telephone: 916-558-1784
Last EDR Contact: 09/07/2016
Next Scheduled EDR Contact: 12/19/2016
Data Release Frequency: Varies

NPDES: NPDES Permits Listing

A listing of NPDES permits, including stormwater.

Date of Government Version: 05/16/2016
Date Data Arrived at EDR: 05/18/2016
Date Made Active in Reports: 06/23/2016
Number of Days to Update: 36

Source: State Water Resources Control Board
Telephone: 916-445-9379
Last EDR Contact: 08/16/2016
Next Scheduled EDR Contact: 11/28/2016
Data Release Frequency: Quarterly

PEST LIC: Pesticide Regulation Licenses Listing

A listing of licenses and certificates issued by the Department of Pesticide Regulation. The DPR issues licenses and/or certificates to: Persons and businesses that apply or sell pesticides; Pest control dealers and brokers; Persons who advise on agricultural pesticide applications.

Date of Government Version: 06/06/2016
Date Data Arrived at EDR: 06/07/2016
Date Made Active in Reports: 07/20/2016
Number of Days to Update: 43

Source: Department of Pesticide Regulation
Telephone: 916-445-4038
Last EDR Contact: 09/07/2016
Next Scheduled EDR Contact: 12/19/2016
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

PROC: Certified Processors Database

A listing of certified processors.

Date of Government Version: 06/13/2016
Date Data Arrived at EDR: 06/14/2016
Date Made Active in Reports: 08/09/2016
Number of Days to Update: 56

Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 09/14/2016
Next Scheduled EDR Contact: 12/26/2016
Data Release Frequency: Quarterly

NOTIFY 65: Proposition 65 Records

Listings of all Proposition 65 incidents reported to counties by the State Water Resources Control Board and the Regional Water Quality Control Board. This database is no longer updated by the reporting agency.

Date of Government Version: 09/10/2015
Date Data Arrived at EDR: 01/05/2016
Date Made Active in Reports: 02/12/2016
Number of Days to Update: 38

Source: State Water Resources Control Board
Telephone: 916-445-3846
Last EDR Contact: 09/19/2016
Next Scheduled EDR Contact: 01/02/2017
Data Release Frequency: No Update Planned

UIC: UIC Listing

A listing of wells identified as underground injection wells, in the California Oil and Gas Wells database.

Date of Government Version: 02/12/2016
Date Data Arrived at EDR: 03/16/2016
Date Made Active in Reports: 06/13/2016
Number of Days to Update: 89

Source: Department of Conservation
Telephone: 916-445-2408
Last EDR Contact: 09/14/2016
Next Scheduled EDR Contact: 12/26/2016
Data Release Frequency: Varies

WASTEWATER PITS: Oil Wastewater Pits Listing

Water officials discovered that oil producers have been dumping chemical-laden wastewater into hundreds of unlined pits that are operating without proper permits. Inspections completed by the Central Valley Regional Water Quality Control Board revealed the existence of previously unidentified waste sites. The water board's review found that more than one-third of the region's active disposal pits are operating without permission.

Date of Government Version: 04/15/2015
Date Data Arrived at EDR: 04/17/2015
Date Made Active in Reports: 06/23/2015
Number of Days to Update: 67

Source: RWQCB, Central Valley Region
Telephone: 559-445-5577
Last EDR Contact: 07/15/2016
Next Scheduled EDR Contact: 10/24/2016
Data Release Frequency: Varies

WDS: Waste Discharge System

Sites which have been issued waste discharge requirements.

Date of Government Version: 06/19/2007
Date Data Arrived at EDR: 06/20/2007
Date Made Active in Reports: 06/29/2007
Number of Days to Update: 9

Source: State Water Resources Control Board
Telephone: 916-341-5227
Last EDR Contact: 08/17/2016
Next Scheduled EDR Contact: 12/05/2016
Data Release Frequency: Quarterly

WIP: Well Investigation Program Case List

Well Investigation Program case in the San Gabriel and San Fernando Valley area.

Date of Government Version: 07/03/2009
Date Data Arrived at EDR: 07/21/2009
Date Made Active in Reports: 08/03/2009
Number of Days to Update: 13

Source: Los Angeles Water Quality Control Board
Telephone: 213-576-6726
Last EDR Contact: 09/23/2016
Next Scheduled EDR Contact: 01/09/2017
Data Release Frequency: Varies

ICE: ICE

Contains data pertaining to the Permitted Facilities with Inspections / Enforcements sites tracked in Envirostor.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 05/23/2016
Date Data Arrived at EDR: 05/25/2016
Date Made Active in Reports: 07/20/2016
Number of Days to Update: 56

Source: Department of Toxic Substances Control
Telephone: 877-786-9427
Last EDR Contact: 08/23/2016
Next Scheduled EDR Contact: 12/05/2016
Data Release Frequency: Quarterly

ECHO: Enforcement & Compliance History Information

ECHO provides integrated compliance and enforcement information for about 800,000 regulated facilities nationwide.

Date of Government Version: 09/20/2015
Date Data Arrived at EDR: 09/23/2015
Date Made Active in Reports: 01/04/2016
Number of Days to Update: 103

Source: Environmental Protection Agency
Telephone: 202-564-2280
Last EDR Contact: 09/20/2016
Next Scheduled EDR Contact: 01/02/2017
Data Release Frequency: Quarterly

FUELS PROGRAM: EPA Fuels Program Registered Listing

This listing includes facilities that are registered under the Part 80 (Code of Federal Regulations) EPA Fuels Programs. All companies now are required to submit new and updated registrations.

Date of Government Version: 05/24/2016
Date Data Arrived at EDR: 05/25/2016
Date Made Active in Reports: 07/13/2016
Number of Days to Update: 49

Source: EPA
Telephone: 800-385-6164
Last EDR Contact: 08/23/2016
Next Scheduled EDR Contact: 12/05/2016
Data Release Frequency: Quarterly

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP: EDR Proprietary Manufactured Gas Plants

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

EDR Hist Auto: EDR Exclusive Historic Gas Stations

EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

EDR Hist Cleaner: EDR Exclusive Historic Dry Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA LF: Recovered Government Archive Solid Waste Facilities List

The EDR Recovered Government Archive Landfill database provides a list of landfills derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Resources Recycling and Recovery in California.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 01/13/2014
Number of Days to Update: 196

Source: Department of Resources Recycling and Recovery
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

RGA LUST: Recovered Government Archive Leaking Underground Storage Tank

The EDR Recovered Government Archive Leaking Underground Storage Tank database provides a list of LUST incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the State Water Resources Control Board in California.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 12/30/2013
Number of Days to Update: 182

Source: State Water Resources Control Board
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

COUNTY RECORDS

ALAMEDA COUNTY:

Contaminated Sites

A listing of contaminated sites overseen by the Toxic Release Program (oil and groundwater contamination from chemical releases and spills) and the Leaking Underground Storage Tank Program (soil and ground water contamination from leaking petroleum USTs).

Date of Government Version: 07/07/2016
Date Data Arrived at EDR: 07/12/2016
Date Made Active in Reports: 08/18/2016
Number of Days to Update: 37

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 07/07/2016
Next Scheduled EDR Contact: 10/24/2016
Data Release Frequency: Semi-Annually

Underground Tanks

Underground storage tank sites located in Alameda county.

Date of Government Version: 07/07/2016
Date Data Arrived at EDR: 07/12/2016
Date Made Active in Reports: 08/08/2016
Number of Days to Update: 27

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 07/07/2016
Next Scheduled EDR Contact: 10/24/2016
Data Release Frequency: Semi-Annually

AMADOR COUNTY:

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

CUPA Facility List Cupa Facility List

Date of Government Version: 06/06/2016
Date Data Arrived at EDR: 06/09/2016
Date Made Active in Reports: 06/21/2016
Number of Days to Update: 12

Source: Amador County Environmental Health
Telephone: 209-223-6439
Last EDR Contact: 09/02/2016
Next Scheduled EDR Contact: 12/19/2016
Data Release Frequency: Varies

BUTTE COUNTY:

CUPA Facility Listing Cupa facility list.

Date of Government Version: 06/02/2016
Date Data Arrived at EDR: 06/03/2016
Date Made Active in Reports: 06/21/2016
Number of Days to Update: 18

Source: Public Health Department
Telephone: 530-538-7149
Last EDR Contact: 07/07/2016
Next Scheduled EDR Contact: 10/24/2016
Data Release Frequency: No Update Planned

CALVERAS COUNTY:

CUPA Facility Listing Cupa Facility Listing

Date of Government Version: 07/20/2016
Date Data Arrived at EDR: 07/25/2016
Date Made Active in Reports: 09/23/2016
Number of Days to Update: 60

Source: Calveras County Environmental Health
Telephone: 209-754-6399
Last EDR Contact: 06/27/2016
Next Scheduled EDR Contact: 10/10/2016
Data Release Frequency: Quarterly

COLUSA COUNTY:

CUPA Facility List Cupa facility list.

Date of Government Version: 05/25/2016
Date Data Arrived at EDR: 05/26/2016
Date Made Active in Reports: 06/17/2016
Number of Days to Update: 22

Source: Health & Human Services
Telephone: 530-458-0396
Last EDR Contact: 09/06/2016
Next Scheduled EDR Contact: 11/21/2016
Data Release Frequency: Varies

CONTRA COSTA COUNTY:

Site List

List includes sites from the underground tank, hazardous waste generator and business plan/2185 programs.

Date of Government Version: 05/24/2016
Date Data Arrived at EDR: 05/26/2016
Date Made Active in Reports: 07/20/2016
Number of Days to Update: 55

Source: Contra Costa Health Services Department
Telephone: 925-646-2286
Last EDR Contact: 08/01/2016
Next Scheduled EDR Contact: 11/14/2016
Data Release Frequency: Semi-Annually

DEL NORTE COUNTY:

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

CUPA Facility List

Cupa Facility list

Date of Government Version: 04/08/2016
Date Data Arrived at EDR: 05/03/2016
Date Made Active in Reports: 06/22/2016
Number of Days to Update: 50

Source: Del Norte County Environmental Health Division
Telephone: 707-465-0426
Last EDR Contact: 07/27/2016
Next Scheduled EDR Contact: 11/14/2016
Data Release Frequency: Varies

EL DORADO COUNTY:

CUPA Facility List

CUPA facility list.

Date of Government Version: 05/24/2016
Date Data Arrived at EDR: 05/26/2016
Date Made Active in Reports: 08/09/2016
Number of Days to Update: 75

Source: El Dorado County Environmental Management Department
Telephone: 530-621-6623
Last EDR Contact: 07/27/2016
Next Scheduled EDR Contact: 11/14/2016
Data Release Frequency: Varies

FRESNO COUNTY:

CUPA Resources List

Certified Unified Program Agency. CUPA's are responsible for implementing a unified hazardous materials and hazardous waste management regulatory program. The agency provides oversight of businesses that deal with hazardous materials, operate underground storage tanks or aboveground storage tanks.

Date of Government Version: 07/13/2016
Date Data Arrived at EDR: 07/19/2016
Date Made Active in Reports: 08/09/2016
Number of Days to Update: 21

Source: Dept. of Community Health
Telephone: 559-445-3271
Last EDR Contact: 07/13/2016
Next Scheduled EDR Contact: 10/17/2016
Data Release Frequency: Semi-Annually

HUMBOLDT COUNTY:

CUPA Facility List

CUPA facility list.

Date of Government Version: 07/06/2016
Date Data Arrived at EDR: 07/08/2016
Date Made Active in Reports: 08/18/2016
Number of Days to Update: 41

Source: Humboldt County Environmental Health
Telephone: N/A
Last EDR Contact: 08/22/2016
Next Scheduled EDR Contact: 12/05/2016
Data Release Frequency: Varies

IMPERIAL COUNTY:

CUPA Facility List

Cupa facility list.

Date of Government Version: 07/25/2016
Date Data Arrived at EDR: 07/26/2016
Date Made Active in Reports: 09/23/2016
Number of Days to Update: 59

Source: San Diego Border Field Office
Telephone: 760-339-2777
Last EDR Contact: 07/20/2016
Next Scheduled EDR Contact: 10/07/2016
Data Release Frequency: Varies

INYO COUNTY:

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

CUPA Facility List

Cupa facility list.

Date of Government Version: 09/10/2013
Date Data Arrived at EDR: 09/11/2013
Date Made Active in Reports: 10/14/2013
Number of Days to Update: 33

Source: Inyo County Environmental Health Services
Telephone: 760-878-0238
Last EDR Contact: 08/17/2016
Next Scheduled EDR Contact: 12/05/2016
Data Release Frequency: Varies

KERN COUNTY:

Underground Storage Tank Sites & Tank Listing Kern County Sites and Tanks Listing.

Date of Government Version: 05/16/2016
Date Data Arrived at EDR: 05/20/2016
Date Made Active in Reports: 08/08/2016
Number of Days to Update: 80

Source: Kern County Environment Health Services Department
Telephone: 661-862-8700
Last EDR Contact: 08/03/2016
Next Scheduled EDR Contact: 11/21/2016
Data Release Frequency: Quarterly

KINGS COUNTY:

CUPA Facility List

A listing of sites included in the county's Certified Unified Program Agency database. California's Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

Date of Government Version: 05/25/2016
Date Data Arrived at EDR: 05/27/2016
Date Made Active in Reports: 06/22/2016
Number of Days to Update: 26

Source: Kings County Department of Public Health
Telephone: 559-584-1411
Last EDR Contact: 09/19/2016
Next Scheduled EDR Contact: 12/05/2016
Data Release Frequency: Varies

LAKE COUNTY:

CUPA Facility List

Cupa facility list

Date of Government Version: 04/26/2016
Date Data Arrived at EDR: 04/27/2016
Date Made Active in Reports: 06/17/2016
Number of Days to Update: 51

Source: Lake County Environmental Health
Telephone: 707-263-1164
Last EDR Contact: 08/19/2016
Next Scheduled EDR Contact: 10/31/2016
Data Release Frequency: Varies

LOS ANGELES COUNTY:

San Gabriel Valley Areas of Concern

San Gabriel Valley areas where VOC contamination is at or above the MCL as designated by region 9 EPA office.

Date of Government Version: 03/30/2009
Date Data Arrived at EDR: 03/31/2009
Date Made Active in Reports: 10/23/2009
Number of Days to Update: 206

Source: EPA Region 9
Telephone: 415-972-3178
Last EDR Contact: 09/19/2016
Next Scheduled EDR Contact: 01/02/2017
Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

HMS: Street Number List

Industrial Waste and Underground Storage Tank Sites.

Date of Government Version: 07/05/2016
Date Data Arrived at EDR: 07/12/2016
Date Made Active in Reports: 08/18/2016
Number of Days to Update: 37

Source: Department of Public Works
Telephone: 626-458-3517
Last EDR Contact: 07/07/2016
Next Scheduled EDR Contact: 10/24/2016
Data Release Frequency: Semi-Annually

List of Solid Waste Facilities

Solid Waste Facilities in Los Angeles County.

Date of Government Version: 04/18/2016
Date Data Arrived at EDR: 04/20/2016
Date Made Active in Reports: 06/01/2016
Number of Days to Update: 42

Source: La County Department of Public Works
Telephone: 818-458-5185
Last EDR Contact: 07/19/2016
Next Scheduled EDR Contact: 10/31/2016
Data Release Frequency: Varies

City of Los Angeles Landfills

Landfills owned and maintained by the City of Los Angeles.

Date of Government Version: 01/01/2016
Date Data Arrived at EDR: 01/26/2016
Date Made Active in Reports: 03/22/2016
Number of Days to Update: 56

Source: Engineering & Construction Division
Telephone: 213-473-7869
Last EDR Contact: 07/18/2016
Next Scheduled EDR Contact: 10/31/2016
Data Release Frequency: Varies

Site Mitigation List

Industrial sites that have had some sort of spill or complaint.

Date of Government Version: 03/29/2016
Date Data Arrived at EDR: 04/06/2016
Date Made Active in Reports: 06/13/2016
Number of Days to Update: 68

Source: Community Health Services
Telephone: 323-890-7806
Last EDR Contact: 07/13/2016
Next Scheduled EDR Contact: 10/31/2016
Data Release Frequency: Annually

City of El Segundo Underground Storage Tank

Underground storage tank sites located in El Segundo city.

Date of Government Version: 03/30/2015
Date Data Arrived at EDR: 04/02/2015
Date Made Active in Reports: 04/13/2015
Number of Days to Update: 11

Source: City of El Segundo Fire Department
Telephone: 310-524-2236
Last EDR Contact: 07/13/2016
Next Scheduled EDR Contact: 10/31/2016
Data Release Frequency: Semi-Annually

City of Long Beach Underground Storage Tank

Underground storage tank sites located in the city of Long Beach.

Date of Government Version: 11/04/2015
Date Data Arrived at EDR: 11/13/2015
Date Made Active in Reports: 12/17/2015
Number of Days to Update: 34

Source: City of Long Beach Fire Department
Telephone: 562-570-2563
Last EDR Contact: 07/25/2016
Next Scheduled EDR Contact: 11/07/2016
Data Release Frequency: Annually

City of Torrance Underground Storage Tank

Underground storage tank sites located in the city of Torrance.

Date of Government Version: 06/23/2016
Date Data Arrived at EDR: 07/12/2016
Date Made Active in Reports: 08/09/2016
Number of Days to Update: 28

Source: City of Torrance Fire Department
Telephone: 310-618-2973
Last EDR Contact: 07/07/2016
Next Scheduled EDR Contact: 10/24/2016
Data Release Frequency: Semi-Annually

MADERA COUNTY:

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

CUPA Facility List

A listing of sites included in the county's Certified Unified Program Agency database. California's Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

Date of Government Version: 08/18/2016
Date Data Arrived at EDR: 08/22/2016
Date Made Active in Reports: 09/23/2016
Number of Days to Update: 32

Source: Madera County Environmental Health
Telephone: 559-675-7823
Last EDR Contact: 08/17/2016
Next Scheduled EDR Contact: 12/05/2016
Data Release Frequency: Varies

MARIN COUNTY:

Underground Storage Tank Sites

Currently permitted USTs in Marin County.

Date of Government Version: 04/07/2016
Date Data Arrived at EDR: 04/26/2016
Date Made Active in Reports: 06/01/2016
Number of Days to Update: 36

Source: Public Works Department Waste Management
Telephone: 415-499-6647
Last EDR Contact: 06/30/2016
Next Scheduled EDR Contact: 10/17/2016
Data Release Frequency: Semi-Annually

MERCED COUNTY:

CUPA Facility List

CUPA facility list.

Date of Government Version: 08/17/2016
Date Data Arrived at EDR: 08/22/2016
Date Made Active in Reports: 09/23/2016
Number of Days to Update: 32

Source: Merced County Environmental Health
Telephone: 209-381-1094
Last EDR Contact: 08/17/2016
Next Scheduled EDR Contact: 12/05/2016
Data Release Frequency: Varies

MONO COUNTY:

CUPA Facility List

CUPA Facility List

Date of Government Version: 05/25/2016
Date Data Arrived at EDR: 06/01/2016
Date Made Active in Reports: 06/22/2016
Number of Days to Update: 21

Source: Mono County Health Department
Telephone: 760-932-5580
Last EDR Contact: 08/24/2016
Next Scheduled EDR Contact: 12/12/2016
Data Release Frequency: Varies

MONTEREY COUNTY:

CUPA Facility Listing

CUPA Program listing from the Environmental Health Division.

Date of Government Version: 06/24/2016
Date Data Arrived at EDR: 06/27/2016
Date Made Active in Reports: 08/09/2016
Number of Days to Update: 43

Source: Monterey County Health Department
Telephone: 831-796-1297
Last EDR Contact: 08/22/2016
Next Scheduled EDR Contact: 12/05/2016
Data Release Frequency: Varies

NAPA COUNTY:

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Sites With Reported Contamination

A listing of leaking underground storage tank sites located in Napa county.

Date of Government Version: 12/05/2011
Date Data Arrived at EDR: 12/06/2011
Date Made Active in Reports: 02/07/2012
Number of Days to Update: 63

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 08/24/2016
Next Scheduled EDR Contact: 12/12/2016
Data Release Frequency: No Update Planned

Closed and Operating Underground Storage Tank Sites

Underground storage tank sites located in Napa county.

Date of Government Version: 01/15/2008
Date Data Arrived at EDR: 01/16/2008
Date Made Active in Reports: 02/08/2008
Number of Days to Update: 23

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 08/24/2016
Next Scheduled EDR Contact: 12/12/2016
Data Release Frequency: No Update Planned

NEVADA COUNTY:

CUPA Facility List

CUPA facility list.

Date of Government Version: 07/25/2016
Date Data Arrived at EDR: 08/01/2016
Date Made Active in Reports: 09/23/2016
Number of Days to Update: 53

Source: Community Development Agency
Telephone: 530-265-1467
Last EDR Contact: 07/27/2016
Next Scheduled EDR Contact: 11/14/2016
Data Release Frequency: Varies

ORANGE COUNTY:

List of Industrial Site Cleanups

Petroleum and non-petroleum spills.

Date of Government Version: 05/01/2016
Date Data Arrived at EDR: 05/17/2016
Date Made Active in Reports: 06/21/2016
Number of Days to Update: 35

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 08/08/2016
Next Scheduled EDR Contact: 11/21/2016
Data Release Frequency: Annually

List of Underground Storage Tank Cleanups

Orange County Underground Storage Tank Cleanups (LUST).

Date of Government Version: 05/01/2016
Date Data Arrived at EDR: 05/17/2016
Date Made Active in Reports: 06/21/2016
Number of Days to Update: 35

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 08/08/2016
Next Scheduled EDR Contact: 11/21/2016
Data Release Frequency: Quarterly

List of Underground Storage Tank Facilities

Orange County Underground Storage Tank Facilities (UST).

Date of Government Version: 05/01/2016
Date Data Arrived at EDR: 05/11/2016
Date Made Active in Reports: 06/01/2016
Number of Days to Update: 21

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 08/09/2016
Next Scheduled EDR Contact: 11/21/2016
Data Release Frequency: Quarterly

PLACER COUNTY:

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Master List of Facilities

List includes aboveground tanks, underground tanks and cleanup sites.

Date of Government Version: 06/16/2016
Date Data Arrived at EDR: 06/20/2016
Date Made Active in Reports: 08/09/2016
Number of Days to Update: 50

Source: Placer County Health and Human Services
Telephone: 530-745-2363
Last EDR Contact: 09/02/2016
Next Scheduled EDR Contact: 12/19/2016
Data Release Frequency: Semi-Annually

RIVERSIDE COUNTY:

Listing of Underground Tank Cleanup Sites

Riverside County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 04/13/2016
Date Data Arrived at EDR: 04/15/2016
Date Made Active in Reports: 05/09/2016
Number of Days to Update: 24

Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 09/19/2016
Next Scheduled EDR Contact: 01/02/2017
Data Release Frequency: Quarterly

Underground Storage Tank Tank List

Underground storage tank sites located in Riverside county.

Date of Government Version: 07/13/2016
Date Data Arrived at EDR: 07/18/2016
Date Made Active in Reports: 08/08/2016
Number of Days to Update: 21

Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 09/19/2016
Next Scheduled EDR Contact: 01/02/2017
Data Release Frequency: Quarterly

SACRAMENTO COUNTY:

Toxic Site Clean-Up List

List of sites where unauthorized releases of potentially hazardous materials have occurred.

Date of Government Version: 05/02/2016
Date Data Arrived at EDR: 07/06/2016
Date Made Active in Reports: 08/18/2016
Number of Days to Update: 43

Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 07/06/2016
Next Scheduled EDR Contact: 10/17/2016
Data Release Frequency: Quarterly

Master Hazardous Materials Facility List

Any business that has hazardous materials on site - hazardous material storage sites, underground storage tanks, waste generators.

Date of Government Version: 05/02/2016
Date Data Arrived at EDR: 07/06/2016
Date Made Active in Reports: 08/18/2016
Number of Days to Update: 43

Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 07/05/2016
Next Scheduled EDR Contact: 10/17/2016
Data Release Frequency: Quarterly

SAN BERNARDINO COUNTY:

Hazardous Material Permits

This listing includes underground storage tanks, medical waste handlers/generators, hazardous materials handlers, hazardous waste generators, and waste oil generators/handlers.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 06/09/2016
Date Data Arrived at EDR: 06/10/2016
Date Made Active in Reports: 07/20/2016
Number of Days to Update: 40

Source: San Bernardino County Fire Department Hazardous Materials Division
Telephone: 909-387-3041
Last EDR Contact: 08/08/2016
Next Scheduled EDR Contact: 11/21/2016
Data Release Frequency: Quarterly

SAN DIEGO COUNTY:

Hazardous Materials Management Division Database

The database includes: HE58 - This report contains the business name, site address, business phone number, establishment 'H' permit number, type of permit, and the business status. HE17 - In addition to providing the same information provided in the HE58 listing, HE17 provides inspection dates, violations received by the establishment, hazardous waste generated, the quantity, method of storage, treatment/disposal of waste and the hauler, and information on underground storage tanks. Unauthorized Release List - Includes a summary of environmental contamination cases in San Diego County (underground tank cases, non-tank cases, groundwater contamination, and soil contamination are included.)

Date of Government Version: 09/23/2013
Date Data Arrived at EDR: 09/24/2013
Date Made Active in Reports: 10/17/2013
Number of Days to Update: 23

Source: Hazardous Materials Management Division
Telephone: 619-338-2268
Last EDR Contact: 06/02/2016
Next Scheduled EDR Contact: 09/19/2016
Data Release Frequency: Quarterly

Solid Waste Facilities

San Diego County Solid Waste Facilities.

Date of Government Version: 10/31/2015
Date Data Arrived at EDR: 11/07/2015
Date Made Active in Reports: 01/04/2016
Number of Days to Update: 58

Source: Department of Health Services
Telephone: 619-338-2209
Last EDR Contact: 07/20/2016
Next Scheduled EDR Contact: 10/07/2016
Data Release Frequency: Varies

Environmental Case Listing

The listing contains all underground tank release cases and projects pertaining to properties contaminated with hazardous substances that are actively under review by the Site Assessment and Mitigation Program.

Date of Government Version: 03/23/2010
Date Data Arrived at EDR: 06/15/2010
Date Made Active in Reports: 07/09/2010
Number of Days to Update: 24

Source: San Diego County Department of Environmental Health
Telephone: 619-338-2371
Last EDR Contact: 09/02/2016
Next Scheduled EDR Contact: 12/19/2016
Data Release Frequency: No Update Planned

SAN FRANCISCO COUNTY:

Local Oversight Facilities

A listing of leaking underground storage tank sites located in San Francisco county.

Date of Government Version: 09/19/2008
Date Data Arrived at EDR: 09/19/2008
Date Made Active in Reports: 09/29/2008
Number of Days to Update: 10

Source: Department Of Public Health San Francisco County
Telephone: 415-252-3920
Last EDR Contact: 08/03/2016
Next Scheduled EDR Contact: 11/21/2016
Data Release Frequency: Quarterly

Underground Storage Tank Information

Underground storage tank sites located in San Francisco county.

Date of Government Version: 11/29/2010
Date Data Arrived at EDR: 03/10/2011
Date Made Active in Reports: 03/15/2011
Number of Days to Update: 5

Source: Department of Public Health
Telephone: 415-252-3920
Last EDR Contact: 08/03/2016
Next Scheduled EDR Contact: 11/21/2016
Data Release Frequency: Quarterly

SAN JOAQUIN COUNTY:

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

San Joaquin Co. UST

A listing of underground storage tank locations in San Joaquin county.

Date of Government Version: 06/16/2016
Date Data Arrived at EDR: 06/20/2016
Date Made Active in Reports: 08/08/2016
Number of Days to Update: 49

Source: Environmental Health Department
Telephone: N/A
Last EDR Contact: 09/19/2016
Next Scheduled EDR Contact: 01/02/2017
Data Release Frequency: Semi-Annually

SAN LUIS OBISPO COUNTY:

CUPA Facility List

Cupa Facility List.

Date of Government Version: 05/23/2016
Date Data Arrived at EDR: 05/24/2016
Date Made Active in Reports: 06/21/2016
Number of Days to Update: 28

Source: San Luis Obispo County Public Health Department
Telephone: 805-781-5596
Last EDR Contact: 08/17/2016
Next Scheduled EDR Contact: 12/05/2016
Data Release Frequency: Varies

SAN MATEO COUNTY:

Business Inventory

List includes Hazardous Materials Business Plan, hazardous waste generators, and underground storage tanks.

Date of Government Version: 06/02/2016
Date Data Arrived at EDR: 06/07/2016
Date Made Active in Reports: 06/22/2016
Number of Days to Update: 15

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 09/12/2016
Next Scheduled EDR Contact: 12/26/2016
Data Release Frequency: Annually

Fuel Leak List

A listing of leaking underground storage tank sites located in San Mateo county.

Date of Government Version: 06/09/2016
Date Data Arrived at EDR: 06/13/2016
Date Made Active in Reports: 08/09/2016
Number of Days to Update: 57

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 09/12/2016
Next Scheduled EDR Contact: 12/26/2016
Data Release Frequency: Semi-Annually

SANTA BARBARA COUNTY:

CUPA Facility Listing

CUPA Program Listing from the Environmental Health Services division.

Date of Government Version: 09/08/2011
Date Data Arrived at EDR: 09/09/2011
Date Made Active in Reports: 10/07/2011
Number of Days to Update: 28

Source: Santa Barbara County Public Health Department
Telephone: 805-686-8167
Last EDR Contact: 08/17/2016
Next Scheduled EDR Contact: 12/05/2016
Data Release Frequency: Varies

SANTA CLARA COUNTY:

Cupa Facility List

Cupa facility list

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 05/25/2016
Date Data Arrived at EDR: 05/26/2016
Date Made Active in Reports: 06/22/2016
Number of Days to Update: 27

Source: Department of Environmental Health
Telephone: 408-918-1973
Last EDR Contact: 08/17/2016
Next Scheduled EDR Contact: 12/05/2016
Data Release Frequency: Varies

HIST LUST - Fuel Leak Site Activity Report

A listing of open and closed leaking underground storage tanks. This listing is no longer updated by the county. Leaking underground storage tanks are now handled by the Department of Environmental Health.

Date of Government Version: 03/29/2005
Date Data Arrived at EDR: 03/30/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 22

Source: Santa Clara Valley Water District
Telephone: 408-265-2600
Last EDR Contact: 03/23/2009
Next Scheduled EDR Contact: 06/22/2009
Data Release Frequency: No Update Planned

LOP Listing

A listing of leaking underground storage tanks located in Santa Clara county.

Date of Government Version: 03/03/2014
Date Data Arrived at EDR: 03/05/2014
Date Made Active in Reports: 03/18/2014
Number of Days to Update: 13

Source: Department of Environmental Health
Telephone: 408-918-3417
Last EDR Contact: 08/24/2016
Next Scheduled EDR Contact: 12/12/2016
Data Release Frequency: Annually

Hazardous Material Facilities

Hazardous material facilities, including underground storage tank sites.

Date of Government Version: 05/26/2016
Date Data Arrived at EDR: 06/01/2016
Date Made Active in Reports: 07/20/2016
Number of Days to Update: 49

Source: City of San Jose Fire Department
Telephone: 408-535-7694
Last EDR Contact: 08/03/2016
Next Scheduled EDR Contact: 11/21/2016
Data Release Frequency: Annually

SANTA CRUZ COUNTY:

CUPA Facility List

CUPA facility listing.

Date of Government Version: 05/31/2016
Date Data Arrived at EDR: 06/02/2016
Date Made Active in Reports: 06/21/2016
Number of Days to Update: 19

Source: Santa Cruz County Environmental Health
Telephone: 831-464-2761
Last EDR Contact: 08/17/2016
Next Scheduled EDR Contact: 12/05/2016
Data Release Frequency: Varies

SHASTA COUNTY:

CUPA Facility List

Cupa Facility List.

Date of Government Version: 06/14/2016
Date Data Arrived at EDR: 06/16/2016
Date Made Active in Reports: 08/09/2016
Number of Days to Update: 54

Source: Shasta County Department of Resource Management
Telephone: 530-225-5789
Last EDR Contact: 08/22/2016
Next Scheduled EDR Contact: 12/05/2016
Data Release Frequency: Varies

SOLANO COUNTY:

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Leaking Underground Storage Tanks

A listing of leaking underground storage tank sites located in Solano county.

Date of Government Version: 06/09/2016
Date Data Arrived at EDR: 06/13/2016
Date Made Active in Reports: 08/09/2016
Number of Days to Update: 57

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 09/12/2016
Next Scheduled EDR Contact: 12/26/2016
Data Release Frequency: Quarterly

Underground Storage Tanks

Underground storage tank sites located in Solano county.

Date of Government Version: 06/09/2016
Date Data Arrived at EDR: 06/14/2016
Date Made Active in Reports: 08/08/2016
Number of Days to Update: 55

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 09/12/2016
Next Scheduled EDR Contact: 12/26/2016
Data Release Frequency: Quarterly

SONOMA COUNTY:

Cupa Facility List

Cupa Facility list

Date of Government Version: 07/10/2016
Date Data Arrived at EDR: 07/12/2016
Date Made Active in Reports: 08/09/2016
Number of Days to Update: 28

Source: County of Sonoma Fire & Emergency Services Department
Telephone: 707-565-1174
Last EDR Contact: 07/07/2016
Next Scheduled EDR Contact: 10/10/2016
Data Release Frequency: Varies

Leaking Underground Storage Tank Sites

A listing of leaking underground storage tank sites located in Sonoma county.

Date of Government Version: 07/01/2016
Date Data Arrived at EDR: 07/05/2016
Date Made Active in Reports: 08/18/2016
Number of Days to Update: 44

Source: Department of Health Services
Telephone: 707-565-6565
Last EDR Contact: 06/24/2016
Next Scheduled EDR Contact: 10/10/2016
Data Release Frequency: Quarterly

SUTTER COUNTY:

Underground Storage Tanks

Underground storage tank sites located in Sutter county.

Date of Government Version: 06/02/2016
Date Data Arrived at EDR: 06/07/2016
Date Made Active in Reports: 06/23/2016
Number of Days to Update: 16

Source: Sutter County Department of Agriculture
Telephone: 530-822-7500
Last EDR Contact: 09/02/2016
Next Scheduled EDR Contact: 12/19/2016
Data Release Frequency: Semi-Annually

TUOLUMNE COUNTY:

CUPA Facility List

Cupa facility list

Date of Government Version: 05/03/2016
Date Data Arrived at EDR: 05/10/2016
Date Made Active in Reports: 06/17/2016
Number of Days to Update: 38

Source: Division of Environmental Health
Telephone: 209-533-5633
Last EDR Contact: 08/03/2016
Next Scheduled EDR Contact: 10/07/2016
Data Release Frequency: Varies

VENTURA COUNTY:

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Business Plan, Hazardous Waste Producers, and Operating Underground Tanks

The BWT list indicates by site address whether the Environmental Health Division has Business Plan (B), Waste Producer (W), and/or Underground Tank (T) information.

Date of Government Version: 06/28/2016	Source: Ventura County Environmental Health Division
Date Data Arrived at EDR: 08/01/2016	Telephone: 805-654-2813
Date Made Active in Reports: 09/23/2016	Last EDR Contact: 07/25/2016
Number of Days to Update: 53	Next Scheduled EDR Contact: 11/07/2016
	Data Release Frequency: Quarterly

Inventory of Illegal Abandoned and Inactive Sites

Ventura County Inventory of Closed, Illegal Abandoned, and Inactive Sites.

Date of Government Version: 12/01/2011	Source: Environmental Health Division
Date Data Arrived at EDR: 12/01/2011	Telephone: 805-654-2813
Date Made Active in Reports: 01/19/2012	Last EDR Contact: 06/28/2016
Number of Days to Update: 49	Next Scheduled EDR Contact: 10/17/2016
	Data Release Frequency: Annually

Listing of Underground Tank Cleanup Sites

Ventura County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 05/29/2008	Source: Environmental Health Division
Date Data Arrived at EDR: 06/24/2008	Telephone: 805-654-2813
Date Made Active in Reports: 07/31/2008	Last EDR Contact: 08/10/2016
Number of Days to Update: 37	Next Scheduled EDR Contact: 11/28/2016
	Data Release Frequency: Quarterly

Medical Waste Program List

To protect public health and safety and the environment from potential exposure to disease causing agents, the Environmental Health Division Medical Waste Program regulates the generation, handling, storage, treatment and disposal of medical waste throughout the County.

Date of Government Version: 03/28/2016	Source: Ventura County Resource Management Agency
Date Data Arrived at EDR: 04/29/2016	Telephone: 805-654-2813
Date Made Active in Reports: 06/22/2016	Last EDR Contact: 07/25/2016
Number of Days to Update: 54	Next Scheduled EDR Contact: 11/07/2016
	Data Release Frequency: Quarterly

Underground Tank Closed Sites List

Ventura County Operating Underground Storage Tank Sites (UST)/Underground Tank Closed Sites List.

Date of Government Version: 05/26/2016	Source: Environmental Health Division
Date Data Arrived at EDR: 06/16/2016	Telephone: 805-654-2813
Date Made Active in Reports: 08/09/2016	Last EDR Contact: 09/14/2016
Number of Days to Update: 54	Next Scheduled EDR Contact: 12/26/2016
	Data Release Frequency: Quarterly

YOLO COUNTY:

Underground Storage Tank Comprehensive Facility Report

Underground storage tank sites located in Yolo county.

Date of Government Version: 06/30/2016	Source: Yolo County Department of Health
Date Data Arrived at EDR: 07/05/2016	Telephone: 530-666-8646
Date Made Active in Reports: 08/09/2016	Last EDR Contact: 06/30/2016
Number of Days to Update: 35	Next Scheduled EDR Contact: 10/17/2016
	Data Release Frequency: Annually

YUBA COUNTY:

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

CUPA Facility List

CUPA facility listing for Yuba County.

Date of Government Version: 04/29/2016

Date Data Arrived at EDR: 05/03/2016

Date Made Active in Reports: 06/17/2016

Number of Days to Update: 45

Source: Yuba County Environmental Health Department

Telephone: 530-749-7523

Last EDR Contact: 07/27/2016

Next Scheduled EDR Contact: 11/14/2016

Data Release Frequency: Varies

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

CT MANIFEST: Hazardous Waste Manifest Data

Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 07/30/2013

Date Data Arrived at EDR: 08/19/2013

Date Made Active in Reports: 10/03/2013

Number of Days to Update: 45

Source: Department of Energy & Environmental Protection

Telephone: 860-424-3375

Last EDR Contact: 08/10/2016

Next Scheduled EDR Contact: 11/28/2016

Data Release Frequency: No Update Planned

NJ MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2013

Date Data Arrived at EDR: 07/17/2015

Date Made Active in Reports: 08/12/2015

Number of Days to Update: 26

Source: Department of Environmental Protection

Telephone: N/A

Last EDR Contact: 07/11/2016

Next Scheduled EDR Contact: 10/24/2016

Data Release Frequency: Annually

NY MANIFEST: Facility and Manifest Data

Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 08/01/2016

Date Data Arrived at EDR: 08/03/2016

Date Made Active in Reports: 09/09/2016

Number of Days to Update: 37

Source: Department of Environmental Conservation

Telephone: 518-402-8651

Last EDR Contact: 08/03/2016

Next Scheduled EDR Contact: 11/14/2016

Data Release Frequency: Annually

PA MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2014

Date Data Arrived at EDR: 07/24/2015

Date Made Active in Reports: 08/18/2015

Number of Days to Update: 25

Source: Department of Environmental Protection

Telephone: 717-783-8990

Last EDR Contact: 07/18/2016

Next Scheduled EDR Contact: 10/31/2016

Data Release Frequency: Annually

RI MANIFEST: Manifest information

Hazardous waste manifest information

Date of Government Version: 12/31/2013

Date Data Arrived at EDR: 06/19/2015

Date Made Active in Reports: 07/15/2015

Number of Days to Update: 26

Source: Department of Environmental Management

Telephone: 401-222-2797

Last EDR Contact: 09/20/2016

Next Scheduled EDR Contact: 12/05/2016

Data Release Frequency: Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

WI MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2015

Date Data Arrived at EDR: 04/14/2016

Date Made Active in Reports: 06/03/2016

Number of Days to Update: 50

Source: Department of Natural Resources

Telephone: N/A

Last EDR Contact: 09/12/2016

Next Scheduled EDR Contact: 12/26/2016

Data Release Frequency: Annually

Oil/Gas Pipelines

Source: PennWell Corporation

Petroleum Bundle (Crude Oil, Refined Products, Petrochemicals, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)) N = Natural Gas Bundle (Natural Gas, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)). This map includes information copyrighted by PennWell Corporation. This information is provided on a best effort basis and PennWell Corporation does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of PennWell.

Electric Power Transmission Line Data

Source: PennWell Corporation

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Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:

Source: American Hospital Association, Inc.

Telephone: 312-280-5991

The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing

Source: Centers for Medicare & Medicaid Services

Telephone: 410-786-3000

A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes

Source: National Institutes of Health

Telephone: 301-594-6248

Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Licensed Facilities

Source: Department of Social Services

Telephone: 916-657-4041

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.

Source: FEMA

Telephone: 877-336-2627

Date of Government Version: 2003, 2015

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory
Source: Department of Fish & Game
Telephone: 916-445-0411

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

STREET AND ADDRESS INFORMATION

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APPENDIX D

HISTORICAL SOURCES



363593 PM

I-215 & Holland Road

Menifee, CA 92584

Inquiry Number: 4737393.5

September 27, 2016

The EDR Aerial Photo Decade Package



6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Aerial Photo Decade Package

09/27/16

Site Name:

363593 PM
I-215 & Holland Road
Menifee, CA 92584
EDR Inquiry # 4737393.5

Client Name:

AEI Consultants
2500 Camino Diablo
Walnut Creek, CA 94597
Contact: Kimberly Butler



Environmental Data Resources, Inc. (EDR) Aerial Photo Decade Package is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's professional researchers provide digitally reproduced historical aerial photographs, and when available, provide one photo per decade.

Search Results:

<u>Year</u>	<u>Scale</u>	<u>Details</u>	<u>Source</u>
2012	1"=500'	Flight Year: 2012	USDA/NAIP
2010	1"=500'	Flight Year: 2010	USDA/NAIP
2009	1"=500'	Flight Year: 2009	USDA/NAIP
2006	1"=500'	Flight Year: 2006	USDA/NAIP
2005	1"=500'	Flight Year: 2005	USDA/NAIP
2002	1"=500'	Acquisition Date: May 22, 2002	USGS/DOQQ
1996	1"=500'	Flight Date: January 01, 1996	USGS
1989	1"=500'	Flight Date: August 15, 1989	USDA
1985	1"=500'	Flight Date: July 28, 1985	USDA
1978	1"=500'	Flight Date: September 20, 1978	USDA
1967	1"=500'	Flight Date: May 15, 1967	USDA
1961	1"=500'	Flight Date: August 18, 1961	USDA
1953	1"=500'	Flight Date: August 28, 1953	USDA
1949	1"=500'	Flight Date: May 23, 1949	USDA
1938	1"=500'	Flight Date: June 14, 1938	USDA

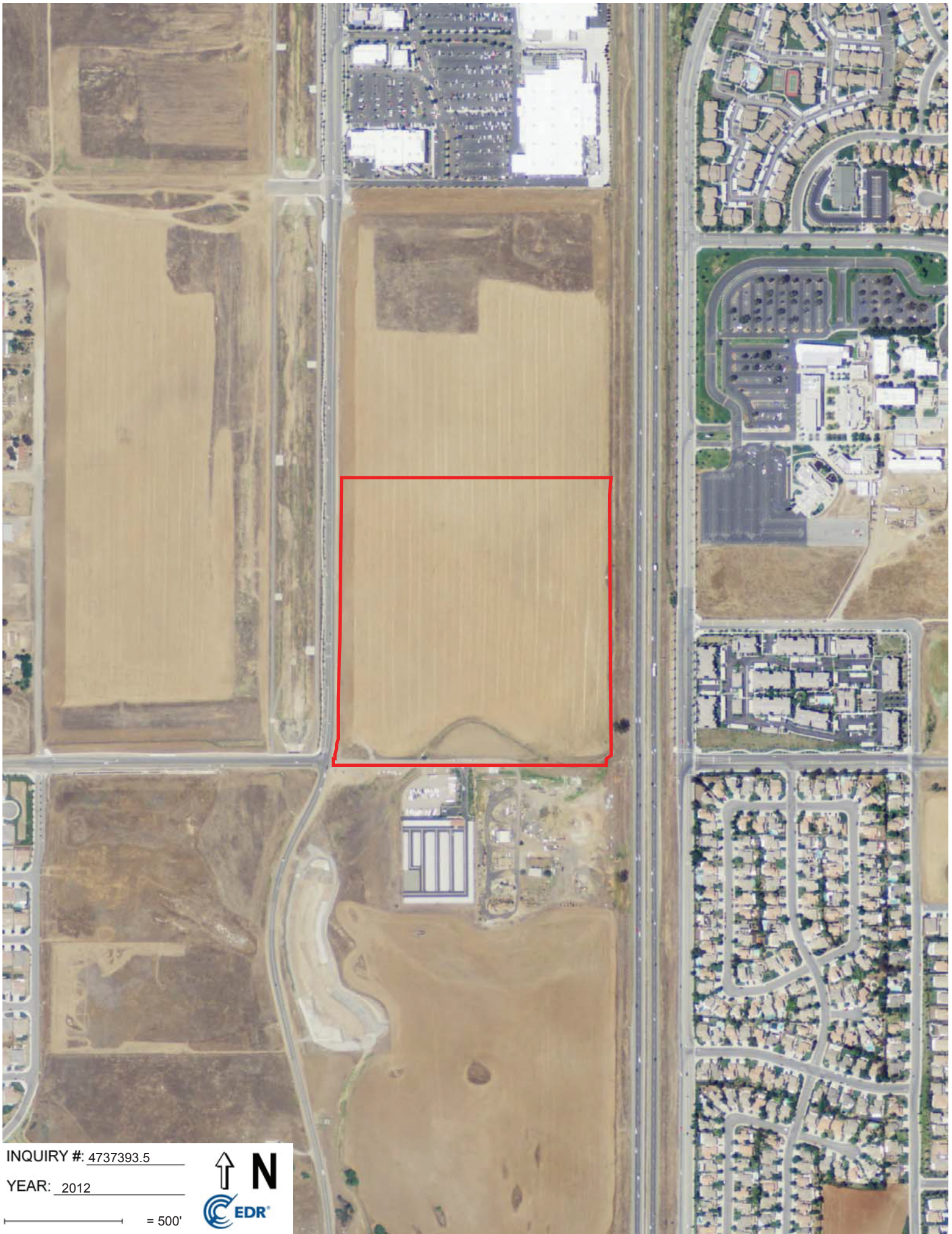
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INQUIRY #: 4737393.5

YEAR: 2012

— = 500'





INQUIRY #: 4737393.5

YEAR: 2010

— = 500'



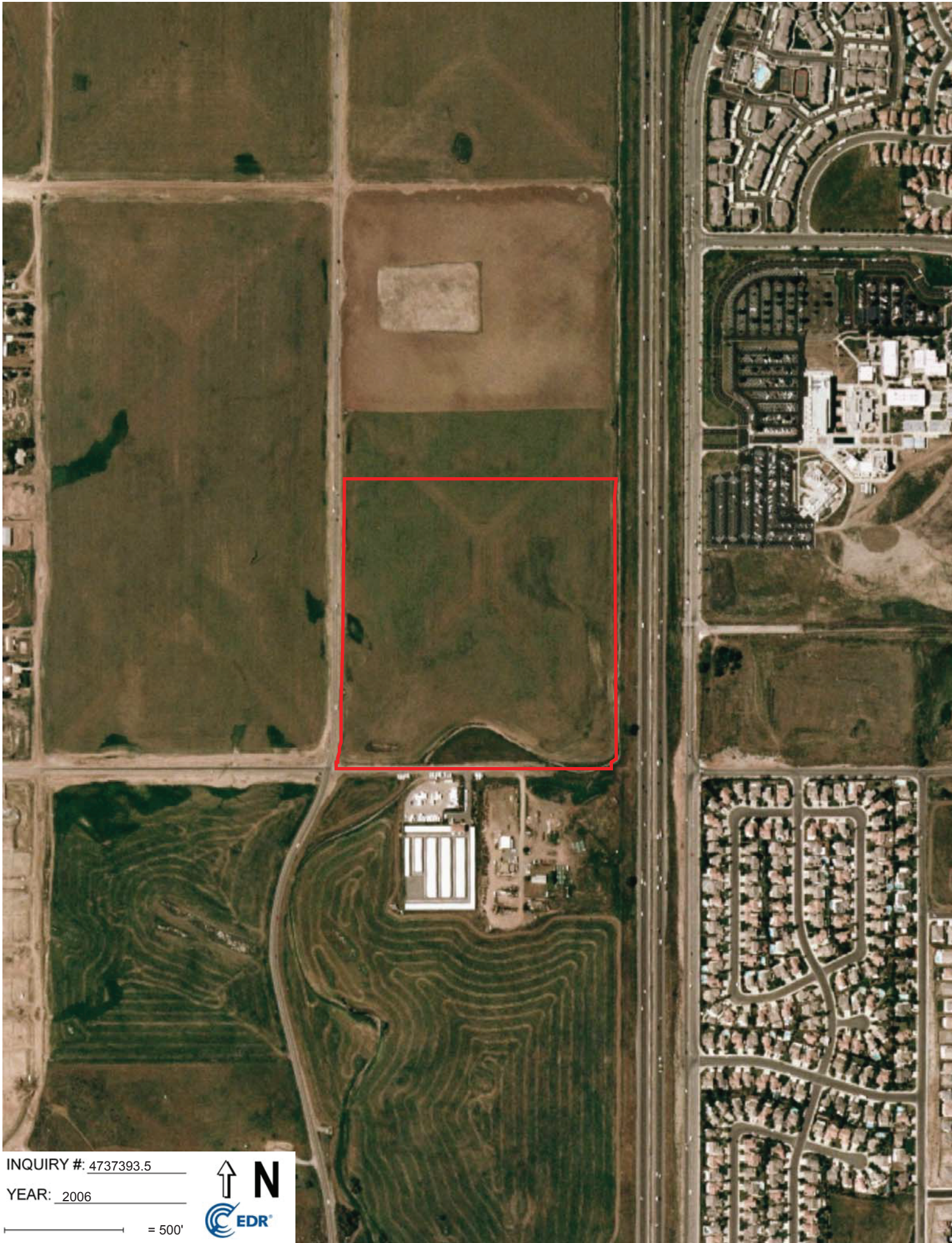


INQUIRY #: 4737393.5

YEAR: 2009

— = 500'



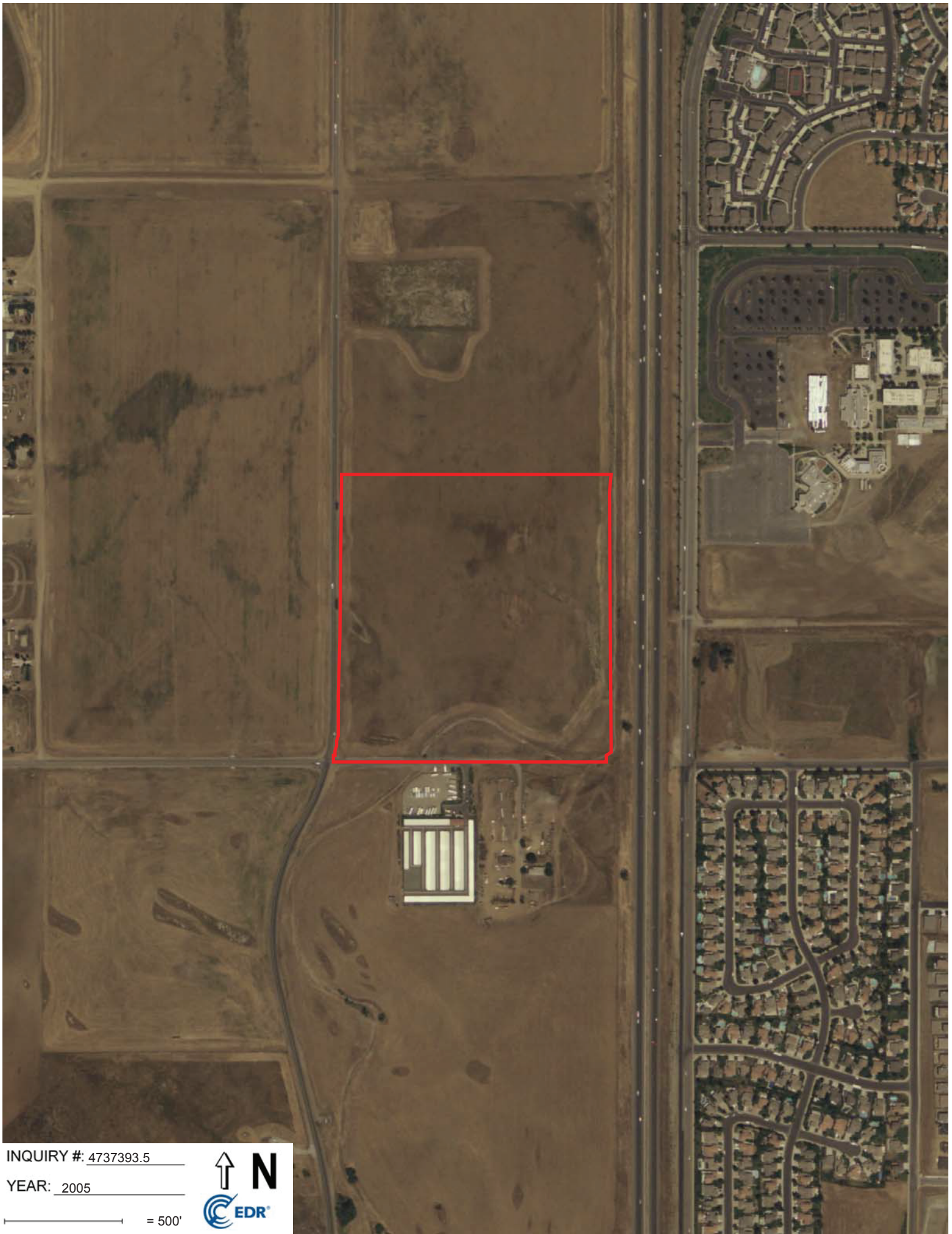


INQUIRY #: 4737393.5

YEAR: 2006

— = 500'



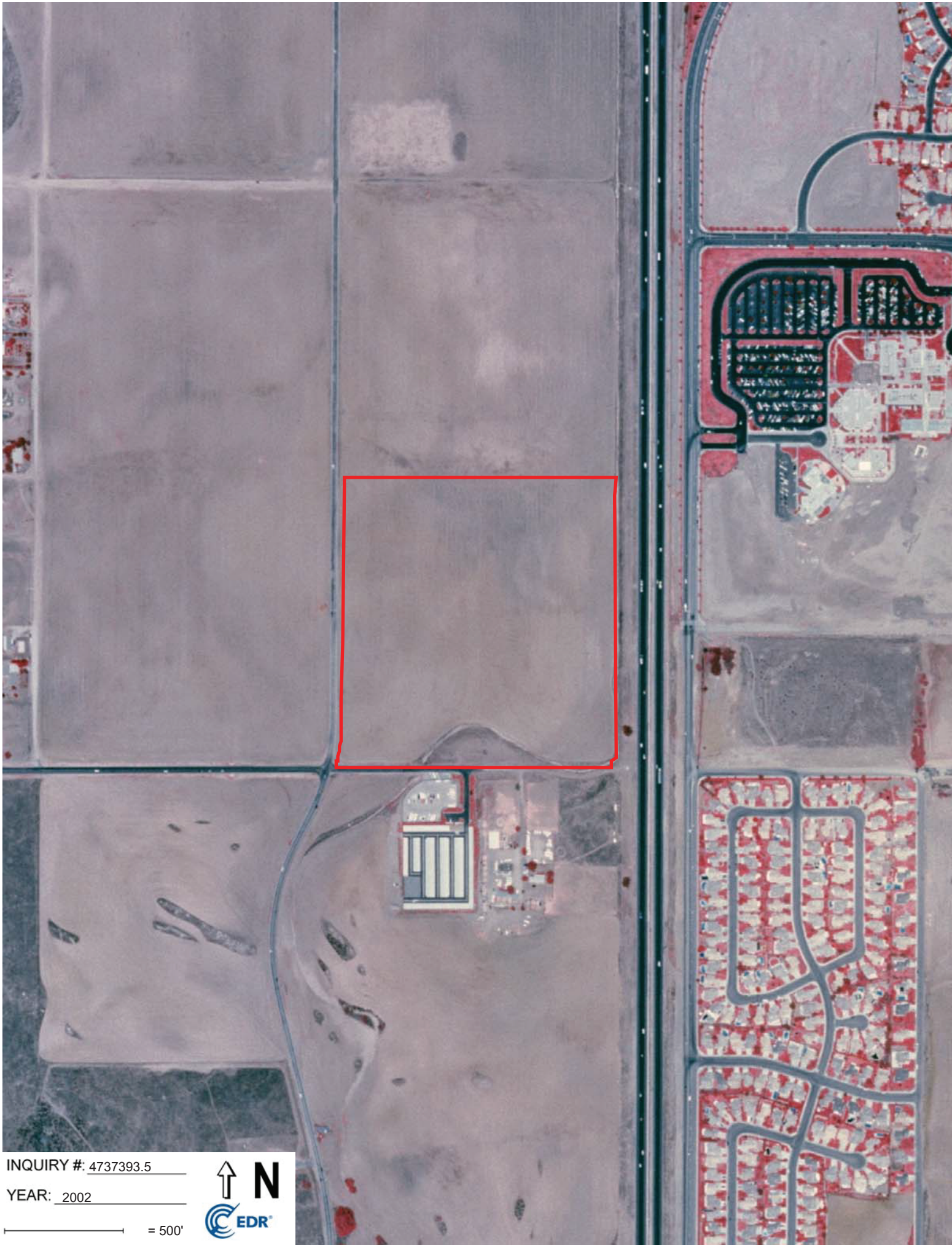


INQUIRY #: 4737393.5

YEAR: 2005

— = 500'





INQUIRY #: 4737393.5

YEAR: 2002

— = 500'





INQUIRY #: 4737393.5

YEAR: 1996

— = 500'





INQUIRY #: 4737393.5

YEAR: 1989

— = 500'





INQUIRY #: 4737393.5

YEAR: 1985

— = 500'





INQUIRY #: 4737393.5

YEAR: 1978

— = 500'



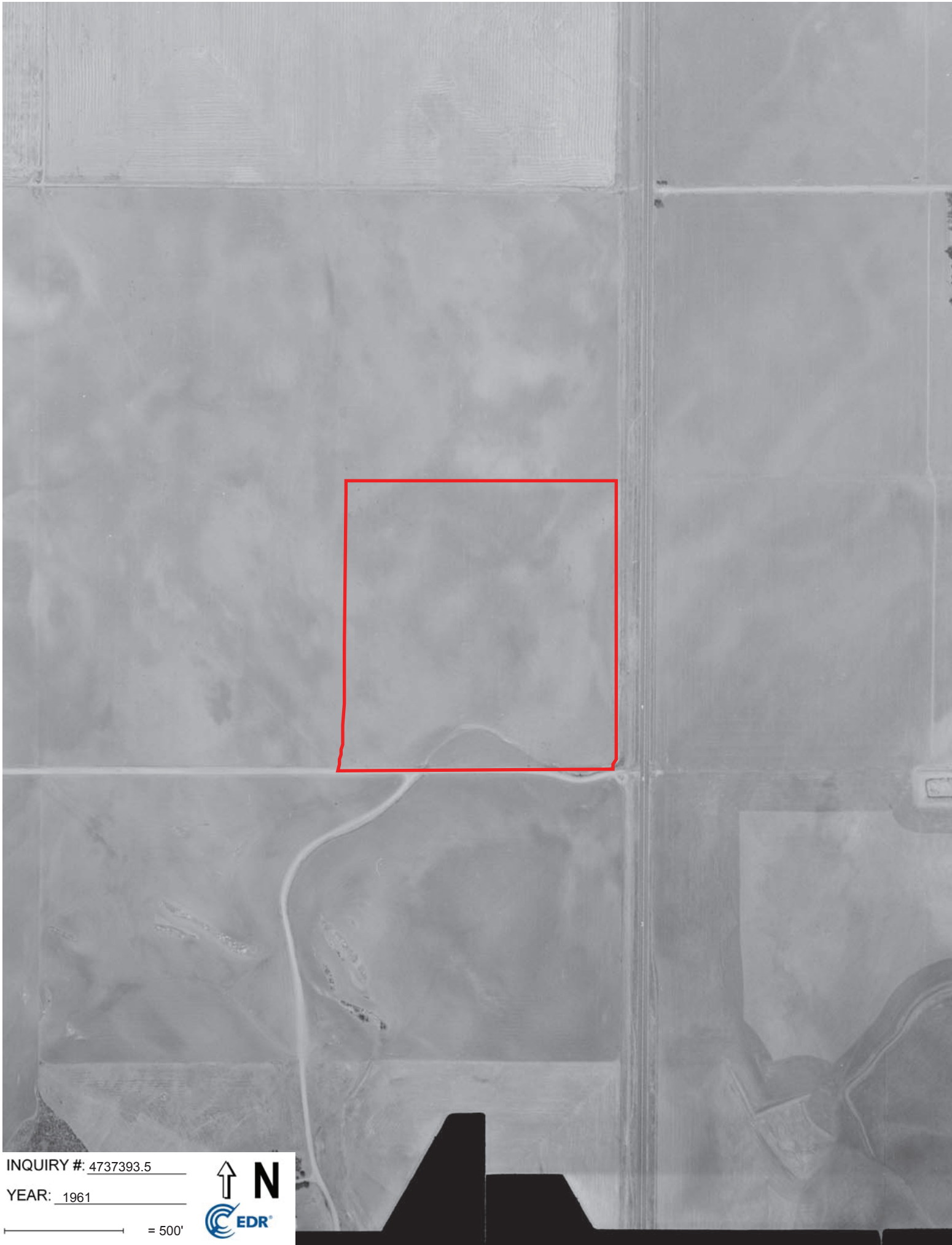


INQUIRY #: 4737393.5

YEAR: 1967

— = 500'





INQUIRY #: 4737393.5

YEAR: 1961

— = 500'





INQUIRY #: 4737393.5

YEAR: 1953

— = 500'



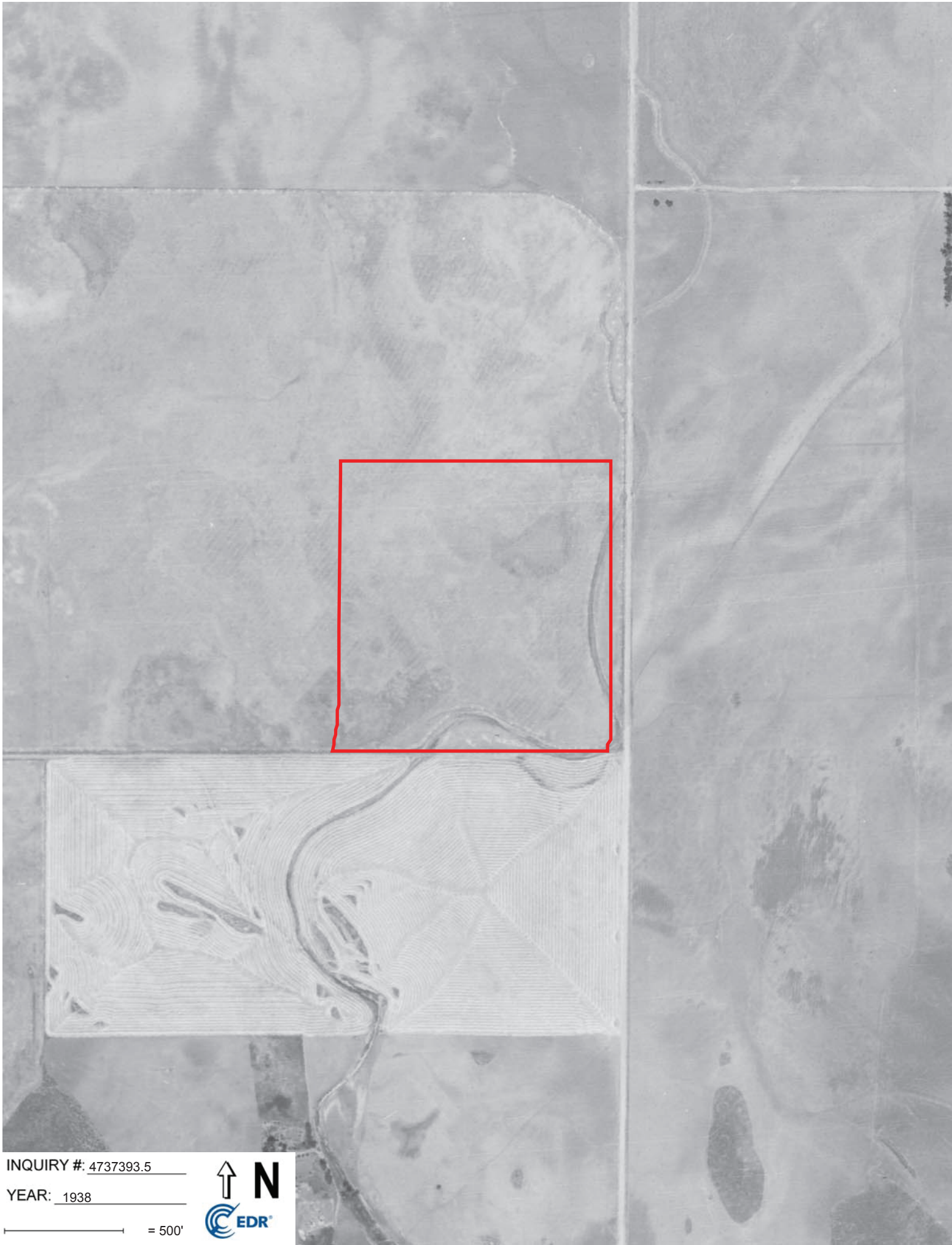


INQUIRY #: 4737393.5

YEAR: 1949

— = 500'





INQUIRY #: 4737393.5

YEAR: 1938

— = 500'





363593 PM

I-215 & Holland Road

Menifee, CA 92584

Inquiry Number: 4737393.3

September 26, 2016

Certified Sanborn® Map Report



6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

Certified Sanborn® Map Report

09/26/16

Site Name:

363593 PM
I-215 & Holland Road
Menifee, CA 92584
EDR Inquiry # 4737393.3

Client Name:

AEI Consultants
2500 Camino Diablo
Walnut Creek, CA 94597
Contact: Kimberly Butler



The Sanborn Library has been searched by EDR and maps covering the target property location as provided by AEI Consultants were identified for the years listed below. The Sanborn Library is the largest, most complete collection of fire insurance maps. The collection includes maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow, and others. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by the Sanborn Library LLC, the copyright holder for the collection. Results can be authenticated by visiting www.edrnet.com/sanborn.

The Sanborn Library is continually enhanced with newly identified map archives. This report accesses all maps in the collection as of the day this report was generated.

Certified Sanborn Results:

Certification # A46F-4715-AC39

PO # 118231

Project 363593 PM

UNMAPPED PROPERTY

This report certifies that the complete holdings of the Sanborn Library, LLC collection have been searched based on client supplied target property information, and fire insurance maps covering the target property were not found.



Sanborn® Library search results

Certification #: A46F-4715-AC39

The Sanborn Library includes more than 1.2 million fire insurance maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow and others which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

- ☒ Library of Congress
- ☒ University Publications of America
- ☒ EDR Private Collection

The Sanborn Library LLC Since 1866™

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363593 PM

I-215 & Holland Road
Menifee, CA 92584

Inquiry Number: 4737393.8
September 28, 2016

The EDR-City Directory Image Report

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SECTION

Executive Summary

Findings

City Directory Images

Thank you for your business.

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with any questions or comments.

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EXECUTIVE SUMMARY

DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Report is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Report includes a search of available city directory data at 5 year intervals.

RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. A check mark indicates where information was identified in the source and provided in this report.

<u>Year</u>	<u>Target Street</u>	<u>Cross Street</u>	<u>Source</u>
2013	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Cole Information Services
2008	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Cole Information Services
2003	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Cole Information Services
1999	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Cole Information Services
1995	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Cole Information Services
1992	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Cole Information Services
1990	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Haines Criss-Cross Directory
1985	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Haines Criss-Cross Directory
1980	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Haines Criss-Cross Directory
1975	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Haines Criss-Cross Directory

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FINDINGS

TARGET PROPERTY STREET

I-215 & Holland Road
Menifee, CA 92584

<u>Year</u>	<u>CD Image</u>	<u>Source</u>
-------------	-----------------	---------------

HOLLAND RD

2013	pg A1	Cole Information Services
2008	pg A2	Cole Information Services
2003	pg A3	Cole Information Services
1999	pg A4	Cole Information Services
1995	pg A5	Cole Information Services
1992	pg A6	Cole Information Services
1990	pg A7	Haines Criss-Cross Directory
1985	pg A8	Haines Criss-Cross Directory
1980	pg A9	Haines Criss-Cross Directory
1975	pg A10	Haines Criss-Cross Directory

I-215

2013	-	Cole Information Services	Target and Adjoining not listed in Source
2008	-	Cole Information Services	Target and Adjoining not listed in Source
2003	-	Cole Information Services	Target and Adjoining not listed in Source
1999	-	Cole Information Services	Target and Adjoining not listed in Source
1995	-	Cole Information Services	Target and Adjoining not listed in Source
1992	-	Cole Information Services	Target and Adjoining not listed in Source
1990	-	Haines Criss-Cross Directory	Street not listed in Source
1985	-	Haines Criss-Cross Directory	Street not listed in Source
1980	-	Haines Criss-Cross Directory	Street not listed in Source
1975	-	Haines Criss-Cross Directory	Street not listed in Source

FINDINGS

CROSS STREETS

No Cross Streets Identified

City Directory Images

HOLLAND RD 2013

25891	EAGLE RIDGE CHURCH
26011	NORMAN MIDDLETON
26240	OCCUPANT UNKNOWN
27191	YOUNG LEONARD
27200	NICHOLAS CROUCH
27247	OCCUPANT UNKNOWN
27260	CATHY COKE
27350	FREDERICK FIELDING
27400	ADVANTAGE AIR CONDITIONING
	OCCUPANT UNKNOWN
27887	ALLEN AUTO GLASS
	MENIFEE SELF STORAGE
	UHAUL NEIGHBORHOOD DEALER
27989	BEDON CONSTRUCTION
	DONALD PARKER

HOLLAND RD 2008

25891	EGORICH CHURCH
26011	MIDDLETOWN BODY SHOP GARAGE
	NORMAN MIDDLETON
	U HAUL CO
26240	JAYSON YOUNG
27141	LARRY WHITE
27191	OCCUPANT UNKNOWN
27200	NICHOLAS CROUCH
27247	AKS PILOT CAR SERVICE
	SANDRA BARNES
27260	ALL SEASONS HEATING & AIR
	CATHY COKE
27350	FREDERICK FIELDING
27400	PHILLIP HAUSER
27887	MENIFEE SELF STORAGE
	MENIFEE SELF STORAGE & U HAUL CO
27989	BEDON CONSTRUCTION INC
	DONALD PARKER

HOLLAND RD 2003

25891	MENIFEE VALLEY CHURCH
	OCCUPANT UNKNOWN
26011	MIDDLETONS BODY SHOP
	NORMAN MIDDLETON
26240	OCCUPANT UNKNOWN
27141	ERALDO MAESTAS
27191	OCCUPANT UNKNOWN
27200	GILBERT FLORES
27247	STACEY KAZMARK
27260	LISA CASTRO
27350	FREDERICK FIELDING
27400	PHILLIP HAUSER
27887	JENNIFER ALLEN
	MENIFEE SELF STORAGE
	U HAUL CO
27989	BARBARA SHIELDS
	SHIELDS BD RNCH SP TRLR SLS

HOLLAND RD 1999

25891	MENIFEE VALLEY CHURCH
26011	MIDDLETON NORMAN
	NORMAN MIDDLETON
27200	NICHOLAS CROUCH
27260	CATHY COKE
27350	FREDERICK FIELDING
27400	PHILLIP HAUSER
27989	DONALD PARKER

HOLLAND RD 1995

25891	MENIFEE VALLEY CHURCH
26011	MIDDLETON, NORMAN
	MIDDLETONS BODY SHOP
26240	OCCUPANT UNKNOWNN
27200	GRAY, EARL
27247	TARVIN, CHARLES
27350	KAHLE, ALLISON
27400	OCCUPANT UNKNOWNN
27989	SHIELDS, BUD

HOLLAND RD 1992

25891	MENIFEE VLY CHURCH
26011	MIDDLETON, NORMAN
	MIDDLETONS BODY SHP
26240	C R PLUMBING
	HANKINS, R
27191	LITTLE STEPS
27200	DEARBORN, JEAN
27350	KAHLE, TOM
27989	SHIELDS, BUD

HOLLAND RD 1990

25075	CHRISTENSEN Hans	679-3562	
	CHRISTENSEN L	679-6255	1
25275	★WINCHESTER PHEASANT	672-1993	4
25609	DAVIS Thos	679-0489	6
25690	WILLIAMS Luprele	679-4865	
25710	ACOSTA Sheila	672-4401	6
25809	CARBAJAL Richard	679-0635	6
25891	★MENIFEE FIRST BAPT	679-4739	1
26011	MIDDLETON Norman	679-5741	
	★MIDDLETONS BODY SHP	679-5741	
26240	JARRELS Kenneth	672-3306	+0
27191	XXXX	00	
27200	WRIGHT Edna	672-3713	+0
27247	XXXX	00	
27400	XXXX	00	
27989	SHIELDS Barbara	672-2366	
	SHIELDS Bud	672-2366	
	SHIELDS Harry	672-2366	
	SHIELDS Harry	679-2536	+0

HOLLAND RD 1985

25075	CHRISTENSEN HANS	679-3562	
	CHRISTENSEN L	679-6255	1
25275	WINCHESTER PHEASANT	672-1993	4
25401	TIRHEIMER DAVID	679-3723	+5
25509	WADDELL ALFREDA	679-4245	
25609	XXXX	00	
25690	WILLIAMS LUPRELE	679-4865	
25710	XXXX	00	
25809	XXXX	00	
25891	MENIFEE FIRST BAPT	679-4739	1
26011	MIDDLETON NORMAN	679-5741	
26240	XXXX	00	
26703	WHITCOMB CATHERINE	672-2283	+5
27141	HENNINGS R J	679-7364	2
27191	XXXX	00	
27400	XXXX	00	
27989	SHIELDS BARBARA	672-2366	+5
	SHIELDS BUD	672-2366	+5
	SHIELDS HARRY	672-2366	+5

HOLLAND RD 1980

25075	CHRISTENSEN HANS	679-3562	
	GALLAGHER L	679-6255	+0
25401	WEYANDT GEO	679-7836	+0
25509	WADDELL ALFREDA	679-4245	
25609	SHROPSHIRE DANIEL	679-6976	9
25690	WILLIAMS LUPRELE	679-4865	
25710	CUSICK BURDETTE	679-1998	6
	MONTGOMERY BETSY R	679-9393	+0
25809	HAWK B	679-1825	+0
26011	MIDDLETON NORMAN	679-5741	5
26240	BITTNER HAROLD L	679-3254	9
27355	QUILTY PAUL	679-9444	+0
30901	XXXX	00	
30931	THANING STEVE	926-3918	+0
30965	XXXX	00	
30985★	HUNTERS AUTOMOTIVE	926-2567	+0
32490	DNOALD CONRAD C	926-2024	+0
33011	DOMENIGONI FRANCIS	926-1636	4
33555	SMITH FRED	926-2078	8
NO #★	BARNETT CHAS PASTR	679-4739	
★	2 BUS	18 RES	8 NEW

HOLLAND RD 1975

25075	CHRISTENSEN HANS	679-3562
25509	WADDELL ALFREDA	679-4245
25609	MAYFIELD JAS	679-2461+5
	MCKINSEY CLAUDE	679-4068
25690*	WILLIAMS ARABIANS	679-4865
25710	XXXX	00
25809	BELVILLE WM MRS	679-4525
26011	MIDDLETON NORMAN	679-5741+5
30901	MCELHINNEY ANDY	926-2590+5
33011	DOMENIGONI FRANCIS	926-1636 4
NO #	MIDDLETON RITA	679-3427+5
*	1 BUS 10 RES	4 NEW

APPENDIX E

REGULATORY AGENCY RECORDS

[Search Again](#)

Property Information Center

Property Information for the 2014-2015 tax year as of January 1, 2014

Property Information

Parcel Number: 360130003-6
Property Address:
Legal Description: N/A
Property Type: N/A
Assessment Description: N/A
Year Built: 0000
Square Feet: N/A
Bedroom: N/A
Bath: N/A
Pool: N
Lot Size: 37.04 Acres

Sales Information

Last Recorded Document: 07/2003
Recording Number: 0750779

Related Property Information

City Sphere: MENIFEE
Supervisory District: MARION ASHLEY
Landuse Designation: CITY
Agriculture Preserve: NOT IN AN AGRICULTURE PRESERVE
School District: MENIFEE UNION & PERRIS UNION HIGH
Water District: EMWD
Fema Flood Plan: FLOOD ZONE A

Assessed Value Information

Land: 2,018,719
Full Value: 2,018,719
Total Net: 2,018,719

Assessment Information

Assessment Number: 360130003-6
Tax Rate Area: 026-016
Taxability Code: 0-00
Base Year: 2003

Parcel Map

[View Parcel Map](#)

Tax Assessment District: N/A

Parcel Number: 360130003-6

Map Book: 360

Page/Block: 130

Parcel: 3

Check Digit: 6

HOW TO READ THE ASSESSOR'S MAP PAGE

The numerical parcel number on a map page consists of three main segments. The first three digits is the map book number. The second set of three numbers is the page/block number, and the third segment identifies the parcel number.



30095 Haun Rd Menifee, CA 92584

Map Address

Cleanup Sites

- ## Permitted Facilities

- ## Other Sites

- ☒ SIGNIFIES A CLOSED SITE

Tools

Map Coverages

TAKE A TOUR OF MAP FEATURES

 SITES CURRENTLY VISIBLE ON MAP



STATE WATER RESOURCES CONTROL BOARD

GEOTRACKER

CASE SUMMARY

REPORT DATE HAZARDOUS MATERIAL INCIDENT REPORT FILED WITH OES?

I. REPORTED BY -

UNKNOWN

CREATED BY

UNKNOWN

III. SITE LOCATION

FACILITY NAME

Santa Rosa Academy Charter School

FACILITY ID

FACILITY ADDRESS

27587 La Piedra Road

ORIENTATION OF SITE TO STREET

Menifee, CA 92586

CROSS STREET

RIVERSIDE COUNTY

Haun Road

V. SUBSTANCES RELEASED / CONTAMINANT(S) OF CONCERN

VI. DISCOVERY/ABATEMENT

DATE DISCHARGE BEGAN

DATE DISCOVERED

HOW DISCOVERED

DESCRIPTION

DATE STOPPED

STOP METHOD

DESCRIPTION

VII. SOURCE/CAUSE

SOURCE OF DISCHARGE

CAUSE OF DISCHARGE

DISCHARGE DESCRIPTION

VIII. CASE TYPE

CASE TYPE

IX. REMEDIAL ACTION

NO REMEDIAL ACTIONS ENTERED

X. GENERAL COMMENTS

XI. CERTIFICATION

I HEREBY CERTIFY THAT THE INFORMATION REPORTED HEREIN
IS TRUE AND ACCURATE TO THE BEST OF MY KNOWLEDGE.

XII. REGULATORY USE ONLY

LOCAL AGENCY CASE NUMBER

SR0025507

REGIONAL BOARD CASE NUMBER

LOCAL AGENCY

CONTACT NAME

SHARON BOLTINGHOUSE

INITIALS

SCB

ORGANIZATION NAME

RIVERSIDE COUNTY LOP

EMAIL ADDRESS

sbolting@rivcocha.org

ADDRESS

CONTACT DESCRIPTION

3880 LEMON ST SUITE 200
RIVERSIDE, CA 92501
County of Riverside Department of Environmental Health -- Associate Public Health Professional Geologist

PHONE TYPE

Phone

PHONE NUMBER

(951)-955-8980

EXTENSION**REGIONAL BOARD**

UNKNOWN

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COUNTY OF RIVERSIDE
DEPARTMENT OF ENVIRONMENTAL HEALTH

July 26, 2012

RCDEH-ECP Site: SR0025507

Duncan Walker, PG
Senior Geologist
Converse Consultants
10391 Corporate Dr.
Redlands, CA 92374

RE: Proposed Santa Rosa Academy Charter School located at 27587 La Piedra Road, City of Menifee in Riverside County. City of Menifee Public Use Permit No. 2011-165, APNs 360-110-013 and 360-110-015 (Previously APNs 360-110-010 and 360-110-011).

Dear Mr. Walker:

As stated in your *Response To Rcdeh-Ecp* letter dated July 24, 2012, the "Preliminary Environmental Assessment Report" (PEA) dated June 28, 2012 states that "agricultural/water wells were identified to be historically present on the 'Property'". No evidence of these wells, if extant, was observed during field activities on the Site". The PEA also states that "A prior Update Phase I ESA by Converse in August 2006 also indicated the Property was historically used for agriculture and also identified the potential presence of agricultural/water wells". Please provide a copy of the Converse Consultants, Update Phase I Environmental Site Assessment dated August, 23, 2006 for our records.

Review of RCDEH records indicate that an agriculture well was installed on APN 360-110-015, formerly APNs 360-110-011 and 360-110-002. A permit to abandon the well was issued on July 31, 2007 but completion of the work was never submitted. The well must be destroyed according to the DWR Well Standards¹ and the California Water Code². Please submit a well completion report to show that the well was properly destroyed or destroy the well according to the well standards. A copy of the well destruction permit is attached for your reference. The permit also includes a map indicating the location of the well.

The City of Menifee can determine if grading can begin on the adjacent parcel as to not interfere with well destruction activities or until documentation of the destruction is submitted to RCDEH.

If you have any further questions, please contact me at (951) 955-8982 or ayreyes@rivcocha.org.

Sincerely,

Yvonne Reyes, REHS
Environmental Health Specialist IV

cc: Lisa Gordon, Senior Planner, City of Menifee, lgordon@cityofmenifee.us.
Brad Burke, Competitive Edge Development, LLC, bradb@compedgev.com

¹ DWR Well standards: CHAPTER II. STANDARDS, Part III. Destruction of Wells, Section 20. Purpose of Destruction. A well that is no longer useful Note 21 (including exploration and test holes) must be destroyed in order to: 1. Assure that the groundwater supply is protected and preserved for further use. 2. Eliminate the potential physical hazard.

² CALIFORNIA WATER CODE: 13751.a) Every person who digs, bores, or drills a water well, cathodic protection well, groundwater monitoring well, or geothermal heat exchange well, abandons or destroys such a well, or deepens or re-perforates such a well, shall file with the department a report of completion of that well within 60 days from the date its construction, alteration, abandonment, or destruction is completed.

Environmental Cleanup Programs

Riverside Office: 3880 Lemon Street, Suite 200, Riverside, CA 92501 (951) 955-8982 Fax (951) 955-8988
Desert Office: 47950 Arabia Street, Indio CA 92201 (760) 863-7570 Fax (760) 863-8303



COUNTY OF RIVERSIDE
DEPARTMENT OF ENVIRONMENTAL HEALTH

July 21, 2012

RCDEH-ECP: SR0025507

Lisa Gordon
Senior Planner
City of Menifee
29714 Haun Road
Menifee, CA 92586

RE: Proposed Santa Rosa Academy Charter School located at 27587 La Piedra Road, City of Menifee in Riverside County. City of Menifee Public Use Permit No. 2011-165, APNs 360-110-013 and 360-110-015 (Previously APNs 360-110-010 and 360-110-011).

Project Proposal: City of Menifee Public Use Permit No. 2011-165 proposes a charter school for grades K-12 including administration buildings, library, classrooms, theater, gym and sports fields within a 27.22 gross acre site located on the southwest corner of Haun Road and La Piedra Road.

Dear Ms. Gordon,

The Riverside County Department of Environmental Health-Environmental Cleanup Programs (RCDEH-ECP) has reviewed the Preliminary Environmental Assessment Report (Converse Consultants, June 12, 2012, Revised June 28, 2012) and other environmental assessment documents related to this Site. The Preliminary Environmental Assessment Report (PEA) was conducted for the Site in general conformance with DTSC guidance documents. The PEA documents the results of the environmental assessment that was performed to evaluate the potential for agricultural chemicals in the soil associated with historic agricultural use and the potential for the past application of sewage sludge as fertilizer.

According to the document the Site does not pose a risk to human health or the environment based on the PEA screening level risk assessment. The PEA recommends No Further Action for the Site.

Based on the information provided in the Preliminary Environmental Assessment Report dated June 12, 2012 (revised June 28, 2012) and site visits conducted by RCDEH-ECP staff, and with the provision that the information provided was accurate and representative of site conditions, RCDEH-ECP concurs with the conclusions of the PEA that No Further Action is necessary and recommends the City of Menifee provide clearance for Public Use Permit No. 2011-165.

As with any real property, if a previously unidentified release or threatened release of a hazardous material or the presence of a naturally occurring hazardous material is discovered during development at the site, construction activities shall cease and RCDEH-ECP notified immediately. Additionally, further assessment and/or cleanup may be required.

Please be advised that RCDEH-ECP's review of the PEA was conducted solely to determine if

Environmental Cleanup Programs

Riverside Office: 3880 Lemon Street, Suite 200, Riverside, CA 92501 (951) 955-8982 Fax (951) 955-8988
Desert Office: 47950 Arabia Street, Indio CA 92201 (760) 863-7570 Fax (760) 863-8303

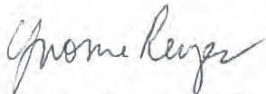
Proposed Santa Rosa Academy
SR0025507
July 21, 2012
Page 2

the recognized environmental conditions identified at this site pose a threat to human health or the environment. RCDEH-ECP's acceptance of this document does not constitute a determination that "all appropriate inquiry" has been conducted within the meaning of the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (42 U. S. C § 9601(35)(B)).

Additionally, two inactive agriculture water wells were identified in the previous assessment conducted at this property. These wells must be located and destroyed in accordance with State and County guidelines prior to development.

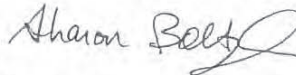
If you have any questions, please contact me at (951) 955-8982 or by email at ayreyes@rivcocha.org.

Sincerely,



Yvonne Reyes, REHS
Environmental Health Specialist IV

Reviewed by:



Digitally signed by Sharon
Boltinghouse
Date: 2012.07.23 20:33:07 -07'00'

Sharon Boltinghouse, P.G.
Associate Public Health Professional Geologist

cc: Brad Burke, Competitive Edge Development, LLC, bradb@compedgedev.com

**PRELIMINARY ENVIRONMENTAL
ASSESSMENT REPORT
PROPOSED SANTA ROSA ACADEMY
27587 LA PIEDRA ROAD
MENIFEE, CALIFORNIA 92584**

Prepared For:

Santa Rosa Academy
c/o Competitive Edge Development, LLC
27250 Via Industria, Suite B
Temecula, California 92590

Converse Project No. 12-16-115-02

June 12, 2012

Prepared By:

Converse Consultants
10391 Corporate Drive
Redlands, California 92374
(909) 796-0544



Converse Consultants

Geotechnical Engineering, Environmental and Groundwater Science, Inspection and Testing Services

June 12, 2012

Santa Rosa Academy
c/o Mr. Bradley A. Burke, Partner
Competitive Edge Development, LLC
27250 Via Industria, Suite B
Temecula, California 92590

Subject: PRELIMINARY ENVIRONMENTAL ASSESSMENT REPORT
Proposed Santa Rosa Academy
27587 La Piedra Road
Menifee, California 92584
APN: 360-110-010
Converse Project No. 12-16-115-02

Mr. Burke:

Converse Consultants (Converse) has prepared this Preliminary Environmental Assessment (PEA) Report documenting the results of a PEA conducted at the subject property (Site). This PEA Report incorporates responses to comments by the Riverside County Department of Environmental Health from its review of advance submittals of PEA Report portions.

We appreciate the opportunity to be of continued service to Santa Rosa Academy. If you should have any questions or comments regarding the contents of this PEA Report, please contact either Duncan Walker or Scott Nunes at (909) 796-0544.

CONVERSE CONSULTANTS

Duncan Walker, PG
Senior Geologist

Scott M. Nunes, CHMM, REA
Senior Manager

Norman S. Eke
Managing Officer

Dist.: 3/Addressee
1/Ms. Sharon Boltinghouse, Riverside County Department of Environmental Health

DW/SMN/NSE

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EXECUTIVE SUMMARY

This Preliminary Environmental Assessment (**PEA**) Report documents the results of a PEA conducted for the Proposed Santa Rosa Academy (**SRA**), a charter school to be located at 27587 La Piedra Road, City of Menifee, Riverside County, California (**Site**). This PEA Report incorporates responses to comments by the Riverside County Department of Environmental Health (**RCDEH**) from its review of advance submittals of PEA Report portions; the comments were contained in an email message dated June 4, 2012. The PEA was conducted by Converse Consultants (**Converse**) on behalf of the SRA.

In December 2004, Converse conducted a Phase I and Limited Phase II Environmental Site Assessment (**ESA**), the results of which are documented in a *Phase I and Limited Phase II ESA Report* dated December 21, 2004. In September 2011, Converse conducted a second Phase I ESA, the results of which are documented in a *Phase I ESA Report* dated September 8, 2011; the 2011 Phase I ESA updated the 2004 Phase I and Limited Phase II ESA. The 2004 Phase I and Limited Phase II ESA involved a larger 236-acre "Property". The 2011 Phase I ESA involved an approximately 168-acre "Property" and did not include a northeastern portion, which was part of the 2004 236-acre "Property". The Site consists of an approximate 25-acre parcel in the south-center of the 2011 168-acre "Property".

In the 2011 *Phase I ESA Report*, Converse identified the following Historical Recognized Environmental Condition (**HREC**) in connection with the Site: the Site, as well as the 2011 "Property" of which it is a part, was historically used for agriculture as early as 1949 until approximately 2005. Due to the findings of the 2004 *Phase I and Limited Phase II ESA Report*, the undocumented soil mound/piles on the "Property", which are not located on the Site, are not a Recognized Environmental Condition (**REC**). The 2011 *Phase I ESA Report* had the following conclusions and recommendations: The 2004 *Phase I and Limited Phase II ESA Report* included an evaluation of the potential presence of agricultural chemicals and to evaluate the undocumented fill mound/piles. Concentrations of agricultural chemicals and constituents in the undocumented fill mound/piles are less than regulatory and guidance levels. Further assessment does not appear warranted.

In March 2012, Converse conducted a second Limited Phase II ESA, the results of which are documented in a *Limited Phase II ESA Report* dated March 27, 2012. The 2012 Limited Phase II ESA involved only the Site, and was an initial assessment of potential past application of sewage sludge to the Site as fertilizer. The shallow soil samples from nine borings (B1 through B9) were composited in groups of three samples each. The resulting three composite soil samples were each analyzed for Total Threshold Limit Concentration (**TTLC**) metals. The TTLC metals analytical results for all metals excluding TTLC arsenic are less than California Human Health Screening Levels for Residential Land Use (**CHHSL-Rs**), and those for TTLC arsenic are less than the Department of Toxic Substances Control (**DTSC**) Soil Screening Level (**SSL**). The



2012 TTLC metals analytical results are part of this PEA and are discussed in subsequent PEA Report sections.

After preparation of the 2012 *Limited Phase II ESA Report*, the soil samples from the nine 2012 Limited Phase II ESA borings were additionally analyzed as an initial assessment of past agricultural use of the Site. Six composite soil samples were additionally analyzed for organochlorine pesticides (**OCPs**), and three discrete soil samples were additionally analyzed for TTLC arsenic. The 2012 OCPs analytical results are generally similar to those for the 2004 soil samples, and are all less than corresponding CHHSL-Rs for OCPs. The 2012 TTLC arsenic analytical results are all less than the DTSC SSL. The 2012 OCPs and TTLC arsenic analytical results are part of this PEA and are discussed in the PEA Report.

The objectives of this PEA are to evaluate the following:

- The HREC consisting of potential agricultural chemicals (OCPs and arsenic) in the soil associated with historic agricultural use of the Site; and
- An additional environmental concern consisting of potential past application of sewage sludge to the Site as fertilizer.

School District: Menifee Union School District

Site Designation: Proposed Santa Rosa Academy

Site Location: Parcel located at 27587 La Piedra Road, City of Menifee, Riverside County, California 92584

Site Description: Approximate 25-acre rectangular parcel
Historical agricultural activity conducted onsite: The Site is unoccupied vacant land.

Type of School Site: Proposed elementary, middle and high school

Type of School Proposed: Grade levels K-12

Intended Use of the Site: Entire Site to be used for proposed charter school.

Summary of Investigation

To evaluate the HREC and the other area of potential environmental concern, 45 soil borings (including three co-located duplicate borings) were advanced on the Site to depths ranging from approximately 0.5 to 3 feet below ground surface (**bgs**) using Geoprobe (direct-push) methods. These 45 soil borings include the following: the nine borings (B1 through B9) from the 2012 Limited Phase II ESA, 26 initial borings (B10 through B35) and ten stepout/stepdown borings. One or two soil samples were collected from each boring at approximately 0.5 foot to 3 feet bgs.

Selected discrete and/or composite soil samples were analyzed for OCPs, TTLC arsenic, TTLC metals and/or coliform bacteria. All soil sample analytical results for all OCPs and TTLC metals are less than corresponding CHHSL-Rs and/or DTSC SSLs,



including CHHSL-Rs and DTSC SSLs that were proportionally reduced for comparison to composite samples. There are no regulatory or guidance levels for coliform bacteria.

The analytical results for Total coliform (**Tc**) are negative or very small and for *E. coli* (**Ec**) are all negative for the initial 29 soil samples (including three duplicates), with one exception. Significant Tc & Ec analytical results were encountered in one initial soil sample (B24-0.5) from boring B24 in the north-center of the Site. The significant Tc & Ec analytical results in B24-0.5 prompted collection and analysis of a co-located duplicate to B24-0.5, as well as stepout and stepdown samples, to confirm and delineate the area of soil with significant Tc and Ec analytical results. The analytical results for the co-located duplicate to the initial sample, as well as for the stepout and stepdown samples indicate that the shallow soil with significant Tc and Ec analytical results extends approximately 2½ feet laterally from B24 and approximately 1½ feet deep.

The calculated risk index for the Site is 0.950 or 9.50×10^{-7} , based on the Site Maximum Concentrations for one OCP, 4,4'-dichlorodiphenyldichloroethylene (**DDE**), and seven metals, and the proportionally-reduced Method Detection Limits (**MDLs**) for the remaining OCPs and TTLC metals (excluding TTLC arsenic) which are Not Detected (**ND**) in all soil samples analyzed. The total Site risk index, 9.50×10^{-7} (equivalent to 0.950×10^{-6}), is less than the target risk goal of 1×10^{-6} . Accordingly, no further evaluation of the Site risk was conducted.

Conclusions

The objectives of this PEA, to determine whether current or past hazardous material management practices or waste management practices have resulted in a release or threatened release of hazardous materials, or whether naturally occurring hazardous materials are present, which pose a threat to children's health, children's learning abilities, public health or the environment, have been met. The following are conclusions from this PEA.

- A minor release of one OCP (DDE) has apparently occurred on the Site from past application of pesticides. This PEA has satisfactorily assessed this apparent minor release of OCPs.
- There was apparently no past application of sewage sludge on the Site as fertilizer, based on soil sample analytical results for TTLC metals and coliform bacteria.
- No naturally-occurring hazardous material is present on the Site.
- All soil sample analytical results for all analytes are less than corresponding CHHSL-Rs and/or DTSC SSLs, which have been proportionally reduced prior to comparison with composite sample analytical results.
- Significant initial Tc & Ec analytical results were encountered in one initial soil sample (B24-0.5) from boring B24 in the north-center of the Site. There are no regulatory or guidance levels for Tc and Ec.
- The significant Tc & Ec analytical results in B24-0.5 prompted collection and analysis of a co-located duplicate to B24-0.5, as well as stepout and stepdown



samples, to confirm and delineate the area of soil with initial significant Tc and Ec analytical results.

- The co-located duplicate sample to B24-0.5, as well as the stepout and stepdown samples, satisfactorily delineated the shallow soil with significant Tc and Ec analytical results. The sample analytical results indicate that it extends approximately 2½ feet laterally from B24 and approximately 1½ feet deep, and it comprises an estimated 1.1 cubic yards.
- The calculated total Site risk is 9.50×10^{-7} , using the Site Maximum Concentrations for DDE and seven TTLC metals and the MDLs for the other analytes (excluding TTLC arsenic) that are ND in all Site soil samples. TTLC arsenic was not included in the risk calculations because the DTSC SSL is not risk based, unlike the risk based CHHSL-Rs for the other analytes.
- The total Site risk, 9.50×10^{-7} (equivalent to 0.950×10^{-6}), is less than the target risk goal of 1×10^{-6} . Accordingly, no further evaluation of the Site risk was conducted.
- TTLC arsenic is ND in all Site soil samples, and the MDL for TTLC arsenic is less than the DTSC SSL, including proportionally-reduced DTSC SSLs for composite soil samples.

Recommendations

No Further Action (**NFA**) is recommended for the Site. This NFA recommendation is conditional on removal of the large mound of fill in the eastern portion of the Site, as well as a number of small fill piles in the northeast, prior to or concurrent with school development and construction.

In addition, Converse stated in the 2011 *Phase I ESA Report* that agricultural/water wells were identified to be historically present on the "Property". No evidence of these wells, if extant, was observed during field activities on the Site. If, however, one or more wells are found on the Site during school development and construction, then the well(s) should be properly abandoned in accordance with applicable local and state rules and regulations.



ABBREVIATIONS AND ACRONYMS

APN: Assessor's Parcel Number	PID: photoionization detector
bgs: below ground surface	PPE: personal protective equipment
Cal-EPA: California Environmental Protection Agency	ppm: parts per million
CH: chlorinated herbicide	PQL: Practical Quantitation Limit
CHHSL-R: California Human Health Screening Level for Residential Soil	QA: Quality Assurance
COC: Chemical of Concern	QA/QC: Quality Assurance/Quality Control
COPC: Chemical of Potential Concern	QAPP: Quality Assurance Project Plan
CSM: Conceptual Site Model	QC: Quality Control
CY: cubic yard	RA: Removal Action
DDE: 4,4'-dichlorodiphenyldichloroethylene	RAGS: Risk Assessment Guidance for Superfund
DOGGR: Department of Conservation, Division of Oil, Gas and Geothermal Resources	RAIS: Risk Assessment Information System
DTSC: Department of Toxic Substances Control	RAW: Removal Action Workplan
Ec: E. coli	RCRA-LQG: Resource Recovery and Conservation Act large quantity generator
EDR: Environmental Data Resources	RCRA-SQG: Resource Recovery and Conservation Act small quantity generator
EIR: Environmental Impact Report	RDL: Reporting Detection Limit
EMWD: Eastern Municipal Water District	REC: Recognized Environmental Condition
EPA: United States Environmental Protection Agency	RfC: reference concentration
EPC: Exposure Point Concentration	RfD: reference dose
ESA: Environmental Site Assessment	RPD: Relative Percent Difference
ESL: Environmental Screening Level	SARWQCB: Santa Ana Regional Water Quality Control Board
HASP: Health and Safety Plan	SCH: School Property Evaluation Program
HHSE: Human Health Screening Evaluation	SRA: Santa Rosa Academy
HREC: Historical Recognized Environmental Condition	SSL: DTSC Soil Screening Level
IDW: investigation-derived waste	STLC: Soluble Threshold Limit Concentration
LCS: laboratory control spike	SWRCY: State Wide Recycling Facility
LUST: leaking underground storage tank	TPH: total petroleum hydrocarbons
MDL: Method Detection Limit	Tc: Total coliform
mg/kg: milligrams per kilogram	TC: Maximum Concentrations of Contaminants for the Toxicity Characteristic
mg/L: milligrams per liter	TTLC: Total Threshold Limit Concentration
MPN/g: most probable number per gram	UCL: Upper Confidence Level
MS: matrix spike	USA: Underground Service Alert
MSD: matrix spike duplicate	USDA: United States Department of Agriculture
MSL: Mean Sea Level	USGS: United States Geologic Survey
MSSL: Maximum Soil Screening Level	UST: underground storage tank
NAAQS: National Ambient Air Quality Standard	VOCs: volatile organic compounds
ND: not detected	WRCC: Western Regional Climate Center
NFA: No Further Action	
OCP: organochlorine pesticide	
OEHHA: Office of Environmental Health Hazard Assessment	
OPP: organophosphorous pesticide	
ORNL: Oakridge National Laboratory	
OSFM: Office of the State Fire Marshall	
PCBs: polychlorinated biphenyls	
pCi/L: picocuries per liter of air	
PEA: Preliminary Environmental Assessment	
PG: California Professional Geologist	



1.0 INTRODUCTION

1.1 Introduction

This Preliminary Environmental Assessment (**PEA**) Report documents the results of a PEA conducted for the Proposed Santa Rosa Academy, a charter school to be located at 27587 La Piedra Road, City of Menifee, Riverside County, California (**Site**). This PEA Report incorporates responses to comments by the Riverside County Department of Environmental Health (**RCDEH**) from its review of advance submittals of PEA Report portions; the comments were contained in an email message dated June 4, 2012.

The PEA was conducted by Converse Consultants (**Converse**) on behalf of the Santa Rosa Academy (**SRA**) in general accordance with the following:

- *Preliminary Endangerment Assessment Guidance Manual*, Department of Toxic Substances Control (**DTSC**), January 1994, second printing June 1999.
- *Interim Guidance for Sampling Agricultural Properties (Third Revision)*, DTSC, August 7, 2008.
- *Interim Guidance, Evaluation of School Sites with Potential Soil Contamination as a Result of Lead from Lead-Based Paint, Organochlorine Pesticides from Termiticides and Polychlorinated Biphenyls from Electrical Transformers*, DTSC, Revised June 9, 2006.
- *Phase I and Limited Phase II Environmental Site Assessment (ESA) Report*, Converse, December 21, 2004.
- *Phase I ESA Report*, Converse, September 8, 2011.
- *Limited Phase II ESA Report*, Converse, March 27, 2012.

School District: Menifee Union School District

Site Designation: Proposed Santa Rosa Academy

SRA Contact: Ms. Laura Badillo
Executive Director/Principal
Santa Rosa Academy
28237 La Piedra Road
Menifee, CA 92584
Phone (951) 672-2400, Fax (951) 672-6060
lbadillo@santarosaacademy.org

Site Location: 27587 La Piedra Road, City of Menifee, Riverside County, California 92584

Type of School Site: Proposed elementary, middle and high school

Type of School Proposed: Grade levels K-12

Intended Use of the Site: Entire Site to be used for proposed charter school.

Disposition of Existing Structures: The Site is vacant.

Water Supply Source: Eastern Municipal Water District (**EMWD**)



1.2 PEA Report Organization

This PEA Report is organized as follows:

- Section 1.0 is the Introduction, including the Purpose and Scope of Work for the PEA.
- Section 2.0 discusses the Site Description, including the Site History and Previous Assessments.
- Section 3.0 discusses RECs and Chemicals of Potential Concern (**COPCs**).
- Section 4.0 discusses the Environmental Setting.
- Section 5.0 presents the Conceptual Site Model (**CSM**).
- Section 6.0 presents Data Gaps.
- Section 7.0 is a Summary of Sampling Activities.
- Section 8.0 discusses Quality Assurance and Quality Control (**QA/QC**) program.
- Section 9.0 discusses Health and Safety.
- Section 10.0 is an Environmental Migration Screening Evaluation.
- Section 11.0 discusses the Human Health Screening Evaluation (**HHSE**).
- Section 12.0 discusses Public Participation.
- Section 13.0 discusses Compliance with Additional Regulatory Requirements.
- Section 14.0 presents Findings.
- Section 15.0 presents Conclusions and Recommendations.
- Section 16.0 lists the References cited in this PEA Report.
- Section 17.0 presents the Signature and Qualifications of the Responsible Professional.

A Quality Assurance Project Plan (**QAPP**) is included in Appendix A. A project Health and Safety Plan (**HASP**) is included in Appendix B. Copies of the 2004 *Phase I and Limited Phase II ESA Report*, 2011 *Phase I ESA Report*, and 2012 *Limited Phase II ESA Report* are included on CD in Appendix C. Laboratory reports and chain of custody documentation for soil sample analyses are included in Appendix D. A Data Validation Memorandum is included in Appendix E.

1.3 Purpose

The RCDEH has required that a PEA be conducted and a PEA Report be prepared for the proposed Site in general accordance with DTSC procedures. The objective of the PEA is to determine whether current or past hazardous material management practices or waste management practices have resulted in a release or threatened release of hazardous materials, or whether naturally occurring hazardous materials are present, which pose a threat to children's health, children's learning abilities, public health or the environment. The objectives of the PEA include:



- Evaluating historical information for indications of the past use, storage, disposal, or release of hazardous wastes/substances at the Site by evaluating existing data and gathering additional data as needed.
- Establishing, through a field sampling and analysis program, the nature of hazardous wastes/substances that may be present in soil, surface water, or groundwater at the Site, their concentration and general extent. The PEA assessment is typically not designed to fully characterize the lateral and vertical extent of contamination at the Site.
- Estimating the potential threat to public health and/or the environment posed by hazardous constituents at the Site using a residential land use scenario.

Based on information developed during the PEA, the RCDEH will make an informed decision regarding potential risks posed by the Site. Possible outcomes of the RCDEH's decision include the potential requirement for further investigation through either one or a combination of the following:

- Initiating the Removal Action (**RA**) process if the Site is found to be significantly impacted by hazardous substances release(s);
- Initiating an expedited response action; or
- Issuing a "No Further Action" (**NFA**) finding if the Site is found not to be significantly impacted and risks to human health and the environment are found to be within acceptable levels based on the PEA screening level risk assessment.

1.4 Summary of Previous Environmental Site Assessments

1.4.1 2004 Phase I and Limited Phase II ESA

In December 2004, Converse conducted a Phase I and Limited Phase II ESA, the results of which are documented in the *2004 Phase I and Limited Phase II ESA Report* (Converse, December 21, 2004). The "Property" referenced in 2004 Phase I and Limited Phase II ESA consisted of a 236-acre agricultural parcel. The Site occupies the south-center of this "Property". In the *2004 Phase I and Limited Phase II ESA Report*, Converse identified the following three Recognized Environmental Conditions (**RECs**) in connection with this "Property":

- *Historical information indicates that the "Property" appears to have been occupied primarily by agricultural fields from at least 1949 until the present. Agricultural chemical residues may potentially be found in the soil. Further assessment (soil sampling) has been completed to evaluate subsurface conditions due to potential agricultural runoff as noted below.*
- *The western portion of the "Property" was observed to be covered with several undocumented fill piles and one large fill mound. Further assessment (soil sampling) has been completed to evaluate the undocumented fill piles/mound as noted below.*



- *Due to the historical use of the "Property" for agriculture, there is a potential that asbestos-containing transite irrigation lines may exist underground. Converse has completed exploratory trenching as noted below.*

The 2004 Limited Phase II ESA consisted of advancing and soil sampling 19 borings using Geoprobe (direct push) methods to assess the first two RECs. Sixteen of the borings were advanced and soil sampled to assess the former agricultural use. The remaining three borings were advanced and soil sampled to assess the undocumented fill piles and large fill mound.

The third REC, the potential for subsurface transite (asbestos cement) irrigation pipes, was not part of the 2004 Limited Phase II ESA. Four trenches were excavated across "Property" and the east adjacent property, and the pipes observed in the trenches appeared to be either concrete or metal.

Converse concluded the following in the 2004 *Phase I and Limited Phase II ESA Report*: *Based on the results of the Limited Phase II Environmental Site Assessment, the concentrations of agricultural chemical residues in the soil of the "Property" appear to be below regulatory levels. In addition, the concentrations of petroleum hydrocarbons and metals within the undocumented fill mound also appear to be below regulatory levels. Exploratory trenching activities indicated that the composition of subsurface irrigation pipelines appeared to be either concrete or metal. No asbestos-containing transite irrigation lines were detected. Therefore, Converse concludes that no further assessment of the "Property" is warranted at this time.*

The following is a summary of the 2004 Limited Phase II ESA. The 2004 Limited Phase II ESA consisted of advancing and soil sampling 19 borings using Geoprobe (direct push) methods to assess the first two RECs (Figure 6). The discussion of the soil sample analytical results below and in Tables 5 through 7 provides a comparison of the analytical results of the 2004 soil samples to current regulatory/guidance levels.

Sixteen of the 19 borings (AG-1A through AG-4D) were advanced and soil sampled to assess the former agricultural use across the 2004 236-acre "Property". Two of these 16 borings (AG-3A and AG-3B) were located on the Site. Four of the 16 agricultural borings (AG-4A through AG-4D) were located on northeastern portion of the 2004 236-acre "Property", which is not part of the approximately 168-acre "Property" that was assessed during 2011 Phase I ESA. The remaining three borings (GP-1 through GP-3) were advanced and soil sampled to assess the undocumented fill piles and large fill mound which are located on northwestern portion of the 2011 168-acre "Property" but are not on the Site.

The 32 soil samples collected from the 16 agricultural borings were composited (combined) by the laboratory prior to analysis in groups of four samples each from either approximately 0.5 or 2 feet below ground surface (**bgs**). The resulting eight composite samples were each analyzed for organochlorine pesticides (**OCPs**), organophosphorous pesticides (**OPPs**), chlorinated herbicides (**CHs**), and total



petroleum hydrocarbons (**TPH**) as gasoline, kerosene, diesel and motor oil. The sample analytical results for the eight 2004 composite soil samples from the 16 agricultural borings are summarized below and in Table 5.

- 4,4'-dichlorodiphenyldichloroethylene (**DDE**) concentrations range from 0.001 to 0.015 milligrams per kilogram (**mg/kg**) in six of the eight composite samples. The DDE concentration is 0.002 mg/kg in the AG-3A/3B/3C/3D-0.5, the 0.5-foot composite including the soil samples from the two borings on the Site. DDE is not detected (**ND**) above a 0.001-mg/kg laboratory Practical Quantification Limit (**PQL**) in the AG-3A/3B/3C/3D-2, the 2-foot composite including the soil samples from the two borings on the Site.
- All other OCPs, all OPPs, all CHs and all TPH analytical results are ND above PQLs in all eight composite samples.
- All of the OCPs and CHs analytical results are less than corresponding current California Human Health Screening Levels for Residential Land Use (**CHHSL-Rs**) for all eight composite samples. There are no CHHSL-Rs for OPPs.
- All of the TPH analytical results are less than corresponding current Los Angeles Regional Water Quality Control Board Maximum Soil Screening Levels (**MSSLs**) and San Francisco Bay Regional Water Quality Control Board Environmental Screening Levels (**ESLs**) for all eight composite samples.

Twelve soil samples (four from each boring) were collected from the three fill pile/mound borings at approximately 2, 5, 10 and 15 feet bgs. Each of the 12 soil samples was analyzed for TPH and the 17 Total Threshold Limit Concentration (**TTLC**) metals. The sample analytical results for the 2004 soil samples from the three fill pile/mound borings are summarized below and in Tables 6 and 7.

- The TPH motor oil concentration is 214 mg/kg in one of the 12 samples. All other TPH analytical results are ND above PQLs in all 12 samples. All of these TPH analytical results are less than corresponding current MSSLs and ESLs for all 12 samples.
- TTLC arsenic concentrations range from 0.885 to 8.53 mg/kg in 11 of the 12 samples, and TTLC arsenic is ND above the PQL in the remaining sample. All of these TTLC arsenic analytical results are less than DTSC Soil Screening Level (**SSL**) of 12 mg/kg and are considered background levels.
- Concentrations of ten of the remaining 16 TTLC metals range from 0.783 to 160 mg/kg in the 12 samples, and the remaining six TTLC metals are ND above PQLs. All of these TTLC metals analytical results are less than corresponding current CHHSL-Rs for all 12 samples.

The following are concluded based on the analytical results of the 2004 Limited Phase II ESA soil samples:

- The concentrations of agricultural chemical residues in the soil on the "Property" (including the Site) are less than regulatory/guidance levels.



- The concentrations of TPH and metals within the undocumented fill mound/piles in the northwest (not involving the Site) are also less than regulatory/guidance levels.

1.4.2 2011 Phase I ESA

In 2011, Converse conducted a second Phase I ESA, the results of which are documented in a *Phase I ESA Report* dated September 8, 2011; the 2011 Phase I ESA updated the 2004 Phase I and Limited Phase II ESA. The 2011 Phase I ESA involved a smaller approximately 168-acre "Property" and did not include a northeastern portion, which was part of the 2004 236-acre "Property" (Figure 6). The Site is an approximate 25-acre parcel in the south-center of the 2011 168-acre "Property".

In the 2011 *Phase I ESA Report*, Converse identified no RECs and the following Historical Recognized Environmental Condition (**HREC**) in connection with this "Property": the Site, as well as the 2011 "Property" of which it is a part, was historically used for agriculture as early as 1949 until at least 2005. Due to the findings of the 2004 *Phase I and Limited Phase II ESA Report*, the undocumented soil mound/piles on the "Property", which are not located on the Site, are not a REC. The 2011 *Phase I ESA Report* had the following conclusions and recommendations: The 2004 *Phase I and Limited Phase II ESA Report* included a Limited Phase II ESA to evaluate the potential presence of agricultural chemicals and to evaluate the undocumented fill mound/piles. Concentrations of agricultural chemicals and constituents in the undocumented fill mound/piles are less than regulatory and guidance levels. Further assessment does not appear warranted.

1.4.3 2012 Limited Phase II ESA

Converse conducted a second Limited Phase II ESA, the results of which are documented in a *Limited Phase II ESA Report* dated March 27, 2012. The 2012 Limited Phase II ESA involved only the Site, and was an initial assessment of potential past application of sewage sludge to the Site as fertilizer. The shallow (0.5-foot) soil samples from nine borings (B1 through B9) were composited in groups of three samples each. The resulting three composite soil samples were each analyzed for TTLC metals using EPA Methods 6010B/7471A. The TTLC metals analytical results for all metals excluding TTLC arsenic are less than CHHSL-Rs and those for TTLC arsenic less than the DTSC SSL. The 2012 TTLC metals analytical results are part of this PEA and are discussed in Section 7, as well as other PEA Report sections.

After preparation of the 2012 *Limited Phase II ESA Report*, the soil samples from the nine 2012 Limited Phase II ESA borings were additionally analyzed as an initial assessment of past agricultural use of the Site. Six composite soil samples were additionally analyzed for OCPs, and three discrete soil samples were additionally analyzed for TTLC arsenic. The 2012 OCPs analytical results are generally similar to those for the 2004 soil samples, and are all less than corresponding CHHSL-Rs for OCPs. The 2012 TTLC arsenic analytical results are all less than the DTSC SSL. The



2012 OCPs and TTLC arsenic analytical results are part of this PEA and are discussed in subsequent PEA Report sections.

1.5 Objectives and Scope of Work

The objectives and scope of work for the PEA were agreed upon by Converse and the RCDEH during a meeting at its office on May 8, 2012 and confirmed during an email message from Converse to the RCDEH the same day.

The objectives of the PEA are to evaluate the following:

- The HREC consisting of potential agricultural chemicals (OCPs and arsenic) in Site soil associated with historic agricultural use of the Site; and
- An additional environmental concern consisting of potential past application of sewage sludge to the Site as fertilizer.

To evaluate the HREC and the other area of potential environmental concern, the scope of work consisted of advancing and sampling 35 soil borings (B1 through B35) on the Site to depths ranging from approximately 0.5 to 3 feet below ground surface (**bgs**) using Geoprobe (direct-push) methods. These 35 borings include the nine borings from the 2012 Limited Phase II ESA. Two soil samples were collected from each boring at approximately 0.5 and 3 feet bgs. Selected discrete and/or composite soil samples were analyzed for OCPs, TTLC arsenic, TTLC metals and/or coliform bacteria.

The scope of work for the PEA also included additional (stepout/stepdown) soil borings and sampling to delineate significant coliform analytical results associated with one boring location (B24). The delineation consisted of advancing and sampling ten stepout and stepdown soil borings (including three co-located duplicate soil borings) adjacent to B24 to depths of approximately 0.5 or 2 feet bgs using a hand auger. One or two soil samples were collected from each stepout/stepdown boring at depths ranging from approximately 0.5 to 2 feet bgs. Ten stepout/stepdown discrete soil samples (including two co-located field duplicates) were each analyzed for coliform bacteria.



2.0 SITE DESCRIPTION

Site Name

The name for the Site is the proposed Santa Rosa Academy.

Previous Site Names

The Site has no previous names.

U.S. Environmental Protection Agency Identification Number

Review of selected regulatory agency databases did not reveal records of any EPA Identification Numbers for the Site.

ENVIROSTOR Database Number

Review of DTSC records did not reveal any ENVIROSTOR Database Number for the Site.

Site Addresses

The Site address is 27587 La Piedra Road, Menifee, California 92584. The Site is located southeast of the intersection of La Piedra and Sherman Roads, City of Menifee, Riverside County, California (Figure 2).

School District

The Site is in the Menifee Union School District.

Parcel Size

The Site comprises approximately 25 acres.

Assessor's Parcel Numbers and Maps

The Site was formerly comprised of two Assessor's Parcel Numbers (**APNs**), which were: 360-110-010 and Por. 360-110-011 (See Figure 3, Assessor's Parcel Map). The purchase of the Site on June 5, 2012 by SRA, LLC involved a lot line adjustment which consolidated the Site under one APN, 360-110-010. The current legal description of the Site is Parcel A of Lot Line Adjustment 10-002 Menifee, California.

Township, Range, Section and Meridian

Based on a review of the USGS 7½-minute Topographic Series, Romoland, California Quadrangle Map, the Site is located in Section 3, Township 6 South, Range 3 West, San Bernardino Base and Meridian. Figure 1 is based on a portion of the USGS 7½-minute Topographic Series, Romoland, California Quadrangle Map.



Land Use and Zoning

According to the City of Menifee, Planning Department, the current General Plan Land Use is Mixed Use (MU) and the Zoning is Specific Plan (S-P) No. 2009-069 (Menifee Town Center Specific Plan), Planning Area 5.

Geographic Coordinates (Northeast Corner)

Longitude: 117°10' 35" W
Latitude: 33° 40' 39" N

State Senate and Assembly Districts

The Site is in State Senate District 37 and State Assembly District 64.

Current Site Improvements

There are no onsite improvements and apparently never have been any onsite improvements.

2.1 Physical and Environmental Characteristics

2.1.1 Site Topography

Ground surface elevations on the Site range from approximately 1,434 to 1,442 feet above Mean Sea Level (**MSL**), with surface topography sloping gently towards the east (USGS Topographic Map, Romoland, California Quadrangle, 1976, Photorevised 1979).

2.1.2 Site Geology and Soil Types

The Site and vicinity are underlain by alluvium (Quaternary geologic age), which are unconsolidated to semi-consolidated and include lake playa, and stream terrace deposits, (*Geologic Atlas of California Map No. 019, Santa Ana Sheet*, California Geological Survey, 1965).

Soil on the Site is classified as well drained loamy clay from the Yokohl series (United States Department of Agriculture (**USDA**) Soil Conservation Service STATSGO data, 1974, provided by Environmental Data Resources (**EDR**), 2011 in Appendix D of the 2011 *Phase I ESA Report*).

The onsite surface soil, as well as the shallow soil observed in the PEA soil borings, generally consists of brown silty, fine to medium grained sands and fine sandy silts with varying small amounts of clay (SM).

2.1.3 Site Hydrogeological Setting

The Site is located in the southern part of the West San Jacinto Groundwater Basin. The primary producing aquifer of the Chino Groundwater Basin is within the Upper



Pleistocene alluvium. The approximate direction of regional groundwater flow is toward the east-southeast, based on groundwater elevation data in *West San Jacinto Groundwater Basin Management Plan, 2010 Annual Report* (EMWD, 2010).

According to the Western Municipal Water District, Cooperative Well Measuring Program, Fall 2006 Data, the nearest active well to the Site is located approximately 1¼-mile to the east of the Site (Well ID#06S/03W-02A001S). Depth to groundwater at this well was recorded at 100.8 feet bgs in February 2008.

2.1.4 Site Climatologic Setting

Moderate temperatures with comfortable humidity and limited precipitation characterize the climate in Menifee. Temperatures are normally mild, with rare extremes above 100 °F or below freezing. Average annual precipitation is approximately 11.4 inches, of which approximately 9.6 inches occur during December through April.

2.1.5 Regional Radon Information

The Site is located within Riverside County, which has an average indoor radon level of 1 picocurie per liter of air (pCi/L). The California Department of Health Services has records of three indoor radon measurements in Menifee, all of which are less than 4 pCi/L. Indoor radon levels between 4 and 20 pCi/L are considered to be above average.

2.2 Site History

2.2.1 Historic Land Uses

In summary, review of historic topographic maps and aerial photographs during the Phase I ESAs indicate the following:

- By 1949, the "Property", which includes the Site, was an agricultural field.
- By approximately 2005, agriculture had ceased on the "Property", which includes the Site, which was now a fallow field.

Topographic Map Review

Review of the USGS topographic map (1967, photorevised 1976) as part of the 2011 Phase I ESA indicates the following. The "Property" (including the Site) appears to be undeveloped land, and the surrounding area also appears to be primarily undeveloped land. Newport Road is depicted north of the "Property", Holland Road is depicted to the south, and Haun Road is depicted to the east.

Aerial Photograph Review

Review of 1949, 1962, 1980, 1984, 1990, 1995, 2000, and 2005 aerial photographs from EDR for the Site and vicinity as part of the Phase I indicated the following:



1949 and 1962 Aerial Photographs: The "Property" (including the Site) appears to be agricultural fields. To the north is Newport Road, followed by agricultural fields. To the south and west are agricultural fields. To the east is Haun Road, followed by agricultural fields. The surrounding area appears to be agricultural fields with scattered residences.

1980 Aerial Photograph: The "Property" (including the Site) appears to be agricultural fields. Scattered residences are located southwest of the "Property" (southwest of La Piedra and Roads). Residences are under construction across Newport Road north of the "Property". Scattered commercial structures and residences are located across Holland Road south of the "Property". Interstate 215 is visible east of the "Property".

1984 Aerial Photograph: The "Property" (including the Site) appears to be agricultural fields. The surrounding area appears similar to the 1980 aerial photograph, except for increasing residential and commercial land uses and decreasing agricultural land uses and undeveloped land.

1990 Aerial Photograph: The "Property" (including the Site) appears to be agricultural fields. The surrounding area generally appears similar to the 1984 aerial photograph, except for continued increasing residential and commercial land uses and decreasing agricultural land uses and undeveloped land.

1995 Aerial Photograph: The "Property" (including the Site) appears to be agricultural fields. Commercial properties appear to have been developed across Newport Road north of the "Property". Otherwise, the surrounding area appears similar to the 1990 aerial photograph, except for continued increasing residential and commercial land uses and decreasing agricultural land uses and undeveloped land.

2000 Aerial Photograph: The "Property" (including the Site) appears to be agricultural fields. The surrounding area appears similar to the 1995 aerial photograph, except for continued increasing residential and commercial land uses and decreasing agricultural land uses and undeveloped land.

2005 Aerial Photograph: The "Property" (including the Site) appears to be agricultural fields. The surrounding area appears similar to the 2000 aerial photograph, except for continued increasing residential and commercial land uses and decreasing agricultural land uses and undeveloped land.

Sanborn Map Review

Historical Sanborn Fire Insurance (Sanborn) map coverage of the Site was requested from EDR. According to EDR, there is no Sanborn coverage of the "Property", which includes the Site.

2.2.2 Records Review

Building Department Review

According to the City of Menifee Building and Safety Department, there are no building permits for the "Property", which includes the Site.



Agency File Review

Information was requested from the following regulatory agencies as part of the 2011 Phase I ESA.

- Prior to preparation of the 2011 *Phase I ESA Report*, no information was received from the RCDEH regarding the "Property", which includes the Site. No information was received subsequently from the RCDEH regarding the "Property".
- No information was on file with the DTSC regarding the "Property", which includes the Site.
- No information was on file with the Santa Ana Regional Water Quality Control Board (**SARWQCB**) regarding the Site the "Property", which includes the Site.
- No information was on file with the South Coast Air Quality Management District (**SCAQMD**) regarding the "Property", which includes the Site.
- There are no underground pipelines that are within Office of the State Fire Marshall (**OSFM**), Pipeline Safety Division jurisdiction on or adjacent to the "Property", which includes the Site.
- There are no oil or gas wells are located on the "Property" (which includes the Site) or on adjacent properties listed on the California Department of Conservation, Division of Oil, Gas and Geothermal Resources (**DOGGR**) on-line database.

Owner/Operator Records Review

Owner/operator records were not available for review as a part of the 2011 Phase I ESA record review. No documents were obtained from the owner/operators of the "Property" during the PEA process.

2.2.3 Interviews

Property Owners

As part of the 2011 Phase I ESA, Converse provided a *Client/User/Owner Provided Information* form (e.g. owner interview) to the owner, Stark Menifee Land, LLC. Prior to preparation of the 2011 *Phase I ESA Report*, the completed *Client/User/Owner Provided Information* form was not received by Converse, and it has not been received subsequently.

Tenants/Occupants

There are no tenants or occupants at the "Property", which includes the Site.

State or Local Government Officials

As part of the 2011 Phase I ESA, Converse conducted an interview with Ms. August Lucas of the SARWQCB. According to Ms. Lucas, there are no records for "Property", which includes the Site. No SARWQCB records were obtained during the PEA.



2.2.4 Site Ownership

SRA, LLC acquired ownership of the Site from Stark Menifee Land, LLC on June 5, 2012. Stark Menifee Land, LLC remains the owner of the remainder of the 2011 168-acre "Property".

2.2.5 Facility Ownership/Operators

The Site is unoccupied, and there are no facilities on the Site.

2.2.6 Business Type

The Site is unoccupied, there are no business activities on the Site, which is part of a fallow agricultural field.

2.2.7 Years of Operation

The Site, and the "Property" of which it is a part, was a large agricultural field from at least 1949 until approximately 2005; the agricultural field has been fallow subsequently.

2.2.8 Business/Manufacturing Activities

The Site is unoccupied, there are no business/manufacturing activities on the Site. The nearest business activity is a shopping center located along the eastern side of Haun Road, approximately 0.1 mile northeast of the Site.

2.3 Surrounding Land Uses

At the time of the 2011 Phase I ESA site reconnaissance on September 6, 2011, surrounding area was observed to be mixture of residential, commercial and vacant land uses. The surrounding land uses are as follows:

- | | |
|--------|--|
| North: | La Piedra Road (unimproved), beyond which is a fallow agricultural field (part of the "Property"). |
| South: | Fallow agricultural field (part of the "Property"), beyond which is . |
| East: | La Paloma Wash, beyond which is Haun Road, followed by a fallow agricultural field. To the northeast of La Piedra and Haun Roads is a shopping center. |
| West: | Sherman Road (unimproved), beyond which are single-family residences. |

2.4 Site and Adjacent Site Environmental Information



The 2011 Phase I ESA Report contains the following information regarding the Site and adjacent sites. The Site is not identified on the School Property Evaluation Program (SCH) and ENVIROSTOR databases. The Site was not identified on any of the other lists in the EDR report (Appendix D of the 2011 *Phase I ESA Report*). The EDR report lists two offsite locations of potential environmental concern, which are across Haun Road to northeast of the larger "Property" for which the Phase I ESA was conducted; these two locations are actually ¼ mile or more from the Site.

One of these two offsite locations is a service station with three registered in-use underground storage tanks (USTs), which is not on the leaking UST (LUST) database. The other is a Resource Recovery and Conservation Act small and large quantity generator (RCRA-SQG and RCRA-LQG, respectively) with no reported spills or violations. Two other offsite locations of potential environmental concern identified by EDR within a maximum one-mile radius from the "Property" are a California Environmental Protection Agency (Cal-EPA) State Wide Recycling Facility (SWRCY) site and a DRYCLEANERS site. The potential for environmental impact to the "Property" from each of these four offsite locations of potential environmental concern appear to be low due to one or more of the following: type of regulatory listing; not listed in the LUST database, no spills or violations reported, location relative to the inferred regional groundwater flow direction, and/or distance from the "Property".

In the 2011 *Phase I ESA Report*, Converse identified one HREC in connection with the Site, past agricultural use of the Site. Converse subsequently identified one other potential environmental concern, potential past application of sewage sludge on the Site as fertilizer. The HREC and other potential environmental concern are discussed further in Sections 1.4 and 3.1.

Site Reconnaissance Results

On September 6, 2011, Converse conducted the Phase I ESA reconnaissance of the Site to observe current "Property" (and Site) use and physical features regarding the "Property" (and the Site), as well as to identify environmental conditions. Site reconnaissance observations, which are generally consistent with observations during the recent PEA fieldwork, of specific physical features identified in Section 2.3.2 of the *PEA Guidance Manual* are summarized in the table below.

Physical Feature	Observations
Site boundaries	The Site is bordered to the north by La Piedra Road (unimproved), to the west by Sherman Road (unimproved), and to the east by La Paloma Wash and south by a fallow agricultural field.
Locations and boundaries of all onsite operations (present and past)	Locations and boundaries of onsite operations (present and past) were generally visible during the site reconnaissance.



Physical Feature	Observations
Foundations of former structures	Not observed during the site reconnaissance.
Storage tanks and storage areas	Not observed during the site reconnaissance.
Odors	Not observed during the site reconnaissance.
Pools of liquid	Not observed during the site reconnaissance.
Electrical or hydraulic equipment known or likely to contain polychlorinated biphenyls (PCBs)	Not observed during the site reconnaissance.
Unidentified substance containers (including empty drum storage)	Not observed during the site reconnaissance.
Stained soil and pavement, corrosion, and degradation of floors and walls	Not observed during the site reconnaissance.
Drains and sumps	Not observed during the site reconnaissance.
Pits, ponds, and lagoons	Not observed during the site reconnaissance.
Surface drainage pathways	Not observed during the site reconnaissance.
Stressed vegetation (from other than from insufficient water)	Not observed during the site reconnaissance.
Solid waste and wastewater	Not observed during the site reconnaissance.
Wells (including dry wells, irrigation well, injection wells)	Not observed during the site reconnaissance.
Septic systems	Not observed during the site reconnaissance.



3.0 RECOGNIZED ENVIRONMENTAL CONDITIONS

3.1 *Recognized Environmental Conditions*

In the 2011 *Phase I ESA Report*, Converse identified no RECs and the following one HREC in connection with the Site: the Site, as well as the larger 2011 "Property" of which it is a part, was historically used for agriculture as early as 1949 until approximately 2000. Due to the findings of the 2004 Phase I and Limited Phase II ESA, the undocumented soil mound/piles on the "Property", which are not located on the Site, are not a REC:

In addition to the above HREC, Converse identified an additional environmental concern consisting of potential past application of sewage sludge to the Site as fertilizer.

3.2 *Chemicals of Potential Concern*

The available information, including the results of the PEA investigation, indicates that the following are COPCs on the Site:

- OCPs from past agricultural uses,
- Arsenic from past agricultural uses, and
- TTLC metals associated with potential past application of sewage sludge as fertilizer; coliform bacteria (not a COPC) was also evaluated as a possible indicator of potential past sewage sludge application.



4.0 ENVIRONMENTAL SETTING

4.1 *Factors Related to Soil Pathways*

Topography

The topography of the Site is essentially level, with a very gentle easterly slope. The topography of the surrounding area is nearly level and relatively smooth, with a very gentle northerly to northwesterly regional slope that averages less than one percent). This general topography extends at least one mile in all directions around the Site. The nearest significant topographic features are Bell Mountain (approximately 1.8 miles southeast of the Site), Sedco Hills (approximately 2.9 miles southwest of the Site), and Railroad Canyon Reservoir (approximately 3.3 miles west of the Site).

Evidence of Environmental Impacts

During the 2011 Phase I ESA site reconnaissance on September 6, 2011, no evidence of environmental impacts (e.g., stained soil, stressed vegetation, dead or ill wildlife, etc.) was observed on the "Property" (and the Site). No evidence of environmental impacts was observed on the Site during the recent PEA fieldwork during March through May 2012. The Site vegetation consists of primarily of annual grasses/weeds over most of the Site that are plowed several times a year. There are also some small shrubs/bushes in areas that are not plowed. There are no trees on the Site.

Predominant Soil Groups

The onsite surface soil, as well as the shallow soil observed in the PEA soil borings, generally consists of brown silty, fine to medium grained sands and fine sandy silts with varying small amounts of clay (SM).

There is a large apparent fill mound in the east-center of the Site, and several small soil piles to the northwest of the mound. The fill mound and soil piles will be removed from the Site prior to or concurrent with rough grading of the charter school site. It is also possible that there may have been minor grading incident to the past previous agricultural uses of the Site. It is probable that any fill resulting from past minor grading was derived from other areas of the Site. No evidence of artificial fill was observed in the PEA soil borings.

Surface Slopes

The Site is essentially level, with a very gentle easterly slope. The regional topography of the surrounding area is nearly level and relatively smooth, with a very gentle northerly to northwesterly regional slope that averages less than one percent). This regional topography extends at least one mile in all directions around the Site.

Site Access

There is a chain link fence along the eastern side of the Site, which separates it from La Paloma Wash. The northern, western and southern sides of the Site are unfenced.



Measures to Contain or Prevent Direct Contact with Onsite Impacted Soil

Measures to contain or prevent direct contact with impacted soil on the Site are not an issue because the soil sample analytical results for this PEA indicate that there is no impacted soil on the Site.

Nearby Sensitive Sites

Residences are across Sherman Road to the west of the Site south and east, and a shopping center is northeast of the Site. The surrounding area within 1 mile of the Site is residential, commercial and vacant (fallow) agricultural fields. There are no known parks, hospitals, medical clinics, nursing/convalescent homes or retirement homes within 1 mile of the Site. The nearby sensitive sites surrounding the Site are presented in the table below.

Sensitive Site	Approximate Distance from Site
Menifee State Preschool	0.3 mile west
Tammys Daycare	0.6 mile west
Bennion Family Day Care	0.7 mile north
Oliver Christian School Center	0.7 mile northwest
San Jacinto Child Development & Education Center	0.9 mile east
Good Shepard Lutheran School	0.9 mile north-northwest
Kirkpatrick Elementary School	1.1 miles east-northeast
Valley Wide Recreation and Park	1.1 miles east
Southwest Family YMCA	1.2 miles south-southeast

4.2 Factors Related to Water Pathways

Groundwater

The estimated groundwater depth at the Site is 100 feet bgs, and the inferred direction of regional groundwater flow is toward the east-southeast (Section 2.1.3). Groundwater was not encountered in any of the borings during this PEA or during the 2012 and 2004 Limited Phase II ESAs, which extended to a maximum depth of approximately 20 feet bgs.

Groundwater is not considered a potential pathway of contaminant migration on the Site, based on the approximate 100-foot depth to groundwater and no documented releases to groundwater at the Site.

Surface Water

There is no surface water present on the Site. La Paloma Wash, a lined intermittent stream, adjoins the Site to the west. There is an access road along the Wash between the it and the Site, but the road's pavement surface is several inches above adjoining grade on the Site and therefore Site runoff would apparently only enter the Wash during



floods. The nearest permanent surface water body downslope of the Site is Railroad Canyon Reservoir which is approximately 3.3 miles west of the Site. The topographic slope averages approximately 12 feet/mile (approximately 0.2 percent) between the Site and the Railroad Canyon Reservoir.

Surface water is not considered a potential pathway of contaminant migration on the Site, given the lack of surface water on the Site, together with the 3.3-mile distance and near-level topography between the Site and the Railroad Canyon Reservoir.

4.3 Factors Related to Air Pathways

Release Mechanisms

No atmospheric releases were identified on the Site and no facilities near the Site were identified as a potential source of atmospheric releases.

Prevailing Wind Direction and Velocity

The nearest Western Regional Climate Center (**WRCC**) station having wind direction and velocity data is Santa Rosa Plateau California, which is located approximately 11 miles southwest of the Site (WRCC website). WRCC Wind Rose data this station indicate that the prevailing winds are southwesterly during the day and northerly and southwesterly during the night, and that wind velocities range from 1.3 to 13 mph more than 99 percent of the time. These wind patterns do not have significant monthly or seasonal variations.

Local Climatic Factors

The average seasonal temperatures and precipitation for Menifee are listed in the following table (Weather.com website).

Season	Average Temperatures	Average Precipitation
Winter (December through February)	34 - 37 to 69 °F	7.0 inches
Spring (March through May)	41 - 50 to 72 - 85 °F	2.9 inches
Summer (June through August)	54 - 59 to 92 - 100 °F	0.3 inches
Fall (September through November)	40 - 58 to 76 - 95 °F	1.1 inches

Release Timing and Dispersion

Not applicable. No atmospheric releases were identified on the Site and no facilities near the Site were identified as a potential source of atmospheric releases.

Affected Populations

The Site is vacant and unoccupied, which minimizes direct exposure to the COPCs in soil. The recent visitors to the Site are Converse and its subcontractors, as well as RCDEH personnel, on sporadic visits ranging from a few hours to one day. Potential



exposure to windblown dust, if any, would be limited to the estimated twenty to thirty occupants of the residences adjoining to the west of Sherman Road, as well as walkers/joggers/bicyclists using the paved road along La Paloma Wash adjoining east and infrequent pedestrians and vehicle occupants using the unimproved portion of La Piedra Road adjoining to the north.

Proximity to Site

The nearest residences are across Sherman Road (unimproved) to the west of the Site. The nearest commercial area is a shopping center that is located approximately 0.1 mile to the northeast of the Site.

Sensitive Environments

There are no known coastal wetlands within two miles of the Site and no known freshwater wetlands or habitats for special species within one mile of the Site. The channel of La Paloma Wash is lined with concrete adjoining the Site. La Paloma Wash apparently only flows during and for a short time after prolonged, heavy rains which occur infrequently. There are no known parks within one mile of the Site.

There is a paved one-lane access road along the western side of La Paloma Wash adjoining the Site, which is used by the general public for walking, jogging and bicycling; a chain link fence separates the road and La Paloma Wash from the Site. The general public also uses the unimproved, unpaved part of La Piedra Road along the northern side of the Site as a pedestrian and vehicular shortcut between the residential area to the west of the Site and the shopping center to the northeast.

5.0 CONCEPTUAL SITE MODEL

Because the COPCs discussed above in Section 3.2 are non-volatile and have limited mobility in the subsurface environment, the release mechanisms and pathways leading to potential exposure by students, faculty, or staff at the planned school could include dermal, ingestion and/or inhalation, either by direct contact with the soil or by inhaling volatilized chemicals in an enclosed location. Because the Site is planned for development as an elementary school, faculty and staff are the key receptors, who have the highest potential for exposure, while students are the most susceptible.

Groundwater underlying the Site is estimated to be approximately 100 feet bgs underlying the Site. Therefore, the migration of the COPCs to groundwater is unlikely.

Based on the CSM information presented above, the critical assessment protocols for the Site would be the sampling and analysis of various combinations of the COPCs in soil (see Section 3.2). A CSM diagram is depicted on Figure 4. The following sections describe the rationales for conducting the PEA, including sampling strategies, investigative methods and procedures, sample analytical programs, sample handling, decontamination procedures, and management of investigation-derived wastes (IDW). The CSM may be modified by the results of this investigation.

This PEA investigation was conducted to address the risk of exposure to the following:

- OCPs in soil from past agricultural uses,
- arsenic in soil from past agricultural uses, and
- TTLC metals associated with potential past application of sewage sludge as fertilizer; coliform bacteria (not a COPC) was also evaluated as an indicator of potential past sewage sludge application.

The COPCs (metals and OCPs) are nonvolatile, bind strongly to soil and have generally low mobility and water solubility. Due to their generally low mobility and water solubility, leaching of these COPCs is unlikely, and migration to groundwater is unlikely due to the approximate 100-foot depth to groundwater. Exposure to these COPCs via surface water is unlikely because there is no surface water present at the Site and there are no permanent surface water bodies nearby. The primary transport mechanisms and exposure pathways for these COPCs are as dust via air and direct contact. The exposure routes are ingestion, inhalation and/or dermal contact.

The release mechanisms and pathways leading to potential exposure by students, teachers, or staff at the proposed school could include dermal, ingestion and/or inhalation, either by direct contact with the soil or by inhaling dust and/or vapors in an enclosed location.



6.0 DATA GAPS

The following data gaps (COPCs) were identified during the Phase I ESAs, the Limited Phase II ESAs, and/or the CSM developed for this Site:

- OCPs in soil from past agricultural uses,
- arsenic in soil from past agricultural uses, and
- metals in soil associated with potential past application of sewage sludge as fertilizer.

The PEA satisfactorily assessed the above COPCs, and thus closed the identified data gaps.



7.0 FIELD SAMPLING

7.1 Sampling Objectives

The sampling objectives at the Site were based primarily on the results of the Phase I and Limited Phase II ESAs conducted by Converse. Figures 5 and 5A depict the soil boring locations. The following is a summary of the sampling objectives related to the HREC and other environmental issues identified in the 2011 *Phase I ESA Report*:

- Past Agricultural Use: Soil sampling was conducted across the Site to screen for presence of OCPs and arsenic in shallow soil related to the past agricultural use of the Site.
- Potential Sewage Sludge Application as Fertilizer: Soil sampling was conducted across the Site to screen for presence of metals, as well as coliform bacteria, in shallow soil related to the potential past application of sewage sludge to the Site as fertilizer.

In addition to the above two objectives, stepout and stepdown soil borings and soil sampling were conducted at one location (surrounding B24 in the north-center of the Site) to confirm and delineate shallow soil with significant coliform analytical results.

7.2 Sampling Approach

There are typically five assessment phases conducted as a part of the PEA field data collection process. These five sampling phases include:

- Soil;
- Groundwater;
- Surface water;
- Soil gas; and
- Ambient air.

7.2.1 Groundwater Sampling

Based on information from the 2011 *Phase I ESA Report*, the estimated groundwater depth at the Site is 100 feet bgs (Section 2.1.4 in this PEA Report). Groundwater was not encountered in any of the borings during this PEA or during the 2004 and 2012 Limited Phase II ESAs, which extended to a maximum depth of approximately 20 feet bgs. Therefore, groundwater sampling was not conducted during the PEA.

7.2.2 Surface Water Sampling

Surface water sampling at the Site was not conducted during the PEA because there was no surface water present on the Site or nearby downslope.



7.2.3 Air Sampling

Air sampling was not within the scope of the PEA.

7.2.4 Soil Gas Sampling

Soil gas sampling at the Site was not conducted for the PEA because the COPCs (OCPs and metals) are non-volatile.

7.2.5 Soil Sampling Approach

Implementation of soil sampling, the remaining phase of assessment, was based on a site-specific CSM (Section 5.0 and Figure 4). Based on the available information, a CSM has been developed for the Site that identifies the:

- Potential sources of contamination,
- Potential release mechanisms,
- Potential pathways for contaminant movement, and
- Potential receptor exposure routes.

The available information indicates that a variety of compounds may be COPCs in surface and shallow soil, including the following:

- OCPs from past agricultural uses,
- Arsenic from past agricultural uses, and
- TTLC metals associated with potential past application of sewage sludge as fertilizer.

7.3 Sampling Locations and Rationale

The locations of soil borings at the Site were based primarily on the results of the Phase I and Limited Phase II ESAs conducted by Converse, and 2008 DTSC *Interim Guidance*. The borings were generally distributed evenly across the Site because there was no information on which to base biased boring locations. Figures 5 and 5A depict the boring locations. RCDEH was present during the soil borings and soil sampling on May 9 and June 6, 2012.

7.3.1 Past Agricultural Use

A total of 35 soil borings (B1 through B35) were advanced and sampled across the Site and soil samples from each of the borings were analyzed for OCPs and TTLC arsenic to screen for potential presence of agricultural chemicals in shallow Site soil related to the past agricultural use of the Site. These 35 borings include the nine borings (B1 through B9) from the 2012 Limited Phase II ESA.



7.3.2 Potential Past Sewage Sludge Application as Fertilizer

Soil samples from these 35 soil borings (B1 through B35) were also analyzed for TTLC metals to screen shallow Site soil for potential past application of sewage sludge as fertilizer on the Site.

Soil samples from 26 of these 35 soil borings (B10 through B35) were analyzed for coliform bacteria, a secondary indicator of potential past application of sewage sludge as fertilizer on the Site. Subsequently, ten stepout/stepdown borings (B24 DUP, B24 DUP2 and B24A through B24G), including three co-located duplicate borings, were advanced and sampled adjacent to B24 to delineate significant coliform analytical results in one sample (B24-0.5).

7.4 Sample Collection

7.4.1 Utility Clearance

Underground Services Alert (USA) was notified at least 48 hours prior to intrusive fieldwork. USA contacted all utility owners of record within the Site vicinity and notified them of our intention to conduct subsurface investigations in proximity to buried utilities. All utility owners of record, or their designated agents, were expected to clearly mark the position of their utilities on the ground surface throughout the area designated for investigation.

7.4.2 Soil Sample Collection

7.4.2.1 Initial Soil Sample Collection

Initially, 35 soil borings (B1 through B35) were advanced at the Site using the truck-mounted Geoprobe direct-push rig. The total depth of each Geoprobe boring was approximately 3 feet bgs. Two soil samples were collected from each Geoprobe boring (a total of 70 samples plus six co-located duplicate samples) at approximately 0 to 0.5 and 2.5 to 3 feet bgs. The approximate locations of the 35 borings are depicted on Figure 5.

7.4.2.2 StepOut/StepDown Soil Sample Collection

The coliform bacteria analytical results for the initial 29 soil samples (including three field duplicates) from the initial 26 soil borings, which had been advanced and sampled on May 9, 2012, identified significant coliform bacteria analytical results at B24. To delineate the significant coliform bacteria analytical results at B24, an additional ten stepout/stepdown borings (including three co-located duplicate borings) were advanced and sampled at the Site using the hand auger. The approximate locations of the ten stepout/stepdown borings are depicted on Figure 5A; B24 DUP and B24 DUP2 were located a few inches from B24, and B24E D was located a few inches from B24E.



The total depths of the eight stepout borings (B24A through B24G and B24E D) were each approximately 0.5 foot bgs. One sample (a total of eight samples) was collected from each stepout boring at approximately 0.5 foot bgs, including B24E-0.5D (a co-located field duplicate to sample B24E-0.5D). The total depths of the two stepdown borings (B24 DUP and B24 DUP2), which are co-located duplicates to B24, were each approximately 2 feet bgs. Two samples were collected from B24 DUP at approximately 0.5 and 2 feet bgs, including B24-0.5 DUP and (a co-located field duplicate to sample B24-0.5). Only sample B24-2 DUP2 and (a co-located field duplicate to sample B24-2 DUP) was collected from B24 DUP2 at approximately 2 feet bgs; B24-2 DUP2 was provided only to RCDEH.

The RCDEH requested that it witness advancement and sampling of two duplicate stepout/stepdown borings (B24 DUP2 and B24E D) on June 6, 2012. Two duplicate stepout/stepdown samples (B24-2 DUP2 and B24E-0.5D) were provided to the RCDEH; Converse submitted only one duplicate sample, B24E-0.5D, for analysis.

7.4.2.3 Background Soil Sample Collection

Background soil samples were not collected because the TTLC metals analytical results for the three composite soil samples from the nine previous (March 19, 2012) Geoprobe borings, which are a part of the soil sample dataset for this PEA, apparently represent background (naturally-occurring) metals levels. These initial TTLC metals analytical results are very similar to those for the ten composite soil samples from the 26 recent (May 9, 2012) Geoprobe borings. The range of TTLC metals concentrations, mean and median concentrations for all 13 Site composite soil samples (Method Detection Limits (MDLs) were used for ND TTLC metals) has been compared to the data presented in *Background Concentrations of Trace and Major Elements in California Soils*, (Kearny Foundation of Soil Science Report March 1996). The statistical comparison indicates that the range of TTLC metals concentrations in Site soil samples are within background concentrations in Kearny (Table 8).

Background sample collection is not necessary for OCPs.

7.4.2.4 Soil Sample Collection Methods

On March 19 and May 9, 2012, the initial 35 borings were advanced and the soil samples were collected using the Geoprobe rig and sampler. After advancing the Geoprobe sampler to the total depth of approximately 3 feet bgs, the sampler was retracted from the boring, and the inner acetate sample sleeve was removed from the sampler. Approximately six inches of the sample sleeve were selected from the appropriate depths (approximately 0.5 or 3 feet bgs). The selected sample sleeve portions were cut off and sealed with Teflon sheeting and plastic end caps. The RCDEH witnessed the soil sampling on May 9, 2012 and placed a custody seal one each of the Geoprobe sleeves after sample collection was completed. Duplicate portions of selected soil sample sleeves were provided to the RCDEH. After completion of sampling, the Geoprobe borings were backfilled with bentonite (hydrated in-place).



During the soil sample collection on March 19, 2012, a portion of the remaining soil sample from each sleeve was extracted into a sealable plastic bag for photoionization detector (PID) screening for volatile organic compounds (VOCs). All of the PID measurements were ND above the 0.1 part per million (ppm) PID detection limit for splits of each of the 18 soil samples. A PID was not available on the extremely short (next day) advance notice for the soil borings and sampling on May 9, 2012, but the lack of a PID is not considered significant, based on: 1) the non-volatile character of all COPCs for the Site, and 2) the ND PID measurements for VOCs for all 18 soil samples collected on March 19, 2012.

On May 16 and 25, 2012, the eight stepout/stepdown borings were advanced and the soil samples were collected using the hand auger. On June 6, 2012, the two co-located duplicate stepout/stepdown borings were advanced and two soil samples were collected using the hand auger. After the hand auger was advanced to the desired sampling depth (approximately 0.5 or 2 feet bgs), the auger was removed and the bottom portion of its soil contents was placed in a laboratory-supplied, pre-cleaned 4-ounce wide-mouth glass jar with a Teflon-sealed lid. The RCDEH witnessed the soil sampling on June 6, 2012 and was provided with two duplicate soil samples. After completion of sampling, the ten hand auger borings were each backfilled with hand auger soil cuttings.

On May 9, 2012, the RCDEH placed a custody seal on each of the Geoprobe sleeves after sample collection was completed. The soil sample sleeves and jars were placed in chilled coolers and delivered under chain of custody documentation to Enviro-Chem, Inc. (EnviroChem), California certified laboratory, each day within several hours after collection.

7.4.2.5 Field Instrument Calibration

A MiniRae PID was used for health and safety monitoring and field screening during soil sampling on March 19, 2012. The PID field data were used as a real-time indicator of VOC vapors in subsurface materials.

The MiniRae was calibrated a minimum of once per day in order to display accurate VOCs concentrations in ppm. A span gas, containing a 100-ppm concentration of Isobutylene in air, was used to set the PID sensitivity. The PID was calibrated as follows:

1. Connect the calibration adapter to the gas inlet tube of the PID, and connect the calibration adapter to the span gas cylinder. Hand-tighten the fittings.
2. Turn the flow controller knob counterclockwise about one-half turn to start the span gas flow. The pump noise should change indicated that the gas has started to flow.
3. Wait for the PID reading to stabilize within ± 0.1 ppm (usually takes about 30 to 40 seconds). When the last digit of the reading stops changing for a few seconds, depress the [enter] key to complete the procedure.



4. Turn the flow controller knob fully clockwise to turn off the flow of gas. Disconnect the calibration adapter from the PID.

7.4.3 Decontamination Procedures

All equipment which came into contact with potentially-contaminated soil or water, was decontaminated prior each use to prevent cross-contamination of samples. Single-use disposable equipment was not decontaminated but was packaged for appropriate disposal. Decontamination consisted of the following:

- Non-phosphate detergent and tap water wash, using a brush if necessary;
- Tap-water rinse; and
- De-ionized/distilled water rinse.

Equipment was decontaminated in buckets. Cleaned, bulky equipment was stored on plastic sheeting or on clean supporting apparatus that kept the equipment from coming in contact with the ground. Cleaned small equipment was stored on plastic sheets or in plastic bags. If equipment was to be stored more than a few hours, and there was a likelihood of airborne contamination, it was also covered.

7.4.4 Sample Containers and Preservatives

The soil samples were collected in pre-cleaned single-use acrylic sleeves and plastic endcaps or in pre-cleaned 4-ounce wide-mouth glass jars with a Teflon-sealed lids. The acrylic sleeves and plastic endcaps were provided by the Geoprobe subcontractor, and the wide-mouth glass jars were provided by the laboratory. The sample containers were not rinsed prior to sample collection.

Sample analytical methods, containers, storage, preservatives and holding times are discussed further in the QAPP (Appendix A) and are summarized in Table 1 of the QAPP.

7.4.5 Sample Packaging and Shipment

To identify and manage samples obtained in the field, a sample label was affixed to each sample container. The sample labels included the following information:

- Project number;
- Site name;
- Site location;
- Sample identification and;
- Date and time of collection.

Preservation of the soil samples was not necessary. After collection and labeling, sample container lids/end caps were checked for tightness, and the following procedures were followed for soil sample storage and transportation:

1. Samples were placed in the coolers; sample container breakage was not a concern.



2. Ice or blue ice packs were used to keep samples chilled during transportation. When ice was used, the cooler drain plug was taped to prevent melt water leakage.
3. The chain of custody form was completed in the field and accompanied each cooler to EnviroChem. In addition, a *Sample Receipt Form* provided by the RCDEH was transported to EnviroChem with the soil samples collected on May 9 and June 6, 2012. EnviroChem filled out and signed the *Sample Receipt Form*, which is included with the laboratory reports for the May 9 and June 6, 2012 samples.
4. The soil samples were delivered to EnviroChem within several hours after soil sampling was completed each day.
5. EnviroChem prepared splits of the soil samples collected on May 9, 2012, which were delivered by courier with chain of custody to Associated Laboratories (**Associated**) on May 9, 2012. EnviroChem delivered the intact soil samples collected on May 16 and 25 and June 6, 2012 to Associated by courier with chain of custody the same day they were collected.

7.4.6 Documentation

7.4.6.1 Field Logs

Where appropriate, field logs documented where, when, how, and from whom any vital project information was obtained. Field log entries are, in general, complete and accurate enough to permit reconstruction of field activities. Each field log page was dated and the time of entry noted in military time. Entries are generally legible, written in ink, and signed by the individual making the entries. Language is factual, objective, and free of personal opinions or other terminology, which might prove inappropriate. Field log entries include at a minimum the following for each sample date:

- Site name and address;
- Recorder's name;
- Time of Site arrival/entry onsite and time of departure;
- Other personnel onsite;
- A summary of pertinent onsite meetings; and
- Deviations from sampling plans and site-specific HASP.

At a minimum, the following information was recorded during sample collection:

- Sample identifier, location and description;
- Site sketch showing sample location and measured distances;
- Sampler's name;
- Date and time of sample collection; and
- Field observations and details important to integrity and/or analysis of samples;

7.4.6.2 Boring Logs

The field geologist (under the direct supervision of a California Professional Geologist (**PG**)) described the soil encountered in the borings. Soil was classified in accordance



with the Unified Soil Classification System (**USCS**), and descriptions include soil type, particle size and distribution, color, moisture content, and evidence of contamination (discoloration, unusual odors, etc.). Preparation of boring logs was considered unnecessary because the borings were a maximum of approximately 3 feet deep.

7.4.6.3 Chain of Custody Records

Chain of custody records are used to document sample collection and shipment to EnviroChem for analysis. A chain of custody record was completed and sent with each sample shipment to EnviroChem. The chain of custody record identifies the contents of each shipment and maintains the custodial integrity of the samples. In addition, a *Sample Receipt Form* provided by the RCDEH was transported to laboratory with the soil samples collected on May 9 and June 6, 2012. The laboratory reports for the samples collected on May 9 and June 6, 2012 (Appendix D) each contain copies of the chain of custody and the *Sample Receipt Form*. Generally, a sample is considered to be in one's custody if it is either in one's physical possession or view, locked up or kept in a secured area that is restricted to authorized personnel. Chain of custody procedures are further discussed in the QAPP (Appendix A).

7.5 Soil Sample Analytical Methods

The analytical program which was conducted as part of this PEA assessment is summarized below and described further in the QAPP (Appendix A), including Tables 1 through 3.

7.5.1 Initial and StepOut/StepDown Soil Sample Analytical Methods

A total of 70 soil samples (plus six co-located duplicate samples) were collected at approximately 0.5 and 3 feet bgs from the initial 35 Geoprobe borings. Eleven soil samples (including three co-located duplicate samples) were collected at approximately 0.5 and/or 2 feet bgs from the ten stepout/stepdown hand-auger borings. One or two soil samples were collected from each boring.

In addition, portions of selected sample sleeves were provided to RCDEH from the 26 May 9, 2012 borings, and two sample jars were provided to RCDEH from the two June 6, 2012 borings.

All Converse soil samples were transported to EnviroChem, a state-certified laboratory, under chain of custody documentation. EnviroChem archived all soil samples that were not analyzed. Selected soil samples were analyzed for one or more of the following:

- OCPs using EPA Method 8081A;
- TTLC arsenic using EPA Method 6010B;
- TTLC metals using EPA Methods 6010B/7471A; and/or
- Coliform bacteria using Methods SM 9221-B and SM 9221-F.



The OCPs and TTLC metals soil sample analyses were performed by EnviroChem, Inc. a state-certified laboratory. The coliform bacteria soil sample analyses were performed by EnviroChem's subcontractor, Associated, also a state-certified laboratory. Co-located duplicate samples, representing approximately 10 percent of the total number of samples analyzed, were also analyzed by EnviroChem or Associated.

EnviroChem first homogenized each of the 35 shallow (0.5-foot) soil samples from each of the 35 Geoprobe borings and the nine deeper (3-foot) soil samples from each of the initial nine (May 19, 2012) Geoprobe borings (a total of 44 samples). After being homogenized, portions of the samples were composited in groups of two or three samples each. EnviroChem also split duplicates from approximately 10 percent of the composite samples. Each of the 15 composite samples and two split-duplicate composite samples was then analyzed by EnviroChem for OCPs using EPA Method 8081A. Each of the 12 shallow (0.5-foot) composite samples and one split duplicate composite sample was then analyzed by EnviroChem for TTLC metals using EPA Methods 6010B/7471A.

One discrete soil sample from each of the 12 shallow (0.5-foot) composite samples (a total of 13 discrete samples including one co-located field duplicate) was also each analyzed by EnviroChem for TTLC arsenic using EPA Method 6010B.

A total of 39 discrete soil samples (including five co-located field duplicates) were each analyzed by Associated for coliform bacteria using Methods SM 9221-B and SM 9221-F. These 39 soil samples consist of the 29 discrete shallow soil samples from the May 9, 2012 borings (including three co-located duplicates) and ten subsequent stepout/stepdown soil samples (including two co-located duplicates). The eleventh stepout/stepdown soil samples, B24-2 DUP2 (a co-located field duplicate of B24 2 DUP) was only provided to RCDEH.

Four of the discrete soil samples provided to RCDEH on May 9, 2012 (B28-1 through B31-1) were each analyzed by E.S. Babcock & Sons, Inc. for the following:

- OCPs using EPA Method 8081A;
- TTLC metals using EPA Methods 6010B/7471A; and/or
- Coliform bacteria using Methods SM 9221-B and SM 9221-E.

7.5.2 Background Soil Sample Analytical Methods

Background soil samples were not collected or analyzed (see section 7.4.2.3 and Table 8). Background sample collection/analysis is not necessary for OCPs.

7.6 Soil Sample Analytical Results

The numbers of soil samples listed below include only those samples analyzed. All soil samples, which were collected but not analyzed, were archived by EnviroChem.



7.6.1 OCPs and TTLC Arsenic Soil Sample Analytical Results

The OCPs analytical results for the 15 composite soil samples and two split-duplicate composite samples are summarized in Table 3. The TTLC arsenic analytical results for the 12 shallow (0.5-foot) discrete soil samples and one co-located field duplicate sample are summarized in Table 2; Table 2 also includes the TTLC arsenic results for the 13 shallow composite samples (including one split-duplicate composite sample) which were analyzed for TTLC metals. Complete laboratory analytical reports are presented in Appendix D. In summary, the OCPs and TTLC arsenic analytical results for these soil samples indicate the following:

- DDE concentrations range from 0.001 to 0.013 mg/kg in the 14 shallow (0.5-foot) composite soil samples (including two split-duplicates).
- DDE is ND above the 0.0001-mg/kg MDL all three deep (3-foot) composite soil samples.
- All of the other OCPs are ND above MDLs ranging from 0.0001 to 0.0020 mg/kg in all 17 composite soil samples (including two split-duplicates).
- TTLC arsenic is ND above the 0.248-mg/kg MDL in all 13 shallow discrete soil samples (including one co-located field duplicate) analyzed for TTLC arsenic.
- TTLC arsenic is also ND above the 0.248-mg/kg MDL in all 13 shallow composite soil samples (including one split-duplicate) analyzed for TTLC metals.

Relevant 2004 Soil Sample Analytical Results

The analytical results for two of the eight 2004 composite soil samples (AG-3A/3B/3C/3D-0.5 and AG-3A/3B/3C/3D-2) are relevant to this PEA because they contain discrete samples from the two 2004 borings (AG-3A and AG-3B) located on the Site. These sample analytical results are summarized in Table 5. Complete laboratory analytical reports are presented in Appendix E of the 2004 *Phase I and Limited Phase II Report*, which is on the CD in Appendix C of this PEA Report. In summary, the OCPs, OPPs and CHs analytical results for these two 2004 composite soil samples indicate the following:

- The DDE concentration is 0.002 mg/kg in AG-3A/3B/3C/3D-0.5, the 2004 shallow (0.5-foot) composite sample from the Site. DDE is ND above the 0.001-mg/kg PQL in AG-3A/3B/3C/3D-2, the 2004 deep (2-foot) composite soil sample from the Site.
- All of the other OCPs are ND above PQLs ranging from 0.001 to 0.020 mg/kg in both 2004 composite samples from the Site.
- All OPPs are ND above PQLs that are 0.50 or 4.0 mg/kg in both 2004 composite samples from the Site.
- All CHs are ND above PQLs ranging from 0.020 to 20.0 mg/kg in both 2004 composite samples from the Site.

RCDEH OCPs Soil Sample Analytical Results



The OCPs analytical results for the four discrete RCDEH soil samples (B28-1 through B31-1) are summarized in Table 3A, which also includes the associated composite soil sample OCPs analytical results. The complete laboratory analytical report is presented in Appendix D. In summary, the OCPs analytical results for these four soil samples indicate the following:

- The DDE concentrations are 0.024 and 0.0048 mg/kg in B28-1 and B30-1, respectively. DDE is ND above the 0.0030-mg/kg Reporting Detection Limit (RDL) in B29-1 and B31-1.
- All of the other OCPs are ND above RDLs ranging from 0.0020 to 0.080 mg/kg in all four RCDEH discrete soil samples.

7.6.2 TTLC Metals Soil Sample Analytical Results

The TTLC metals analytical results for the 13 shallow (0.5-foot) composite soil samples (including one split-duplicate composite sample) are summarized in Table 1. Complete laboratory analytical reports are presented in Appendix D. In summary, the TTLC metals analytical results for these 13 composite soil samples indicate the following:

- TTLC barium, chromium, cobalt, copper, vanadium and zinc concentrations range from 5.10 to 131 mg/kg in all 13 shallow composite soil samples (including one split-duplicate) analyzed for TTLC metals.
- TTLC nickel concentrations range from 2.52 to 7.54 mg/kg in ten of the 13 shallow composite soil samples (including one split-duplicate) analyzed for TTLC metals. TTLC nickel is ND above a 0.165-mg/kg MDL in the three remaining shallow composite soil samples.
- The other ten TTLC metals (TTLC antimony, arsenic, beryllium, cadmium, lead, mercury, molybdenum, selenium, silver and thallium) are ND above MDLs ranging from 0.0062 to 0.432 mg/kg in all 13 shallow composite soil samples (including one split-duplicate) analyzed for TTLC metals.

RCDEH Metals Soil Sample Analytical Results

The metals analytical results for the four discrete RCDEH soil samples (B28-1 through B31-1) are summarized in Table 1A, which also includes the associated composite soil sample TTLC metals analytical results. The complete laboratory analytical report is presented in Appendix D. In summary, the metals analytical results for these four soil samples indicate the following:

- Barium, vanadium and zinc concentrations range from 32 to 140 mg/kg in all four discrete soil samples.
- Chromium and copper concentrations range from 12 to 14 mg/kg in B28-1 and B30-1. Chromium and copper are ND above 10-mg/kg RDLs in B29-1 and B31-1.
- The other 12 metals (antimony, arsenic, beryllium, cadmium, cobalt, lead, mercury, molybdenum, nickel, selenium, silver and thallium) are ND above RDLs ranging from 0.20 to 50 mg/kg in all four discrete soil samples.



7.6.3 Coliform Bacteria Soil Sample Analytical Results

The coliform bacteria analytical results for the initial 29 shallow (0.5-foot) discrete soil samples (including three co-located field duplicate samples) are summarized in Table 4, together with those for the ten subsequent stepout/stepdown discrete samples (including two co-located field duplicate samples). Complete laboratory analytical reports are presented in Appendix D. In summary, the coliform bacteria analytical results for these soil samples indicate the following:

- The total coliform (**Tc**) analytical results range from <2 Most Probable Number per gram (**MPN/g**) to 8.00 MPN/g for the 29 initial soil samples, with one exception.
- The *E. coli* (**Ec**) analytical results are all <2 MPN/g for the 29 initial soil samples, with one exception.
- The Tc and Ec analytical results are both >16,000 MPN/g for B24-05, the remaining initial sample.
- The Tc and Ec analytical results are 7,000 and 4,900 MPN/g, respectively, for B24-05 DUP (co-located duplicate of B24-05), which supersedes the indeterminate >16,000 MPN/g analytical results for B24-05.
- The Tc and Ec analytical results are all <2 MPN/g for all ten stepout/stepdown soil samples associated with B24, including two co-located field duplicates.

RCDEH Coliform Bacteria Soil Sample Analytical Results

The coliform bacteria analytical results for the four discrete RCDEH soil samples (B28-1 through B31-1) are summarized in Table 4, which also includes the other coliform bacteria soil sample analytical results. The complete laboratory analytical report is presented in Appendix D. In summary, the coliform bacteria analytical results for these four soil samples indicate the following:

- The Tc analytical result is 4.00 MPN/g in B28-1, and Tc is ND above the 2.0-MPN/g RDL in the other three discrete soil samples.
- Ec is ND above the 2.0-MPN/g RDL in all four discrete soil samples.

7.7 Discussion of Soil Sample Analytical Results

All soil sample analytical results for all OCPs and TTLC metals are less than corresponding CHHSL-Rs and/or DTSC SSLs, which are the appropriate guidance levels. The 2006 DTSC *Interim Guidance* provides proportionally-reduced CHHSL-Rs for eight OCPs and recommends comparison of composite sample OCPs analytical results to the proportionally-reduced CHHSL-Rs. Using the *Interim Guidance* as a guide, proportionally-reduced CHHSL-Rs and DTSC SSLs were created for the 17 TTLC metals and four additional OCPs (a total of 12 OCPs). The proportionally reduced CHHSL-Rs and DTSC SSLs are approximately $\frac{1}{3}$ and $\frac{1}{2}$ for 3- and 2-sample composites, respectively, and compensate for effect of compositing of samples. The composite sample analytical results for OCPs and TTLC metals have then been



compared to the proportionally-reduced CHHSL-Rs and DTSC SSLs. There are no regulatory or guidance levels for coliform bacteria in soil.

In summary, the soil sample analytical results indicate the following:

- DDE concentrations (0.001 to 0.013 mg/kg) are much less than the reduced CHHSL-Rs (0.530 or 0.800 mg/kg, for three- or two-sample composites, respectively) for all 15 shallow (0.5-foot) composite soil samples (including two split-duplicates and the 2004 shallow composite sample).
- DDE is ND above the 0.0001-mg/kg MDL, which is much less than the reduced CHHSL-Rs (0.530 or 0.800 mg/kg) for all four deep (3-foot) composite soil samples (including the 2004 deep composite sample).
- All of the other OCPs are ND at MDLs (ranging from 0.0001 to 0.0020 mg/kg), which are less than corresponding proportionally-reduced CHHSL-Rs (ranging from 0.010 to 180 mg/kg) in all 19 composite samples (including two-split duplicates and both 2004 composite samples).
- TTLC arsenic is ND above the 0.248-mg/kg MDL, which is much less than the DTSC SSL (12 mg/kg) in all 13 shallow (0.5-foot) discrete soil samples analyzed (including one co-located field duplicate).
- TTLC is arsenic ND above the 0.248-mg/kg MDL, which is much less than the proportionally-reduced DTSC SSLs (4 or 6 mg/kg) in all 13 shallow (0.5-foot) composite soil samples (including one split-duplicate).
- All other TTLC metals analytical results are less than the proportionally-reduced CHHSL-Rs for all 13 shallow (0.5-foot) composite soil samples (including one split-duplicate).
- All OCPs and TTLC metals analytical results for all composite and discrete soil samples analyzed are less than the corresponding TTLCs and less than ten times corresponding Soluble Threshold Limit Concentration (**STLCs**).
- All OCPs and TTLC metals analytical results for all composite and discrete soil samples analyzed are also less than 20 times corresponding Maximum Concentrations of Contaminants for the Toxicity Characteristic (**TCs**).
- The 39 of the Tc and Ec analytical results all range from negative (<2 MPN/g) to 8.00 MPN/g with only two exceptions each. The analytical results for these 37 samples are not considered significant, although there are no regulatory or guidance levels for Tc or Ec in soil.
- The Tc and Ec analytical results are both >16,000 MPN/g for B24-0.5 (the first exception); these indeterminate results prompted collection and analysis of B24-0.5 DUP (a co-located field duplicate).
- The Tc and Ec analytical results are 7,000 and 4,900 MPN/g, respectively, in B24-0.5 DUP (the second exception) generally confirming the analytical results for B24-0.5 and indicating that the Tc is primarily composed of Ec.
- In general, the OCPs, metals and coliform bacterial analytical results for the four RCDEH discrete soil samples correlate well with corresponding Converse discrete and composite soil sample analytical results. The primary differences are that some



metals and OCPs are detected in the Converse samples due to smaller MDLs, and the same metals and OCPs are reported as ND at larger RDLs in the RCDEH samples. The Tc and Ec analytical results correlate very well between the Converse and RCDEH samples, because the RDLs are the same and all are discrete samples.

7.8 Localized Shallow Soil with Significant Tc and Ec Analytical Results

The significant Tc and Ec analytical results (7,000 and 4,900 MPN/g, respectively) for B24-0.5 and B24-0.5 DUP, together with the analytical results (all <2 MPN/g) for the other nine stepout/stepdown samples, indicate that there is a localized area of significant Tc and Ec analytical results in shallow soil surrounding B24. The analytical results for the ten stepout/stepdown samples associated with B24 indicate that the area of soil with significant Tc and Ec analytical results extends an estimated 2½ feet laterally from B24 and 1½ feet deep (Figure 5A). The volume of soil having significant Tc and Ec analytical results is therefore an estimated 1.1 cubic yards (CY).

The Site-wide Tc and Ec analytical results, together with the Site-wide TTLC metals analytical results, indicate that there was apparently no past application of sewage sludge on the Site. The evidence supporting this conclusion is as follows:

- Site-wide, the Tc analytical results range from <2 MPN/g to 8.00 MPN/g for all soil samples, excluding only B24-0.5 and B24-0.5 DUP;
- Site-wide, the Ec analytical results are <2 MPN/g for all soil samples, excluding only B24-0.5 and B24-0.5 DUP;
- Site-wide, the TTLC metals analytical results for all soil samples are within naturally-occurring background levels for California; and
- Michael Bouris, a prior owner of the 2011 "Property" (including the Site), who farmed the "Property" stated that no sewage sludge was applied during his 50-year tenure at the "Property". The January 4, 2011, of the Menifee City Council Meeting Minutes summarize Mr. Bouris testimony as follows: "family is land owners in area since 1922. Expressed support and noted no sludge used on the land in last 50 years." Mr. Bouris' use of the term "land" refers to the larger 2011 "Property" of which the Site is a part.

Additional assessment or any RAs for the localized area of significant Tc and Ec analytical results is considered unnecessary for the following reasons:

- The lack of regulatory or guidance levels for Tc and Ec in soil;
- The lack of any significant TTLC metals concentrations associated with the localized area of significant Tc and Ec analytical results or anywhere else on the Site;
- The small area of shallow soil with significant Tc and Ec analytical results (less than 2½ feet in diameter and less than 1½ feet deep) and small volume of associated soil (an estimated 1.1 CY);



- The probability that the Tc and Ec will attenuate naturally in the small area of affected shallow soil because coliform bacteria are anaerobic and have no source of food or water; and
- Ec is known to survive in soil for up to nine months. The Site has been fallow since 2005, and therefore the localized presence of Ec at boring B24 is not from agricultural operations at the Site, but is instead from another source such as a recent animal spoor.

7.9 Investigation-Derived Waste Management

In the process of collecting environmental samples during the proposed field sampling program, the following types of potentially-contaminated IDW were generated:

- Used personal protective equipment (PPE);
- Disposable sampling equipment;
- Excess soil sample material; and
- Decontamination fluids.

Listed below are the procedures for handling the IDW:

- Used PPE and disposable equipment were placed in a municipal refuse dumpster. These wastes are not considered hazardous and can be sent to a municipal landfill. Any PPE and disposable equipment for disposal that could still be reused was rendered inoperable before disposal.
- Decontamination water was properly disposed of by the Geoprobe subcontractor.
- Excess soil sample material from the Geoprobe borings was properly disposed of by the Geoprobe subcontractor.

7.10 Field Conditions

PEA fieldwork was completed during March through May 2012. The average temperature during the work day ranged from approximately 70 to 90 °F. No inclement weather was encountered during the fieldwork.

7.11 Field Variances

The following field variance from the agreed-upon scope of work was implemented during this PEA: stepout and stepdown soil borings and sampling were conducted to confirm and delineate the significant Tc and Ec analytical results encountered in soil sample B24-0.5, which was collected from boring B24, located in the north-center of the Site.

The QAPP envisioned use of a PID for each field day. A PID was not available on the extremely short (next day) advance notice for the soil borings and sampling on May 9, 2012, but the lack of a PID is not considered significant, based on: 1) the non-volatile



character of all COPCs for the Site, and 2) the ND PID measurements for VOCs for all 18 soil samples collected on March 19, 2012.

The QAPP envisioned that co-located field duplicate samples would be collected simultaneously with the associated primary sample and submitted blind to the laboratory. Two primary samples, B24-0.5 and B24E-0.5, were collected on different dates than the corresponding co-located field duplicate samples, B24-0.5 DUP and B24E-0.5D, respectively. B24-0.5 DUP was collected to confirm the significant Tc and Ec analytical results for B24-0.5 and to provide more meaningful results than B24-0.5. B24E-0.5D was collected later than B24E-0.5 during a subsequent site visit requested by RCDEH to witness sample collection. These two duplicates were not submitted blind, but the each primary and its corresponding duplicate were in different sample shipments separated by more than one week.



8.0 QUALITY ASSURANCE/QUALITY CONTROL

An integral part of the PEA investigation sampling and analysis plan is the Quality Assurance/Quality Control (QA/QC) program to ensure the reliability and compatibility of all data generated during this PEA investigations. The QAPP (Appendix A) provides specific descriptions of the field and laboratory procedures to be employed for verifying and maintaining performance quality for collection of environmental samples and subsequent chemical analysis. The QAPP sets forth the policies, procedures, and activities for the identification and documentation of the precision, accuracy, completeness, and representativeness of the data during the performance of this PEA.

8.1 *Review of Project Quality Control (QC) Program*

An integral part of the PEA sampling and analysis plan is the QA/QC program to ensure the reliability and compatibility of all data generated during this PEA. The QAPP (Appendix A) provides specific descriptions of the field and laboratory procedures employed for verifying and maintaining performance quality for collection of environmental samples and subsequent chemical analysis. The QAPP sets forth the policies, procedures, and activities for the identification and documentation of the precision, accuracy, completeness, and representativeness of the data during this PEA.

During the PEA, a variety of data was collected. Each sample collected may have been analyzed for a number of different chemicals, depending on the rationale for sample collection. However, not all chemicals detected were attributable to an onsite release and not all of the data will be of acceptable quality. Data collected was evaluated to determine which of the chemicals identified are likely to be Site-related and to assess whether the reported concentrations for these chemicals are of acceptable quality for use in the screening evaluation.

This project incorporated certain specified protocols to document the quality of the data collected during this PEA, in general accordance with the DTSC requirements. Soil samples were collected in general compliance with EPA SW-846. The laboratory PQLs, MDLs, CHHSL-Rs and DTSC SSLs, are summarized in Tables 2 and 3 of the appended QAPP. These stringent Data Quality Objectives (DQOs) for school study sites, including the Site, are intended to produce data that are suitable for use in a PEA. The laboratory MDLs, which are the basis for ND analytical results for OCPs and TTLC metals, are all less than or equal to the corresponding CHHSL-Rs and/or DTSC SSLs, including proportionally reduced CHHSL-Rs and/or DTSC SSLs for composite soil samples. No samples were diluted prior to analysis.

The data generated for the PEA was of sufficient quantity and quality that they identify the presence and concentrations of chemicals of concern at the areas sampled. Precision, accuracy, completeness, representativeness and comparability typically define the data quality. The mathematical formulas used to compute these parameters are included in the QAPP.



Precision is the degree of agreement between independent measurements. Precision can be evaluated through the use of duplicate samples. Precision between duplicate or co-located soil samples can vary due to the inherent heterogeneity of soil.

Accuracy is the degree of agreement of a measured value with true or expected value. Accuracy can be measured in the laboratory using percent recovery data for spiked (known) concentrations.

Completeness is the percent of measurements made which are judged to be valid. Completeness can be measured by dividing the number of samples that are judged to be valid by the number of total samples.

Representativeness is the degree to which the sample data represent the characteristics of a population. Representativeness is a qualitative parameter that addresses the design of the sampling program. An example of representativeness is to evaluate whether the number and locations of samples are sufficient for the purposes of this assessment.

Comparability is a qualitative parameter that evaluates the confidence with which one data set can be compared to another. Comparability can be enhanced by using standard analytical methods performed by state-certified laboratories.

8.1.1 QC Procedures

EnviroChem analyzed one co-located field duplicate sample for approximately every ten discrete samples analyzed. EnviroChem prepared and analyzed one split-duplicate composite sample for approximately every ten composite samples analyzed. EnviroChem prepared and analyzed appropriate laboratory QC samples at the rate of approximately one for every approximately 20 samples analyzed. More information regarding these duplicate samples is provided in the QAPP (Appendix A).

8.1.1.1 Field Duplicate Samples

During initial soil sampling, six co-located field duplicate samples were collected, and during stepout/stepdown sampling, one co-located field duplicate sample was collected. Four of the seven co-located field duplicate samples were analyzed follows:

Analyte	Primary Samples	Duplicate Samples
TTLc arsenic (discrete samples)	12	1
Tc and Ec (discrete samples)	34	5 ¹

¹ Two of the Tc and Ec duplicate samples are B24-0.5 DUP and B24E-0.5D, co-located field duplicates of B24-0.5 and B24E-0.5, respectively.

8.1.1.2 Background Samples

Background soil samples were not collected and analyzed for TTLC metals because the TTLC metals analytical results from the 35 Geoprobe borings apparently represent background (naturally-occurring) metals concentrations (see section 7.4.2.3 and Table 8). Background sampling is not necessary for OCPs.

8.1.1.3 Laboratory Split Duplicate Samples

The soil samples from the borings were homogenized and then composited by the laboratory in general accordance with the 2008 DTSC *Interim Guidance* prior to analyses for OCPs and/or TTLC metals. EnviroChem prepared split two duplicate composite samples in general accordance with the 2008 DTSC *Interim Guidance*, one from each of two of the 15 composite samples analyzed. The two split-duplicate samples were analyzed follows:

Analyte	Primary Samples	Duplicate Samples
TTLC metals (composite samples)	12	1
OCPs (composite samples)	15	2

8.1.1.4 Laboratory QC Samples

Laboratory QC Samples: Laboratory QC sample types included method blanks, laboratory surrogates, laboratory control spike (**LCS**) samples, matrix spike (**MS**) samples, and matrix spike duplicate (**MSD**) samples for soil samples analyzed. Each laboratory QC sample type was analyzed to monitor the precision and accuracy of laboratory analytical procedures, at a rate not less than one laboratory QC sample per type per batch of up to 20 samples (including blanks and duplicates).

8.2 Review of Sampling Procedures

A variety of data were collected during the soil sampling. Soil samples were selected for TTLC arsenic, TTLC metals, OCPs and/or coliform bacteria analysis, depending on the rationale for sample collection. However, not all chemicals detected can be attributable to an onsite release and not all of the data is of equal quality. Data collected has been evaluated to determine which of the chemicals identified are likely to be Site-related and to assess whether the reported analytical results for these chemicals are of acceptable quality for use in the evaluation. Following is a discussion of the evaluations conducted.

Soil samples were collected under the supervision of a California PG. Boring locations were verified prior to collection and confirmed using GPS. All sampling equipment was decontaminated between uses to avoid cross contamination between borings and samples. Once samples were collected, they were immediately containerized and



labeled, and were then placed in chilled coolers and stored in a chilled condition until received by the laboratory.

8.3 Review of Analytical Procedures

All applicable laboratory QC analyses, including calibrations, method blanks, duplicate control samples, and other QC, met acceptance criteria. No matrix-related anomalies were noted in the laboratory reports (certification of laboratory quality control procedures is included).

8.4 Review of Data Quality Objectives

This project has incorporated specified protocols to document the quality of the data collected during this investigation. Soil samples were collected in compliance with EPA SW-846. Laboratory MDLs for OCPs and TTLC metals, which are the basis for ND analytical results, are all less than the corresponding CHHSL-Rs and/or DTSC SSLs; the CHHSL-Rs and/or DTSC SSLs have been proportionally reduced prior to comparison with composite sample analytical results. The laboratory PQLs and MDLs for OCPs and TTLC metals are presented in the QAPP.

The objectives of precision, accuracy, completeness, representativeness and comparability typically define the data quality. The mathematical formulae used to compute these parameters are included in the QAPP. The use of these DQOs for school site studies, including the Site, is to produce data that are suitable for use for a PEA screening risk evaluation.

8.4.1 Precision

Precision is the degree of agreement between independent measurements. Precision can be evaluated through the use of duplicate samples. Precision between primary and co-located field duplicate sample pairs can vary due to the inherent heterogeneity of soil. ND analytical results for both samples in a pair have not been used to calculate RPDs because they yield no usable data for statistical evaluation. In such instances, the MS/MSD sample results are used to evaluate the precision of the analysis.

Both samples in the discrete primary-duplicate soil sample pair are ND for TTLC arsenic, and thus a Relative Percent Difference (RPD) was not calculated. The analytical results for the TTLC arsenic discrete sample pair are acceptable, because the MS/MSD sample results are acceptable.

The analytical results for all six samples comprising three of four the discrete primary-duplicate soil sample pairs are all <2 MPN/g for both Tc and Ec, and thus RPDs were not calculated. The <2 MPN/g Tc and Ec analytical results (which are considered negative and are similar to ND) for both samples in each of the three pairs have not been used to calculate RPDs because they yield no usable data for statistical evaluation. For the fourth pair, the Tc and Ec analytical results are both >16,000 MPN/g



for the primary sample, and the Tc and Ec analytical results are 7,000 and 4,900 MPN/g, respectively, for duplicate. RPDs were not calculated for the fourth pair because the >16,000 MPN/g Tc and Ec analytical results for both samples in fourth pair are not meaningful as regards calculation of a RPD.

Both of the split-duplicate composite sample pairs were analyzed for OCPs. Both of the split-duplicate composite sample pairs have RPDs less than the 30-percent precision goal for DDE, the only OCP detected in all four samples in both split-duplicate composite sample pairs. All other OCPs are ND for all four samples in both split-duplicate composite sample pairs, and thus RPDs were not calculated except for any of the other OCPs. The ND analytical results for both split-duplicate composite sample pairs are acceptable, because the MS/MSD sample results are acceptable.

One of the split-duplicate composite sample pairs was analyzed for TTLC metals. Each of the seven TTLC metals detected in both samples comprising the split-duplicate composite sample pair have RPDs less than the 30-percent precision goal. All of the other ten TTLC metals are ND in both samples in the split-duplicate composite sample pair, and thus RPDs were not calculated for any of these other ten TTLC metals, including TTLC arsenic. The ND analytical results for the split-duplicate composite sample pair are acceptable, because the MS/MSD sample results are acceptable.

8.4.2 Accuracy

Accuracy is the degree of agreement of a measured value with true or expected value. Accuracy can be measured using percent recovery data in the laboratory using spiked concentrations. In cases where the percent recovery exceeds the acceptable range, other QA/QC procedures such as laboratory control spikes and surrogates were used to validate the data. Review of the data indicated that the accuracy is acceptable.

8.4.3 Completeness

Completeness is the percent of measurements made which are judged to be valid. Completeness can be measured by dividing the number of samples that are judged to be valid by the number of total samples. Based upon the data reviewed, all samples were judged to be useable for the intended purpose, and the DQO for completeness has been met.

8.4.4 Representativeness

Representativeness is the degree to which the sample data represent the characteristics of a population. Representativeness is a qualitative parameter that addresses the design of the sampling program. The number and location of the samples are considered sufficient to accurately assess the Site. Based upon the objectives of this investigation, the Site appears to be adequately assessed.



8.4.5 Comparability

Comparability is a qualitative parameter that evaluates the confidence with which one data set can be compared to another. Datasets generated during the PEA are considered comparable due to the use of standard analytical methods by certified laboratories. Evaluation of the data collected during this PEA indicates that the level of confidence of the compared datasets is acceptable.

8.5 Data Validation Memorandum

The Data Validation Memorandum (Appendix E) concludes the following: *Based on this Level II validation, all data collected through implementation of the scope of work satisfy data quality requirements specified for the PEA for the Site. The analyses followed the approved methods and included acceptable QC procedures. The relevant QA/QC results were satisfactory and acceptable. No outstanding issues were identified during the course of the data validation review. Overall, the presented data (including the qualified results) are reliable and useable for project decision making.*

The Data Validation Memorandum recommends the following: *The data should be used to characterize the nature and extent of any contamination, support screening risk evaluation, and/or evaluate the response action need, relative to the Site.*



9.0 HEALTH AND SAFETY

The HASP was prepared for this PEA, based on a plan that was previously used at other school sites. The HASP is contained in Appendix B.

There were no deviations from the HASP.



10.0 ENVIRONMENTAL MIGRATION SCREENING EVALUATION

Converse did not encounter groundwater in the borings from this PEA or the 2004 Limited Phase II ESA, which extended to a maximum depth of approximately 20 feet bgs, and groundwater sampling was not a part this PEA. Based on information from the *Phase I Report*, the estimated groundwater depth at the Site is 100 feet bgs (Section 2.1.4 in this PEA Report).

Surface water sampling was not conducted during this PEA because there was no surface water present at the Site.



11.0 HUMAN HEALTH SCREENING EVALUATION

The PEA HHSE involves identifying COPCs, evaluating exposure pathways and media of concern, assessing chemical toxicity, and subsequently, characterizing risks. Estimated health risks are based on a calculated dose (i.e., amount of chemical intake), that integrates exposure parameters for the receptors of concern (e.g., reference doses and slope factors) and chemical concentrations. The calculated risks are then compared to health-based levels deemed acceptable by the DTSC. For the purpose of the HHSE, even though the future use of the Site is for a school, the potential risks are calculated based on a more conservative residential or unrestricted land-use scenario.

Exposure to chemicals can only occur if there is a complete pathway by which chemicals in soil, water, or air can be contacted by humans. Therefore, the evaluation of exposure pathways is the first step in the HHSE. Exposure pathways are identified in the CSM (Section 5).

Potential dose and risk are then calculated based on an evaluation of potential exposure point concentrations (**EPCs**) to the COPCs, and their toxicities. The findings of the HHSE are summarized in Risk Index (Section 11.2). Uncertainty Analysis (Section 11.4) presents factors in the HHSE that may result in an overestimation or underestimation of risk for risk management consideration.

11.1 Identification of Chemicals of Potential Concern

11.1.1 Comparison Metal Concentrations in Site Soil Against Background Data

Seven TTLC metals were reported in ten or all 13 of the composite soil samples analyzed (including one split-duplicate composite). The numbers of detections and Site Maximum Concentrations for the seven TTLC metals are summarized in the table below:

TTLC Metal	Number of Detections	Site Maximum Concentration	
		3-Sample Composite (mg/kg)	2-Sample Composite (mg/kg)
TTLC barium	13	114	131
TTLC chromium	13	12.7	12.3
TTLC cobalt	13	7.74	7.82
TTLC copper	13	15.1	13.9
TTLC nickel	10	3.38	7.24
TTLC vanadium	13	41.3	43.7
TTLC zinc	13	47.7	48.5



The *PEA Guidance Manual* states that metals present concentrations less than or equal to background concentrations may be eliminated as COPCs. A background TTLC dataset was, however, not generated during the field activities because the TTLC metals analytical results for the 13 composite soil samples are considered to represent naturally-occurring background levels (see section 7.4.2.3 and Table 8).

Determination of whether a metal is a COPC was addressed on a tiered approach, each with a different degree of confidence. The first tier (tier 1) is achieved if the background maximum concentration exceeds the Site Maximum Concentration. The second tier (tier 2) is achieved if the average background concentration exceeds the Site average concentration. Tier 1 and tier 2 comparisons were not used because background soil samples were not collected and analyzed for TTLC metals (see section 7.4.2.3 and Table 8).

Site Maximum Concentrations for TTLC metals were instead compared with their corresponding CHHSL-Rs, excluding TTLC arsenic, which was compared with the DTSC SSL; the CHHSL-Rs and DTSC SSL for TTLC arsenic, were proportionally reduced prior to comparison with composite sample analytical results. Site Maximum Concentrations for TTLC metals (including MDLs for ND TTLC metals) are less than the corresponding CHHSLs-Rs, or the DTSC SSL for TTLC arsenic, as presented in the table below. Therefore, all 17 TTLC metals were eliminated as COPCs.

COPC	Site Maximum Concentration ¹		CHHSL-R (DTSC SSL)	
	3-Sample Composite (mg/kg)	2-Sample Composite (mg/kg)	3-Sample Composite (mg/kg) ²	2-Sample Composite (mg/kg) ³
TTLC antimony	0.250	0.250	10	15
TTLC arsenic	0.248	0.248	(4)	(6)
TTLC arsenic	0.248		(12) ⁴	
TTLC barium	114	131	1,733	2,600
TTLC beryllium	0.180	0.180	50	75
TTLC cadmium	0.119	0.119	0.57	0.85
TTLC chromium	12.7	12.3	33,333	50,000
TTLC cobalt	7.74	7.82	220	330
TTLC copper	15.1	13.9	1,000	1,500
TTLC lead	0.192	0.192	27	40
TTLC mercury	0.0062	0.0062	6	9
TTLC molybdenum	0.274	0.274	127	190



COPC	Site Maximum Concentration ¹		CHHSL-R (DTSC SSL)	
	3-Sample Composite (mg/kg)	2-Sample Composite (mg/kg)	3-Sample Composite (mg/kg) ²	2-Sample Composite (mg/kg) ³
TTLC nickel	3.38	7.24	533	800
TTLC selenium	0.234	0.234	127	190
TTLC silver	0.414	0.414	127	190
TTLC thallium	0.432	0.432	1.67	2.50
TTLC vanadium	41.3	43.7	177	265
TTLC zinc	47.7	48.5	7,667	11,500

- 1 MDL (*italics*) used as Site Maximum Concentration when all sample analytical results are ND.
- 2 CHHSL-Rs and DTSC SSLs reduced to 1/3 for 3-sample composites (2006 DTSC *Interim Guidance*).
- 3 CHHSL-Rs and DTSC SSLs reduced to 1/2 for 2-sample composites (2006 DTSC *Interim Guidance*).
- 4 The discrete-sample TTLC arsenic analytical results are all ND and compared to the unreduced DTSC SSL (12 mg/kg).

11.1.2 OCPs

Per DTSC guidance, all detected OCPs are considered COPCs. DDE is the only OCP detected in any of the 17 composite soil samples analyzed for OCPs using EPA Method 8081A during this PEA. DDE is also the only OCP detected in the two 2004 composite soil samples from the Site. DDE is therefore the only OCP considered a COPC. No other organic analytes were detected in any of the Site soil samples.

The Site Maximum Concentration for DDE is 0.013 mg/kg in B22/23/24-0.5, which is much less than the proportionally-reduced CHHSL-R for DDE of 0.530 mg/kg (reduced to approximately 1/3 for comparison to B22/23/24-0.5, which is three-sample composite).

11.2 Risk Index

The risk index was calculated for the entire Site as an initial screening to determine if further evaluation was needed, because all analytical results for the COPCs identified during this PEA (DDE and seven TTLC metals) are significantly less than corresponding CHHSL-Rs or DTSC SSLs.

The risk index is calculated by dividing the EPC for each OCP and TTLC metal (using the Site Maximum Concentrations for detected analytes and/or MDLs for ND analytes) by the corresponding CHHSL-Rs or DTSC SSLs. For composite samples, the EPC was compared to the proportionally-reduced CHHSL-Rs or DTSC SSLs to account for the compositing effect. The individual risk indices for each analyte are then summed up to arrive at the total Site risk index. The risk index is then multiplied by the target risk level of 1×10^{-6} to arrive at an estimated risk.



The risk index and the associated risk for TTLC metals and OCPs, as well as total Site risk index and total Site risk, were calculated based only on Site Maximum Concentrations for DDE and the seven TTLC metals detected in one or more soil samples as presented in the table below:

	Risk Index	Risk
TTLC metals ¹	0.368	3.68×10^{-7}
OCPs	0.0244	2.44×10^{-8}
Site Total	0.392	3.92×10^{-7}

¹ TTLC arsenic was not included in risk calculations consistent with DTSC guidance on another recent school project (see section 11.3 below).

The total Site risk is 3.92×10^{-7} (equivalent to 0.392×10^{-6}), which is less than the target risk goal of 1×10^{-6} .

The risk index and the associated risk for TTLC metals and OCPs, as well as total Site risk index and total Site risk, were calculated a second time, based on Site Maximum Concentrations for DDE and seven TTLC metals, together with proportionally-reduced MDLs for the other ND TTLC metals (excluding TTLC arsenic, see section 11.3) and OCPs as presented in the table below:

	Risk Index	Risk
TTLC metals ¹	0.880	8.80×10^{-7}
OCPs	0.0703	7.03×10^{-8}
Site Total	0.950	9.50×10^{-7}

¹ TTLC arsenic was not included in risk calculations consistent with DTSC guidance on another recent school project (see section 11.3 below).

This more conservative risk calculation results in a total Site risk of 9.50×10^{-7} (equivalent to 0.950×10^{-6}), which is also less than target risk goal of 1×10^{-6} . Accordingly, no further evaluation of the Site risk was conducted.

A copy of the summary tables is provided as Tables 9 and 10.

11.3 TTLC Arsenic

TTLC arsenic was not included in the above risk calculations, consistent with DTSC guidance on another recent school project (Roosevelt II (Dr. Mildred D. Henry) Elementary School). The basis for not including TTLC arsenic in the above risk calculations is that the DTSC SSL (12 mg/kg) for TTLC arsenic is not risk based, but is instead the southern California background level. In this way the DTSC SSL for TTLC

arsenic is fundamentally different from the CHHSL-Rs for the other 16 TTLC metals and all of the OCPs, which are risk based.

TTLC arsenic is ND above a 0.248-mg/kg MDL in all 13 discrete samples and all 13 composite samples analyzed for TTLC arsenic. The Site Maximum Concentration for TTLC arsenic is therefore the 0.248-mg/kg MDL, which is less than the DTSC SSL (12 mg/kg) for all 13 discrete samples and less than the proportionally-reduced DTSC SSLs (4 and 6 mg/kg for 3- and 2-sample composites, respectively) for all 13 composite samples.

11.4 Uncertainty Analysis

The purpose of a HHSE is not to predict the actual risk of exposure to an individual. Rather, it is a management tool for developing conservative estimates of health hazards, which are unlikely to underestimate the true risk for potentially exposed populations.

As a result, the numerical estimates in a risk assessment (risk values) have associated uncertainties reflecting the limitations in available knowledge about Site concentrations, exposure assumptions (e.g., chronic exposure concentrations, intake rates, frequency of time spent at home), and chemical toxicity. Where information is incomplete, conservative (overly-protective) assumptions must be made. In other words, although calculations of exposure often must be simplified to a few pathways or subgroups within a population, the simplifying assumptions should be more likely to overestimate rather than underestimate risk so that public health is protected regardless of other unknown conditions. Even when actual characteristics of a population are known, assumptions on exposure are often biased toward producing over-protective rather than under-protective health risk estimates for the majority of the population.

Consistent with DTSC guidance, this PEA has used Site Maximum Concentrations as EPCs, although the concentrations of DDE and the seven TTLC metals detected in Site soil samples vary across the Site. The DTSC guidance does not allow use of 95 Percent Upper Confidence Level concentrations, which are less conservative than Site Maximum Concentrations but are probably also more representative of actual Site-wide conditions. The use of Site Maximum Concentrations as EPCs conservatively overestimates the total Site risk and risk index.

Consistent with DTSC guidance, the estimates presented in this HHSE are based on a residential exposure scenario of 350 days per year and 24 hours per day for 30 years. This is a conservative estimate since the more realistic scenario is for school-based exposures of staff and students. When the school-based exposure scenario is assumed, all cancer risk estimates would be less than what was estimated for the residential exposure scenario. This decrease is due to school-based exposure being far less intensive (on the order of 190 to 200 days per year and 8 to 10 hours per day) as compared to the residential exposure scenario (350 days per year and 24 hours per day), which was assumed in this HHSE. Exposure to chemicals detected in Site soil is



further reduced taking into account the actual, proposed land-use of the Site as a school (much of the Site soil will be covered with asphalt pavement, buildings, landscape, and hardscape) as compared to the residential exposure scenario (all soil uncovered).



12.0 PUBLIC PARTICIPATION

Public hearings were held by the Menifee City Council and Planning Commission for both the larger 2011 "Property" and specifically for the SRA. The general public and Regent Properties personnel attended the public hearings, and the general public and Regent Properties personnel gave testimony, except at the November 23, 2010 Planning Commission and April 19, 2011 City Council public hearing.

Between November 23, 2010 and April 19 2011, two Menifee Planning Commission public hearings and seven Menifee City Council public hearings were held for Specific Plan Amendment, General Plan Amendment, and Environmental Impact Report (EIR) Development Agreement, located at the southwest corner of Newport and Haun Roads, Menifee Town Center (the 2011 "Property"). The Specific and General Plan Amendments and EIR Development Agreement included residences, recreational areas and potential public land uses for the "Property", as well as a generic school.

At the January 4, 2011 Menifee City Council hearing, Michael Bouris (a prior owner/farmer of the 2011 "Property" (including the Site), testified that: "family is land owners in area since 1922. Expressed support and noted no sludge used on the land in last 50 years." Mr. Bouris' use of the term "land" refers to the larger 2011 "Property" of which the Site is a part (see section 7.8).

At the January 18, 2011 hearing, the Menifee City Council approved of Resolution No. 11-195 and EIR 2010-152 regarding the "Property" and adopted a statement of overriding consideration.

At the April 5, 2011 meeting, the Menifee City Council introduced Ordinance No. 2011-89 approving Specific Plan Amendment No. 2009-069 establishing the Town Center Specific Plan and Ordinance No. 2011-90 approving a Development Agreement between the City of Menifee and Regent Properties.

At the April 19, 2011 hearing, the Menifee City Council approved the Consent Agenda which included Ordinance Nos. 2011-89 and 2011-90.

On March 27, 2012 the Menifee Planning Department held a workshop for the SRA 2011-165 Public Use Permit and Addendum to Final EIR 2010-152 (SCH# 2009091022). In addition to Planning Department personnel and Planning Commission members, personnel from the SRA, Competitive Edge Development and Regent Properties attended the workshop. The purpose of the workshop was to acquaint Planning Commission members with the SRA project and discuss project details.

On April 24, 2012 the Menifee Planning Commission held a public hearing for the SRA Public Use Permit 2011-165 and Addendum to Final EIR 2010-152 (SCH# 2009091022). In addition to the Planning Commission members, Menifee Planning Department personnel and the general public, personnel from the SRA, Competitive Edge Development, Regent Properties and Converse attended the hearing and gave



testimony. At the hearing, the Menifee Planning Commission approved the SRA Public Use Permit 2011-165 and Addendum to Final Environmental Impact Report 2010-152 (SCH# 2009091022).



13.0 COMPLIANCE WITH ADDITIONAL REGULATORY REQUIREMENTS

There are no known additional local, state or federal regulatory requirements applicable to this PEA.



14.0 FINDINGS

The following are findings from this PEA.

14.1 *Nature and Extent of Contamination*

- All soil sample analytical results for all analytes are less than corresponding CHHSL-Rs and/or DTSC SSLs, which have been proportionally reduced prior to comparison with composite soil sample analytical results.
- The concentrations of seven TTLC metals are apparently naturally-occurring background levels, as are the remaining ten TTLC metals (including TTLC arsenic and lead) which are ND in all soil samples.
- The co-located duplicate sample to B24-0.5, as well as the stepout and stepdown samples, satisfactorily delineated the shallow soil with significant Tc and Ec analytical results. There are no regulatory or guidance levels for coliform.
- The sample analytical results indicate that the shallow soil with significant Tc and Ec analytical results extends approximately 2½ feet laterally from B24 and approximately 1½ feet deep, and it comprises an estimated 1.1 CY.
- No COCs were identified during this PEA. Tc and Ec are not COPCs or COCs.

14.2 *Fate and Transport*

- No COCs were identified during this PEA.
- The COPCs, one OCP (DDE) and seven metals, are persistent in the environment and do not break readily down in soil. OCPs and metals have low solubility in water and bind strongly to soil, and therefore leaching and migration to groundwater are unlikely (Spectrum Laboratories, Inc. website).
- The primary transport mechanisms and exposure pathways for DDE on the Site are the inhalation and ingestion of fugitive dust and direct contact.
- The primary transport mechanisms and exposure pathways for the seven metals on the Site are also the inhalation and ingestion of fugitive dust and direct contact. The seven TTLC metals concentrations (and MDLs for the ten ND TTLC metals), however, are apparently naturally-occurring background levels.

14.3 *Human Health Risk*

- The calculated total risk index for the Site is 0.950, and the corresponding total Site risk is 9.50×10^{-7} , using the Site Maximum Concentrations for DDE and seven TTLC metals, as well as the MDLs for the other analytes (excluding TTLC arsenic) that are ND in all Site soil samples. TTLC arsenic was not included in the risk calculations because the DTSC SSL is not risk based, unlike the risk based CHHSL-Rs for the other analytes.



- The total Site risk, 9.50×10^{-7} (equivalent to 0.950×10^{-6}), is less than the target risk goal of 1×10^{-6} . Accordingly, no further evaluation of the Site risk was conducted.
- TTLC arsenic is ND, and the MDL for TTLC arsenic (0.248 mg/kg) is less than the DTSC SSL (12 mg/kg) for discrete samples, and is also less than the proportionally-reduced DTSC SSLs (6 and 4 mg/kg) for two- and three-sample composites, respectively.



15.0 CONCLUSIONS AND RECOMMENDATIONS

15.1 Conclusions

The objectives of this PEA, to determine whether current or past hazardous material management practices or waste management practices have resulted in a release or threatened release of hazardous materials, or whether naturally occurring hazardous materials are present, which pose a threat to children's health, children's learning abilities, public health or the environment, have been met. The following are conclusions from this PEA.

- A minor release of one OCP (DDE) has apparently occurred on the Site from past application of pesticides. This PEA has satisfactorily assessed this apparent minor release of OCPs.
- There was apparently no past application of sewage sludge on the Site as fertilizer, based on soil sample analytical results for TTLC metals and coliform bacteria.
- No naturally-occurring hazardous material is present on the Site.
- All soil sample analytical results for all analytes are less than corresponding CHHSL-Rs and/or DTSC SSLs, which have been proportionally reduced prior to comparison with composite sample analytical results.
- Significant initial Tc & Ec analytical results were encountered in one initial soil sample (B24-0.5) from boring B24 in the north-center of the Site. There are no regulatory or guidance levels for Tc and Ec.
- The significant Tc & Ec analytical results in B24-0.5 prompted collection and analysis of a co-located duplicate to B24-0.5, as well as stepout and stepdown samples, to confirm and delineate the area of soil with initial significant Tc and Ec analytical results.
- The co-located duplicate sample to B24-0.5, as well as the stepout and stepdown samples, satisfactorily delineated the shallow soil with significant Tc and Ec analytical results. The sample analytical results indicate that it extends approximately 2½ feet laterally from B24 and approximately 1½ feet deep, and it comprises an estimated 1.1 CY.
- The calculated total Site risk is 9.50×10^{-7} , using the Site Maximum Concentrations for DDE and seven TTLC metals and the MDLs for the other analytes (excluding TTLC arsenic) that are ND in all Site soil samples. TTLC arsenic was not included in the risk calculations because the DTSC SSL is not risk based, unlike the-risk based CHHSL-Rs for the other analytes.
- The total Site risk, 9.50×10^{-7} (equivalent to 0.950×10^{-6}), is less than the target risk goal of 1×10^{-6} . Accordingly, no further evaluation of the Site risk was conducted.
- TTLC arsenic is ND in all Site soil samples, and the MDL for TTLC arsenic is less than the DTSC SSL, including proportionally-reduced DTSC SSLs for composite soil samples.



15.2 Recommendations

NFA is recommended for the Site. This NFA recommendation is conditional on removal of the large mound of fill in the eastern portion of the Site, as well as a number of small fill piles in the northeast, prior to or concurrent with school development and construction.

In addition, Converse stated in the 2011 *Phase I ESA Report* that agricultural/water wells were identified to be historically present on the "Property". No evidence of these wells, if extant, was observed during field activities on the Site. If, however, one or more wells are found on the Site during school development and construction, then the well(s) should be properly abandoned in accordance with applicable local and state rules and regulations.



16.0 REFERENCES

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- OEHHA, Toxicity Criteria Database website:
<http://www.oehha.ca.gov/risk/ChemicalDB/index.asp>.
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<http://www.speclab.com/elements/arsenic.htm>, [/chromium.htm](http://www.speclab.com/elements/chromium.htm), [/cobalt.htm](http://www.speclab.com/elements/cobalt.htm), [/copper.htm](http://www.speclab.com/elements/copper.htm),
[/nickel.htm](http://www.speclab.com/elements/nickel.htm), [/vanadium.htm](http://www.speclab.com/elements/vanadium.htm) and [/zinc.htm](http://www.speclab.com/elements/zinc.htm).
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- Weather.com website:
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- Western Regional Climate Center website:
<http://www.raws.dri.edu/cgi-bin/rawMAIN.pl?caCSRO>.



17.0 SIGNATURE AND QUALIFICATIONS OF RESPONSIBLE PROFESSIONAL

I am a Professional Geologist registered by the state of California. In compliance with the *Geologist and Geophysicist Act*, I have the specific qualifications based on education, training and experience to supervise the field activities and report preparation for this PEA.

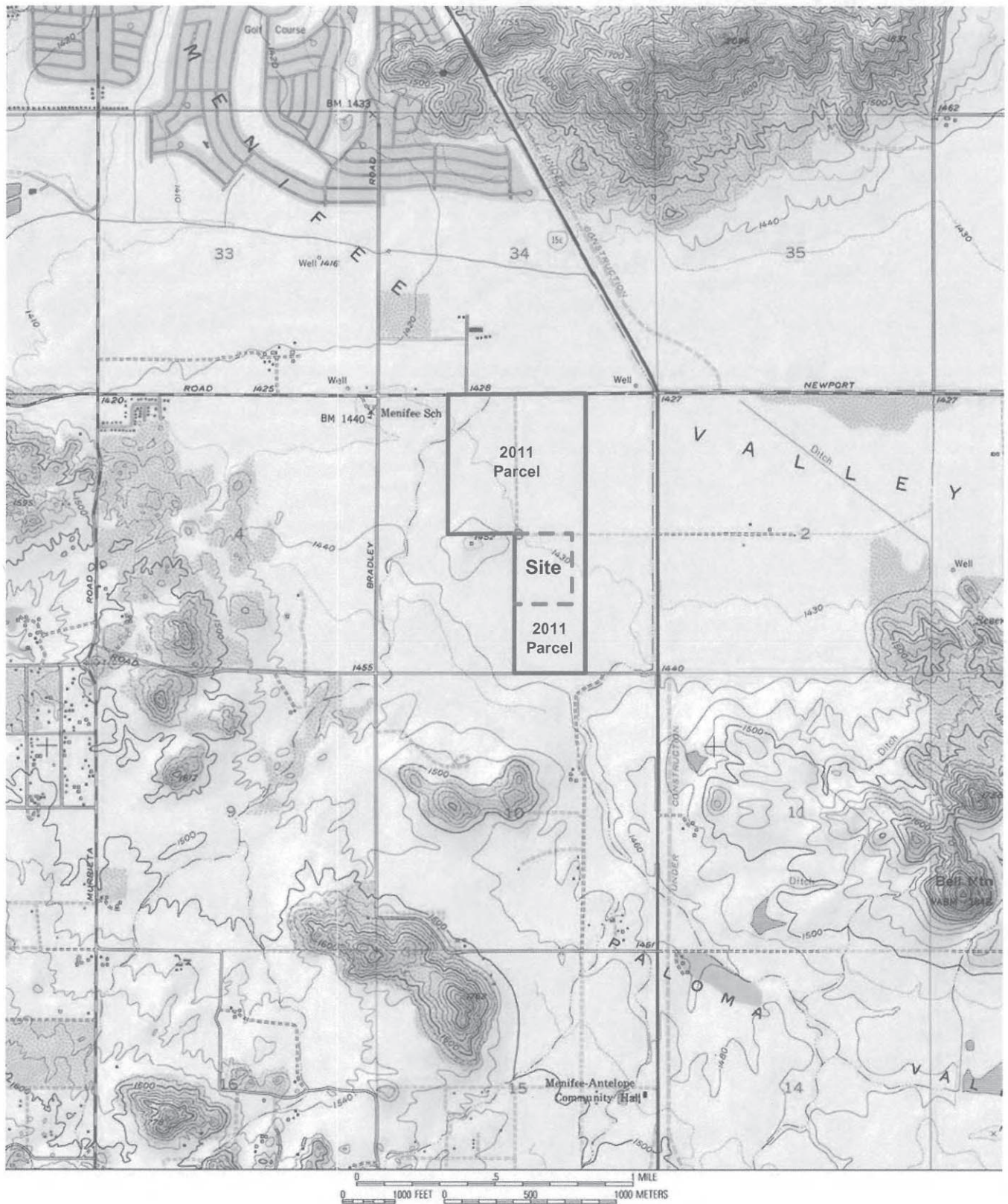


Duncan Walker, PG
Senior Geologist



Various Maps
Figures 1 through 6

Figures



Vicinity Map



Client: Santa Rosa Academy
27587 La Piedra Road, Menifee, CA

Project No:
12-16-115-02



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FIGURE

1



0 ft. 250 ft. 500 ft. 1,000 ft.



Map distances are approximate

Legend

— Approximate Site boundary

Site Location Map



Client: Santa Rosa Academy
27587 La Piedra Road, Menifee, CA

Project No.
12-16-115-02

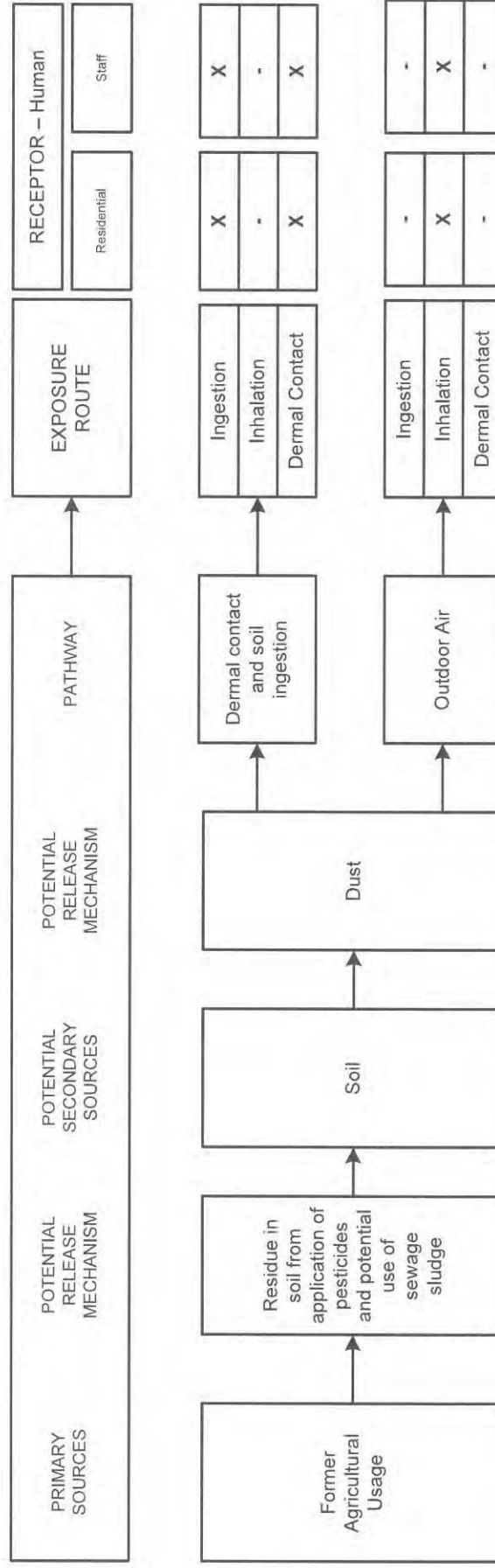


Converse Consultants

FIGURE

2

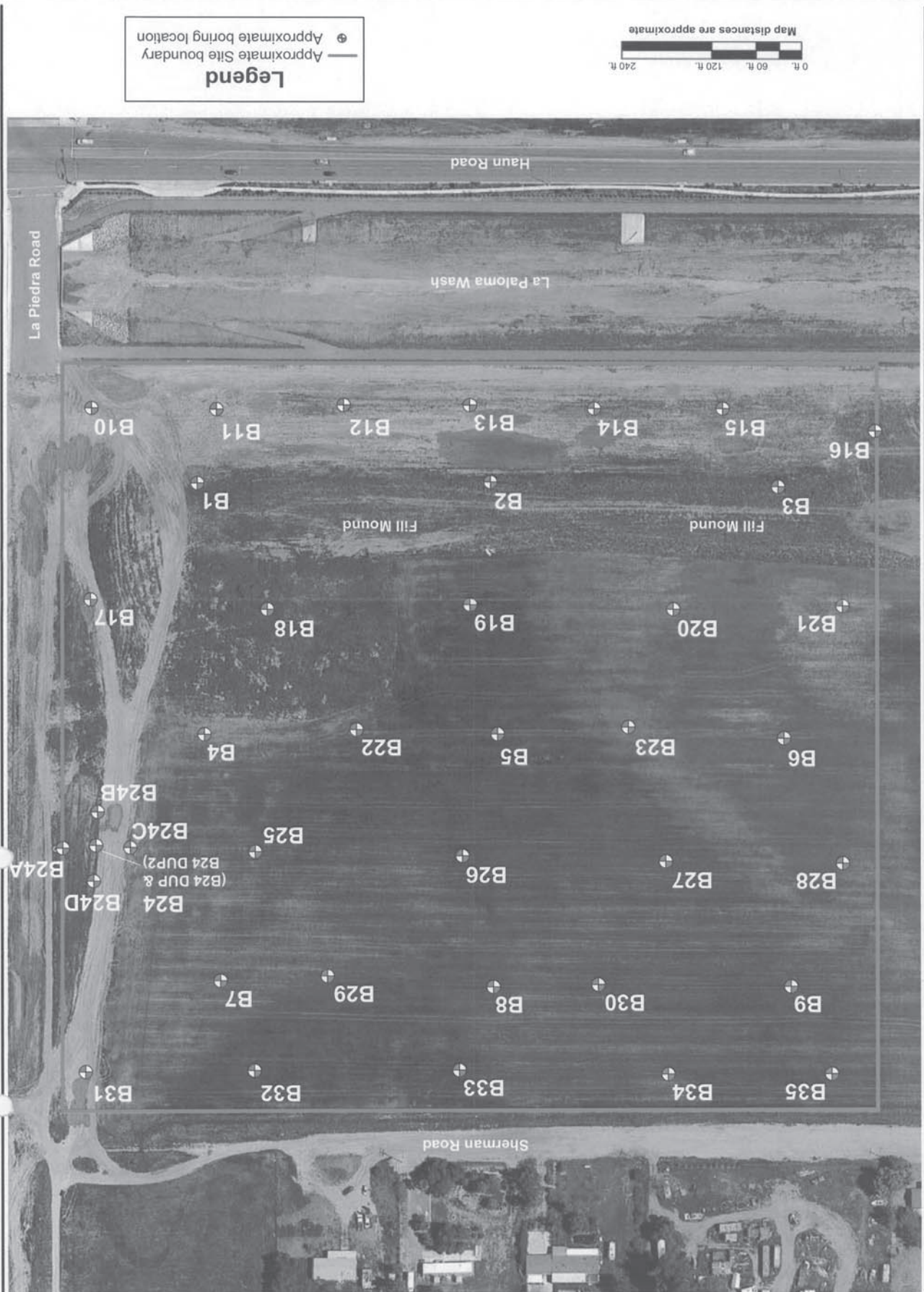
Figure 4
CONCEPTUAL SITE MODEL
Santa Rosa Academy
Menifee, California

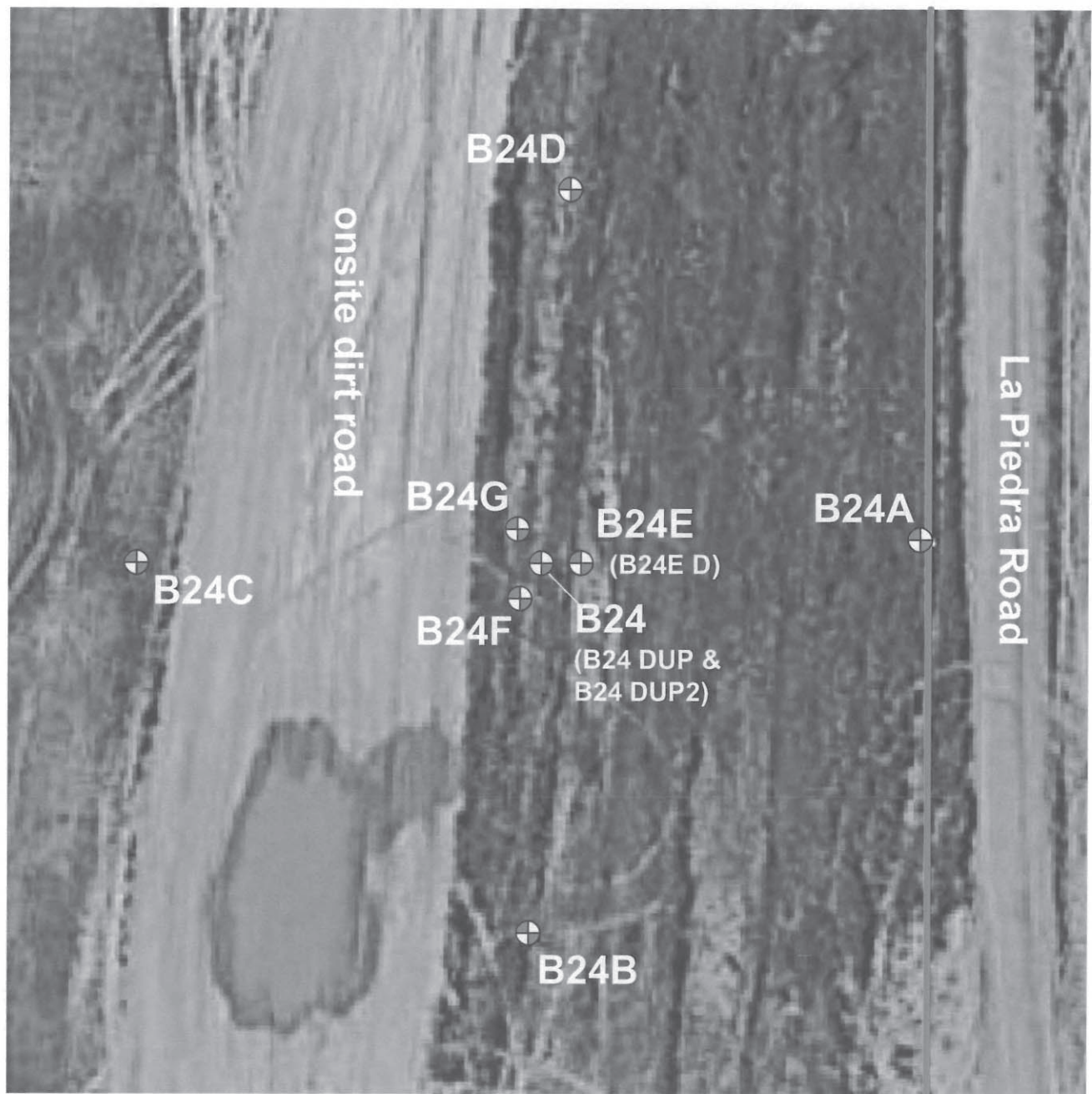


+ Complete Pathway - Incomplete Pathway



Soil Boring Location Map





0 ft. 10 ft. 20 ft. 40 ft.



Map distances are approximate

Legend

- Approximate Site boundary
- ⊕ Approximate boring location

Soil Boring B24 Location Map



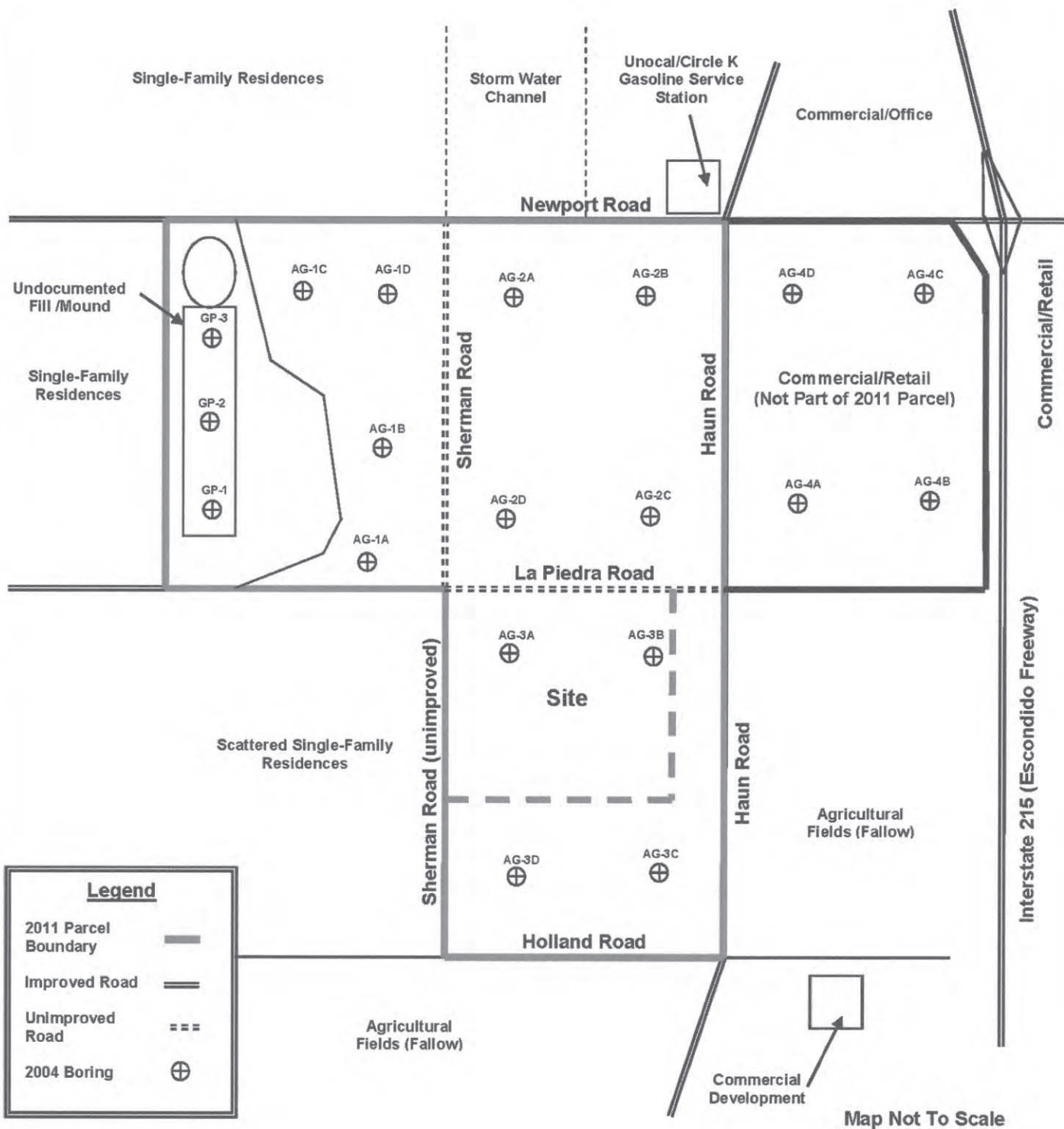
Client: Santa Rosa Academy
27587 La Piedra Road, Menifee, CA

Project No.
12-16-115-02



Converse Consultants

FIGURE
5A



2004 Boring Location Map



Client: Santa Rosa Academy
27587 La Piedra Road, Menifee, CA

Project No:
12-16-115-02
(04-16-276-01)



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FIGURE

6

**Various Tables
1 through 10**

Tables

Table 1
2012 Composite Soil Sample Analytical Results for Total Threshold Limit Concentration Metals
Proposed Santa Rosa Academy
Menifee, CA

Total Threshold Limit Concentration (TTLC) Metals - EPA Methods 6010B/7471A																				
Boring ID	Sample Date	Composite Sample ID	Sample Depth (feet, bgs)	TTLC Antimony (mg/kg)	TTLC Arsenic (mg/kg)	TTLC Barium (mg/kg)	TTLC Beryllium (mg/kg)	TTLC Cadmium (mg/kg)	TTLC Chromium (mg/kg)	TTLC Cobalt (mg/kg)	TTLC Copper (mg/kg)	TTLC Lead (mg/kg)	TTLC Mercury (mg/kg)	TTLC Molybdenum (mg/kg)	TTLC Nickel (mg/kg)	TTLC Selenium (mg/kg)	TTLC Silver (mg/kg)	TTLC Thallium (mg/kg)	TTLC Vanadium (mg/kg)	TTLC Zinc (mg/kg)
B-1, B-2 & B-3	03/19/2012	B1/2/3-0.5	0.5	ND	ND	99.0	ND	ND	11.9	6.47	11.6	ND	ND	ND	ND	ND	ND	ND	39.9	46.7
B-4, B-5 & B-6	03/19/2012	B4/5/6-0.5	0.5	ND	ND	107	ND	ND	12.7	7.14	13.4	ND	ND	ND	3.56	ND	ND	ND	43.7	47.0
B-7, B-8 & B-9	03/19/2012	B7/8/9-0.5	0.5	ND	ND	89.5	ND	ND	8.59	5.12	9.47	ND	ND	ND	ND	ND	ND	ND	30.0	39.0
B-10, B-11 & B-12	05/09/2012	B10/11/12-0.5	0.5	ND	ND	107	ND	ND	11.6	6.07	10.8	ND	ND	ND	6.54	ND	ND	ND	38.6	36.2
		B10/11/12-0.5 DUP	0.5	ND	ND	106	ND	ND	10.4	5.65	10.0	ND	ND	ND	7.24	ND	ND	ND	33.1	34.8
B-13, B-14 & B-15	05/09/2012	B13/14/15-0.5	0.5	ND	ND	103	ND	ND	11.2	6.35	10.2	ND	ND	ND	5.59	ND	ND	ND	39.7	35.4
B-16, B-17 & B-18	05/09/2012	B16/17/18-0.5	0.5	ND	ND	93.7	ND	ND	10.0	6.69	11.7	ND	ND	ND	3.01	ND	ND	ND	36.8	38.3
B-19, B-20 & B-21	05/09/2012	B19/20/21-0.5	0.5	ND	ND	114	ND	ND	12.6	7.82	15.1	ND	ND	ND	4.17	ND	ND	ND	41.6	48.1
B-22, B-23 & B-24	05/09/2012	B22/23/24-0.5	0.5	ND	ND	104	ND	ND	10.4	6.10	12.3	ND	ND	ND	2.87	ND	ND	ND	35.8	43.8
B-25, B-26 & B-27	05/09/2012	B25/26/27-0.5	0.5	ND	ND	110	ND	ND	10.4	6.67	12.7	ND	ND	ND	ND	ND	ND	ND	35.9	44.5
B-28, B-29 & B-30	05/09/2012	B28/29/30-0.5	0.5	ND	ND	113	ND	ND	11.2	7.17	13.1	ND	ND	ND	2.52	ND	ND	ND	38.2	47.7
B-31, B-32 & B-33	05/09/2012	B31/32/33-0.5	0.5	ND	ND	106	ND	ND	10.4	5.20	11.6	ND	ND	ND	3.17	ND	ND	ND	27.6	47.0
B-34 & B-35	05/09/2012	B34/35-0.5	0.5	ND	ND	131	ND	ND	12.3	7.74	13.9	ND	ND	ND	3.38	ND	ND	ND	41.3	48.5
Site Maximum Concentration ¹				0.250	0.248	131	0.180	0.119	12.7	7.82	15.1	0.192	0.0062	0.274	7.24	0.234	0.414	0.432	43.7	48.5
Practical Quantitation Limit (PQL)				1.0	0.3	5.0	0.5	0.5	0.5	1.0	1.0	0.5	0.01	5.0	2.5	1.0	1.0	1.0	5.0	0.5
Method Detection Limit (MDL)				0.250	0.248	0.143	0.180	0.119	0.138	0.156	0.203	0.192	0.0062	0.274	0.165	0.234	0.414	0.432	0.171	0.131
California Human Health Screening Level for Residential Land Use (CHHSL-R)				10 ²	4 ²⁴	1,733 ²	50 ²	0.57 ²	33,333 ²	220 ²	1,000 ²	27 ²	6 ²	127 ²	533 ²	127 ²	127 ²	1.67 ²	177 ²	7,667 ²
				15 ³	6 ³⁴	2,600 ³	75 ³	0.85 ³	50,000 ³	330 ³	1,500 ³	40 ³	9 ³	190 ³	800 ³	190 ³	190 ³	2.5 ³	265 ³	11,500 ³
Background Metals Concentrations in California Soil ⁵				0.15-1.95	0.6-11.0	133-1,400	0.25-2.70	0.05-1.70	23-1,579	2.7-46.9	9.1-96.4	12.4-97.1	0.05-0.90	0.1-9.6	9-509	0.015-0.430	0.10-8.30	0.17-1.10	39-288	88-236
Total Threshold Limit Concentration				500	500	10,000	75	100	2,500	8,000	2,500	1,000	20	3,500	2,000	100	500	700	2,400	5,000
Soluble Threshold Limit Concentration (STLC, mg/L)				15	5.0	100	0.75	1.0	560(5)	80	25	5.0	0.2	350	20	1.0	1.0	5	24	250
Maximum Concentration of Contaminants for the Toxicity Characteristic (TC, mg/L)				-----	5.0	100	-----	1.0	5	-----	-----	5.0	0.2	-----	-----	1.0	5	-----	-----	-----

ND - Not Detected above the MDL.
bgs - below ground surface
mg/kg - milligrams per kilogram
mg/L - milligrams per liter

2 - Reduced to ~1/2 for Comparison to 3-Sample Composite
3 - Reduced to ~1/3 for Comparison to 2-Sample Composite
4 - Department of Toxic Substances Control Soil Screening Level
5 - Background Concentrations of Trace and Major Elements in California Soils (Kearney Foundation of Soil Science, March 1996)

Table 1A
2012 RCDEH Soil Sample Analytical Results for Total Threshold Limit Concentration Metals
Proposed Santa Rosa Academy
Menifee, CA

Total Threshold Limit Concentration (TTL) Metals - EPA Methods 6010B/7471A																					
Boring ID	Sample Date	Composite Sample ID	Discrete Sample ID	Sample Depth (feet, bgs)	TTL Arsenic (mg/kg)	TTL Barium (mg/kg)	TTL Beryllium (mg/kg)	TTL Cadmium (mg/kg)	TTL Chromium (mg/kg)	TTL Cobalt (mg/kg)	TTL Copper (mg/kg)	TTL Lead (mg/kg)	TTL Mercury (mg/kg)	TTL Molybdenum (mg/kg)	TTL Nickel (mg/kg)	TTL Selenium (mg/kg)	TTL Silver (mg/kg)	TTL Thallium (mg/kg)	TTL Vanadium (mg/kg)	TTL Zinc (mg/kg)	
B-28, B-29 & B-30	05/09/2012	B28/29/30-0.5		0.5	ND	113	ND	ND	11.2	7.17	13.1	ND	ND	ND	2.52	ND	ND	ND	38.2	47.7	
			B28-1 ¹	1	ND(10)	140	ND(5.0)	ND(5.0)	14	ND(10)	13	ND(10)	ND(0.20)	ND(10)	ND(10)	ND(10)	ND(50)	ND(10)	53	46	
			B29-1 ¹	1	ND(10)	88	ND(5.0)	ND(5.0)	ND(10)	ND(10)	ND(10)	ND(10)	ND(0.20)	ND(10)	ND(10)	ND(10)	ND(50)	ND(10)	41	32	
			B30-1 ¹	1	ND(10)	130	ND(5.0)	ND(5.0)	12	ND(10)	12	ND(10)	ND(0.20)	ND(10)	ND(10)	ND(10)	ND(50)	ND(10)	51	42	
B-31, B-32 & B-33	05/09/2012	B31/32/33-0.5		0.5	ND	106	ND	ND	10.4	5.20	11.6	ND	ND	ND	3.17	ND	ND	ND	27.6	47.0	
			B31-1 ¹	1	ND(10)	78	ND(5.0)	ND(5.0)	ND(10)	ND(10)	ND(10)	ND(10)	ND(0.20)	ND(10)	ND(10)	ND(10)	ND(50)	ND(10)	34	28	
Practical Quantitation Limit (PQL)					1.0	0.3	0.5	0.5	0.5	1.0	1.0	0.5	0.01	5.0	2.5	1.0	1.0	1.0	5.0	0.5	
Method Detection Limit (MDL)					0.250	0.248	0.143	0.180	0.138	0.156	0.203	0.192	0.0062	0.274	0.165	0.234	0.414	0.432	0.171	0.131	
California Human Health Screening Level for Residential Land Use (CHHSL-R)					30 ²	12 ²⁴	2,600 ²	150 ²	1.7 ²	660 ²	3,000 ²	80 ²	18 ²	380 ²	1,600 ²	380 ²	380 ²	5 ²	530 ²	23,000 ²	
					10 ³	4 ^{3,4}	1,733 ²	50 ³	0.57 ³	220 ³	1,000 ³	27 ³	6 ³	127 ³	533 ³	127 ³	127 ³	1.67 ³	177 ³	7,667 ³	
Background Metals Concentrations in California Soil ⁵					0.15-1.95	0.6-11.0	133-1,400	0.25-2.70	0.05-1.70	2.7-46.9	9.1-96.4	12.4-97.1	0.05-0.90	0.1-9.6	9-509	0.015-0.430	0.10-8.30	0.17-1.10	39-288	88-236	
Total Threshold Limit Concentration					500	500	10,000	75	100	2,500	2,500	1,000	20	3,500	2,000	100	500	700	2,400	5,000	
Soluble Threshold Limit Concentration (STLC, mg/L)					15	5.0	100	0.75	1.0	560(5)	80	25	5.0	0.2	350	20	1.0	5	7.0	24	250
Maximum Concentration of Contaminants for the Toxicity Characteristic (TC, mg/L)					-----	5.0	100	-----	5	-----	-----	5.0	0.2	-----	-----	1.0	5	-----	-----	-----	

ND - Not Detected above the MDL.
ND(%) - Not Detected above the listed Reporting Detection Limit

1 - Analyzed by Babcock & Sons, Inc. for RCDEH.
2 - Unreduced for Comparison to Discrete Sample
3 - Reduced to -1/2 for Comparison to 3-Sample Composite

4 - Department of Toxic Substances Control Soil Screening Level
5 - Background Concentrations of Trace and Major Elements in California Soils (Kearney Foundation of Soil Science, March 1986)

Table 2
2012 Soil Sample Analytical Results for Total Threshold Limit Concentration Arsenic
Proposed Santa Rosa Academy
Menifee, CA

Boring ID	Sample Date	Composite Sample ID	Discrete Sample ID	Sample Depth (feet, bgs)	TTLc Arsenic EPA Method 6010B (mg/kg)
B-1, B-2 & B-3	03/19/2012	B1/2/3-0.5	-----	0.5	ND
B-1	03/19/2012	-----	B1-0.5	0.5	ND
B-4, B-5 & B-6	03/19/2012	B4/5/6-0.5	-----	0.5	ND
B-4	03/19/2012	-----	B4-0.5	0.5	ND
B-7, B-8 & B-9	03/19/2012	B7/8/9-0.5	-----	0.5	ND
B-7	03/19/2012	-----	B7-0.5	0.5	ND
B-10, B-11 & B-12	05/09/2012	B10/11/12-0.5	-----	0.5	ND
		B10/11/12-0.5 DUP	-----	0.5	ND
B-11	05/09/2012	-----	B11-0.5	0.5	ND
		-----	D1	0.5	ND
B-13, B-14 & B-15	05/09/2012	B13/14/15-0.5	-----	0.5	ND
B-13	05/09/2012	-----	B13-0.5	0.5	ND
B-16, B-17 & B-18	05/09/2012	B16/17/18-0.5	-----	0.5	ND
B-16	05/09/2012	-----	B16-0.5	0.5	ND
B-19, B-20 & B-21	05/09/2012	B19/20/21-0.5	-----	0.5	ND
B-19	05/09/2012	-----	B19-0.5	0.5	ND
B-22, B-23 & B-24	05/09/2012	B22/23/24-0.5	-----	0.5	ND
B-22	05/09/2012	-----	B22-0.5	0.5	ND
B-25, B-26 & B-27	05/09/2012	B25/26/27-0.5	-----	0.5	ND
B-25	05/09/2012	-----	B25-0.5	0.5	ND
B-28, B-29 & B-30	05/09/2012	B28/29/30-0.5	-----	0.5	ND
B-28	05/09/2012	-----	B28-0.5	0.5	ND
B-31, B-32 & B-33	05/09/2012	B31/32/33-0.5	-----	0.5	ND
B-31	05/09/2012	-----	B31-0.5	0.5	ND
B-34 & B-35	05/09/2012	B34/35-0.5	-----	0.5	ND
B-34	05/09/2012	-----	B34-0.5	0.5	ND
Practical Quantitation Limit (PQL)					0.3
Method Detection Limit (MDL)					0.248
Department of Toxic Substances Control Soil Screening Level					12
					4 ¹
					6 ²
Total Threshold Limit Concentration (TTLc)					500
Soluble Threshold Limit Concentration (STLC, mg/L)					5.0
Maximum Concentration of Contaminants for the Toxicity Characteristic (TC, mg/L)					5.0

ND - Not Detected above the MDL.
mg/kg - milligrams per kilogram
mg/L - milligrams per liter

bgs - below ground surface
1 - Reduced to 1/3 for Comparison to 3-Sample Composite
2 - Reduced to 1/2 for Comparison to 2-Sample Composite

Table 3
2012 Composite Soil Sample Analytical Results for Organochlorine Pesticides
Proposed Santa Rosa Academy
Menifee, CA

Boring ID	Sample Date	Composite Sample ID	Sample Depth (feet, bgs)	Organochlorine Pesticides (OCPs) EPA Method 8081A	
				DDE (mg/kg)	All Other OCPs (mg/kg)
B-1, B-2 & B-3	03/19/2012	B1/2/3-0.5	0.5	0.002	ND
		B1/2/3-3	3	ND	ND
B-4, B-5 & B-6	03/19/2012	B4/5/6-0.5	0.5	0.005	ND
		B4/5/6-3	3	ND	ND
B-7, B-8 & B-9	03/19/2012	B7/8/9-0.5	0.5	0.005	ND
		B7/8/9-3	3	ND	ND
B-10, B-11 & B-12	05/09/2012	B10/11/12-0.5	0.5	0.001	ND
		B10/11/12-0.5 DUP	0.5	0.001	ND
B-13, B-14 & B-15	05/09/2012	B13/14/15-0.5	0.5	0.002	ND
B-16, B-17 & B-18	05/09/2012	B16/17/18-0.5	0.5	0.006	ND
B-19, B-20 & B-21	05/09/2012	B19/20/21-0.5	0.5	0.005	ND
B-22, B-23 & B-24	05/09/2012	B22/23/24-0.5	0.5	0.013	ND
B-25, B-26 & B-27	05/09/2012	B25/26/27-0.5	0.5	0.006	ND
B-28, B-29 & B-30	05/09/2012	B28/29/30-0.5	0.5	0.006	ND
B-31, B-32 & B-33	05/09/2012	B31/32/33-0.5	0.5	0.003	ND
B-34 & B-35	05/09/2012	B34/35-0.5	0.5	0.004	ND
		B34/35-0.5 DUP	0.5	0.003	ND
Practical Quantitation Limit (PQL)				0.001	0.001 - 0.020
Method Detection Limit (MDL)				0.0001	0.0001 - 0.0020
California Human Health Screening Level for Residential Land Use (CHHSL-R)				0.530 ¹	0.010 - 120 ¹
				0.800 ²	0.016 - 180 ²
Total Threshold Limit Concentration (TTLC)				1.0	0.2 - 100
Soluble Threshold Limit Concentration (STLC, mg/L)				0.1	0.02 - 10
Maximum Concentration of Contaminants for the Toxicity Characteristic (TC, mg/L)				-----	0.008 - 10.0

ND - Not Detected above the MDL.
mg/kg - milligrams per kilogram
mg/L - milligrams per liter
bgs - below ground surface

DDE - 4,4'-dichlorodiphenyldichloroethylene
1 - Reduced to ~1/3 for Comparison to 3-Sample Composite
2 - Reduced to 1/2 for Comparison to 2-Sample Composite

Table 3A

2012 RCDEH Soil Sample Analytical Results for Organochlorine Pesticides

Proposed Santa Rosa Academy
Menifee, CA

Boring ID	Sample Date	Composite Sample ID	Discrete Sample ID	Sample Depth (feet, bgs)	Organochlorine Pesticides (OCPs) EPA Method 8081A		
					DDE (mg/kg)	All Other OCPs (mg/kg)	
B-28, B-29 & B-30	05/09/2012	B28/29/30-0.5		0.5	0.006	ND	
			B28-1 ¹	1	0.024	ND (0.0020 - 0.080)	
			B29-1 ¹	1	ND (0.0030)	ND (0.0020 - 0.080)	
			B30-1 ¹	1	0.0048	ND (0.0020 - 0.080)	
B-31, B-32 & B-33	05/09/2012	B31/32/33-0.5		0.5	0.003	ND	
			B31-1 ¹	1	ND (0.0030)	ND (0.0020 - 0.080)	
Practical Quantitation Limit (PQL)							
Method Detection Limit (MDL)							
California Human Health Screening Level for Residential Land Use (CHHSL-R)							
Total Threshold Limit Concentration (TTLC)							
Soluble Threshold Limit Concentration (STLC, mg/L)							
Maximum Concentration of Contaminants for the Toxicity Characteristic (TC, mg/L)							
						1.6 ²	0.033 - 360 ²
						0.530 ³	0.010 - 120 ³
						1.0	0.2 - 100
						0.1	0.02 - 10
						-----	0.008 - 10.0

ND - Not Detected above the MDL.

ND(##) - Not Detected above the listed Reporting Detection Limit(s).

mg/kg - milligrams per kilogram

mg/L - milligrams per liter

bgs - below ground surface

DDE - 4,4'-dichlorodiphenyldichloroethylene

1 - Analyzed by Babcock & Sons, Inc. for RCDEH; analytical result reported in

micrograms per kilogram (µg/kg) equal to 0.001 mg/kg.

2 - Unreduced for Comparison to Discrete Sample

3 - Reduced to ~1/3 for Comparison to 3-Sample Composite

Table 4
2012 Soil Sample Analytical Results for Total and E. Coli Coliform

Proposed Santa Rosa Academy
Menifee, CA

Boring ID	Sample Date	Sample ID	Sample Depth (feet, bgs)	Total Coliform Method SM 9221-B (MPN/g)	E. coli Coliform Method SM 9221-F (MPN/g)
B-10	05/09/2012	B10-0.5	0.5	8.00	<2
B-11	05/09/2012	B11-0.5	0.5	<2	<2
		D1	0.5	<2	<2
B-12	05/09/2012	B12-0.5	0.5	<2	<2
B-13	05/09/2012	B13-0.5	0.5	<2	<2
B-14	05/09/2012	B14-0.5	0.5	<2	<2
B-15	05/09/2012	B15-0.5	0.5	<2	<2
B-16	05/09/2012	B16-0.5	0.5	<2	<2
B-17	05/09/2012	B17-0.5	0.5	<2	<2
B-18	05/09/2012	B18-0.5	0.5	<2	<2
B-19	05/09/2012	B19-0.5	0.5	<2	<2
		D3	0.5	<2	<2
B-20	05/09/2012	B20-0.5	0.5	<2	<2
B-21	05/09/2012	B21-0.5	0.5	<2	<2
B-22	05/09/2012	B22-0.5	0.5	<2	<2
B-23	05/09/2012	B23-0.5	0.5	<2	<2
B-24	05/09/2012	B24-0.5	0.5	>16,000 ¹	>16,000 ¹
	05/16/2012	B24-0.5 DUP	0.5	7,000	4,900
	05/16/2012	B24-2 DUP	2	<2	<2
B-24A	05/16/2012	B24A-0.5	0.5	<2	<2
B-24B	05/16/2012	B24B-0.5	0.5	<2	<2
B-24C	05/16/2012	B24C-0.5	0.5	<2	<2
B-24D	05/16/2012	B24D-0.5	0.5	<2	<2
B-24E (B-24E D)	05/25/2012	B24E-0.5	0.5	<2	<2
	06/06/2012	B24E-0.5D	0.5	<2	<2
B-24F	05/25/2012	B24F-0.5	0.5	<2	<2
B-24G	05/25/2012	B24G-0.5	0.5	<2	<2
B-25	05/09/2012	B25-0.5	0.5	<2	<2
		D5	0.5	<2	<2
B-26	05/09/2012	B26-0.5	0.5	<2	<2
B-27	05/09/2012	B27-0.5	0.5	<2	<2
B-28	05/09/2012	B28-0.5	0.5	2.00	<2
		B28-1 ^z	1	4.00	ND (2.0)
B-29	05/09/2012	B29-0.5	0.5	<2	<2
		B29-1 ^z	1	ND (2.0)	ND (2.0)
B-30	05/09/2012	B30-1 ^z	1	ND (2.0)	ND (2.0)
		B31-0.5	0.5	<2	<2
		B31-1 ^z	1	ND (2.0)	ND (2.0)
B-31	05/09/2012	B31-0.5	0.5	<2	<2
B-32	05/09/2012	B32-0.5	0.5	<2	<2
B-33	05/09/2012	B33-0.5	0.5	<2	<2
B-34	05/09/2012	B34-0.5	0.5	<2	<2
B-35	05/09/2012	B35-0.5	0.5	<2	<2
Reporting Detection Limit (RDL)				2	2

<2 - Less than the RDL, negative or Not Detected (ND).

ND(2.0) - Not Detected above 2.0 MPN/g RDL.

MPN/g - Most Probable Number per gram

Converse Project No. 12-16-115-02

bgs - below ground surface
1 - Analytical result superseded by B24-0.5 DUP.
2 - Analyzed by Babcock & Sons, Inc. for RCDEH.

Table 5
2004 Agricultural Composite Soil Sample Analytical Results for Total Petroleum Hydrocarbons, Pesticides and Herbicides
Proposed Santa Rosa Academy
Menifee, CA

Boring ID	Sample Date	Composite Sample ID	Sample Depth (feet, bgs)	Total Petroleum Hydrocarbons (TPH) EPA Method 8015M					Organochlorine Pesticides (OCPs) EPA Method 8081A		Organophosphorous Pesticides (OPPs) EPA Method 8141A	Chlorinated Herbicides (CHs) EPA Method 8151A
				C4-C10 (Gasoline) (mg/kg)	C8-C16 (Kerosene) (mg/kg)	C11-C22 (Diesel) (mg/kg)	C23-C35 (Motor Oil) (mg/kg)	DDE (mg/kg)	All Other OCPs (mg/kg)			
AG-1A, AG-1B, AG-1C & AG-1D	12/03/2004	AG-1A/1B/1C/1D-0.5	0.5	ND	ND	ND	ND	ND	0.015	ND	ND	ND
		AG-1A/1B/1C/1D-2	2	ND	ND	ND	ND	ND	0.014	ND	ND	ND
AG-2A, AG-2B, AG-2C & AG-2D	12/03/2004	AG-2A/2B/2C/2D-0.5	0.5	ND	ND	ND	ND	ND	0.002	ND	ND	ND
		AG-2A/2B/2C/2D-2	2	ND	ND	ND	ND	ND	ND	ND	ND	ND
AG-3A, AG-3B, AG-3C & AG-3D	12/03/2004	AG-3A/3B/3C/3D-0.5	0.5	ND	ND	ND	ND	ND	0.002	ND	ND	ND
		AG-3A/3B/3C/3D-2	2	ND	ND	ND	ND	ND	ND	ND	ND	ND
AG-4A, AG-4B, AG-4C & AG-4D	12/03/2004	AG-4A/4B/4C/4D-0.5	0.5	ND	ND	ND	ND	ND	0.007	ND	ND	ND
		AG-4A/4B/4C/4D-2	2	ND	ND	ND	ND	ND	0.001	ND	ND	ND
Practical Quantitation Limit (PQL)				10	10	10	50	0.001	0.001 - 0.020	0.50 or 4.0	0.020 - 20.0	
California Human Health Screening Level for Residential Land Use (CHSSL-R)									1.6	0.033 - 360		690 or 550
Maximum Soil Screening Level (MSSL)				500	1,000	1,000	10,000	0.400 ¹	0.005 - 90 ¹			173 or 128 ¹
Environmental Screening Level (ESL)				100	100	100	500					
Total Threshold Limit Concentration (TTLC)									1.0	0.2 - 100		10
Soluble Threshold Limit Concentration (STLC, mg/L)									0.1	0.02 - 10		
Maximum Concentration of Contaminants for the Toxicity Characteristic (TC, mg/L)										0.008 - 10.0		1.0

ND - Not Detected above the PQL.
mg/kg - milligrams per kilogram
mg/L - milligrams per liter
bgs - below ground surface
DDE - 4,4'-dichlorodiphenyldichloroethylene
Converse Project No. 12-16-115-02 (04-16-276-01)

1 - Reduced to ~¼ for Comparison to 4-Sample Composite Borings AG-3A and AG-3B were located on the Proposed Santa Rosa Academy Site. MSSL is based on a distance of 20 to 150 feet above groundwater. ESL is Gross Contamination Shallow Soil Screening Level (± 3 m bgs) for Residential Land Use and groundwater as a current or potential drinking resource.

Table 6
2004 Offsite Fill Mound/Pile Soil Sample Analytical Results for Total Threshold Limit Concentration Metals
Proposed Santa Rosa Academy
Menifee, CA

Total Threshold Limit Concentration (TTLC) Metals - EPA Methods 6010B/7471A																					
Boring ID	Sample Date	Sample ID	Sample Depth (feet, bgs)	TTLC Antimony (mg/kg)	TTLC Arsenic (mg/kg)	TTLC Barium (mg/kg)	TTLC Beryllium (mg/kg)	TTLC Cadmium (mg/kg)	TTLC Chromium (mg/kg)	TTLC Cobalt (mg/kg)	TTLC Copper (mg/kg)	TTLC Lead (mg/kg)	TTLC Mercury (mg/kg)	TTLC Molybdenum (mg/kg)	TTLC Nickel (mg/kg)	TTLC Selenium (mg/kg)	TTLC Silver (mg/kg)	TTLC Thallium (mg/kg)	TTLC Vanadium (mg/kg)	TTLC Zinc (mg/kg)	
GP-1	12/03/2004	GP-01-2'	2	ND	2.35	91.4	ND	0.995	7.76	2.73	4.18	5.78	ND	ND	3.60	ND	ND	ND	41.2	38.3	
		GP-01-5'	5	ND	3.10	70.3	ND	0.815	7.62	1.97	3.58	3.58	ND	ND	ND	4.35	ND	ND	25.4	25.8	
		GP-01-10'	10	ND	7.32	82.0	ND	0.852	22.0	3.22	11.0	1.33	ND	ND	ND	11.0	ND	ND	49.0	43.2	
		GP-01-15'	15	ND	1.31	160	ND	0.865	21.5	4.81	9.65	1.49	ND	ND	ND	11.4	ND	ND	41.7	58.1	
GP-2	01/25/2010	GP-02-2'	2	ND	3.59	82.3	ND	0.984	7.94	2.43	5.02	5.92	ND	ND	3.41	ND	ND	ND	41.5	39.0	
		GP-02-5'	5	ND	1.52	78.7	ND	0.783	7.68	2.09	3.34	2.76	ND	ND	ND	3.60	ND	ND	30.1	28.7	
		GP-02-10'	10	ND	8.53	93.2	ND	0.818	25.8	3.17	12.3	1.11	ND	ND	ND	11.4	1.94	ND	49.5	40.8	
		GP-02-15'	15	ND	0.885	121	ND	0.917	15.7	4.83	10.1	1.14	ND	ND	ND	7.24	ND	ND	52.9	46.9	
GP-3	01/28/2010	GP-03-2'	2	ND	1.94	99.7	ND	0.948	7.69	2.42	3.35	4.60	ND	ND	3.38	ND	ND	ND	38.7	35.9	
		GP-03-5'	5	ND	2.04	92.9	ND	0.843	7.35	2.36	3.32	3.76	ND	ND	ND	3.31	ND	ND	33.9	30.1	
		GP-03-10'	10	ND	3.50	83.3	ND	0.860	15.7	5.42	9.61	2.57	ND	ND	ND	5.59	ND	ND	58.9	31.6	
		GP-03-15'	15	ND	ND	129	ND	0.818	28.0	4.94	6.98	1.66	ND	ND	ND	9.27	ND	ND	39.6	37.8	
Maximum Concentration ¹				1.0	8.53	160	0.5	0.995	28.0	5.42	12.3	5.92	0.01	5.0	11.4	1.94	1.0	1.0	58.9	58.1	
Practical Quantitation Limit (PQL)				1.0	0.3	5.0	0.5	0.5	0.5	1.0	1.0	0.5	0.01	5.0	2.5	1.0	1.0	1.0	5.0	0.5	
California Human Health Screening Level for Residential Land Use (CHHSL-R)				30	0.07	5,200	150	1.7	100,000	660	3,000	80	18	380	1,600	380	380	380	5	530	23,000
DTSC Soil Screening Level				-----	12	-----	-----	-----	-----	-----	-----	255	-----	-----	-----	-----	-----	-----	-----	-----	
Total Threshold Limit Concentration				500	500	10,000	75	100	2,500	8,000	2,500	1,000	20	3,500	2,000	100	500	700	2,400	5,000	
Soluble Threshold Limit Concentration (STLC, mg/L)				15	5.0	100	0.75	1.0	560(5)	80	25	5.0	0.2	350	20	1.0	5	7.0	24	250	
Maximum Concentration of Contaminants for the Toxicity Characteristic (TC, mg/L)				-----	5.0	100	-----	1.0	5	-----	-----	5.0	0.2	-----	-----	1.0	5	-----	-----	-----	

ND - Not Detected above the PQL.
mg/kg - milligrams per kilogram
mg/L - milligrams per liter
bgs - below ground surface
DTSC - Department of Toxic Substances Control
1 - PQL (*italics*) used for ND metals.
GP-1 through GP-3 were located on the larger "Property" and northwest of the Proposed Santa Rosa Academy Site.
TTLC arsenic concentration exceeds the CHHSL-R, but is considered to be background.

Table 7
2004 Offsite Fill Mound/Pile Soil Sample Analytical Results for
Total Petroleum Hydrocarbons
Proposed Santa Rosa Academy
Menifee, CA

Boring ID	Sample Date	Sample ID	Sample Depth (feet, bgs)	Total Petroleum Hydrocarbons (TPH) EPA Method 8015M			
				C4-C10 (Gasoline) (mg/kg)	C8-C16 (Kerosene) (mg/kg)	C11-C22 (Diesel) (mg/kg)	C23-C35 (Motor Oil) (mg/kg)
GP-1	12/03/2004	GP-01-2'	2	ND	ND	ND	ND
		GP-01-5'	5	ND	ND	ND	214
		GP-01-10'	10	ND	ND	ND	ND
		GP-01-15'	15	ND	ND	ND	ND
GP-2	12/03/2004	GP-02-2'	2	ND	ND	ND	ND
		GP-02-5'	5	ND	ND	ND	ND
		GP-02-10'	10	ND	ND	ND	ND
		GP-02-15'	15	ND	ND	ND	ND
GP-3	12/03/2004	GP-03-2'	2	ND	ND	ND	ND
		GP-03-5'	5	ND	ND	ND	ND
		GP-03-10'	10	ND	ND	ND	ND
		GP-03-15'	15	ND	ND	ND	ND
Practical Quantitation Limit (PQL)				10	10	10	50
Maximum Soil Screening Level (MSSL)				500	1,000	1,000	10,000
Environmental Screening Level (ESL)				100	100	100	500

ND - Not Detected above the PQL.

mg/kg - milligrams per kilogram

bgs - below ground surface

MSSL is based on a distance of 20 to 150 feet above groundwater.

ESL is Gross Contamination Shallow Soil Screening Level (≤ 3 m bgs) for Residential Land Use and groundwater as a current or potential drinking resource.

GP-1 through GP-3 were located on the larger "Property" and northwest of the Proposed Santa Rosa Academy Site.

Table 9
Risk Calculations for Total Threshold Limit Concentration Metals
Proposed Santa Rosa Academy
Menifee, CA

Total Threshold Limit Concentration (TTLC) Metals - EPA Methods 6010B/7471A																				
Site Maximum Concentrations	Detections	TTLC Antimony (mg/kg)	TTLC Barium (mg/kg)	TTLC Beryllium (mg/kg)	TTLC Cadmium (mg/kg)	TTLC Chromium (mg/kg)	TTLC Cobalt (mg/kg)	TTLC Copper (mg/kg)	TTLC Lead (mg/kg)	TTLC Mercury (mg/kg)	TTLC Molybdenum (mg/kg)	TTLC Nickel (mg/kg)	TTLC Selenium (mg/kg)	TTLC Silver (mg/kg)	TTLC Thallium (mg/kg)	TTLC Vanadium (mg/kg)	TTLC Zinc (mg/kg)	Total Site Risk Index	Total Site Risk	
		0	13	0	0	13	13	13	0	0	0	10	0	0	0	0	13			13
		0.250	131	0.180	0.119	12.7	7.82	15.1	0.192	0.0062	0.274	7.24	0.234	0.414	0.432	43.7	48.5			
	Risk Index	0.025	0.050	0.0036	0.209	0.00038	0.036	0.015	0.0071	0.0010	0.0022	0.014	0.0018	0.0033	0.259	0.247	0.0063	0.880	8.80E-07	
Site Maximum Concentrations w/o NDs	Detections	0	13	0	0	13	13	13	0	0	0	13	0	0	0	13	13	3.68E-07		
	EPC ¹	ND	131	ND	ND	12.7	7.82	15.1	ND	ND	ND	7.24	ND	ND	ND	43.7	48.5			
	Risk Index	0	0.050	0	0	0.00038	0.036	0.015	0	0	0	0.014	0	0	0	0.247	0.0063			
Method Detection Limit (MDL)		0.250	0.143	0.180	0.119	0.138	0.156	0.203	0.192	0.0062	0.274	0.165	0.234	0.414	0.432	0.171	0.131			
Three-Sample CHHSL-R ³		10		50	0.57	33,333	220	1,000	27	6	127	533	127	127	1.67	177	7,667			
Two-Sample CHHSL-R ⁴			2,600																	

EPC - Exposure Point Concentration

ND - Not Detected above the MDL

mg/kg - milligrams per kilogram

CHHSL-R - California Human Health Screening Level for Residential Land Use

1 - Site Maximum Concentrations used as EPCs for detected TTLC metals.

2 - MDLs (*italics*) used as EPCs for ND TTLC metals.

3 - CHHSL-R reduced to ~½ for 3-Sample Composite

4 - CHHSL-R reduced to ~½ for 2-Sample Composite

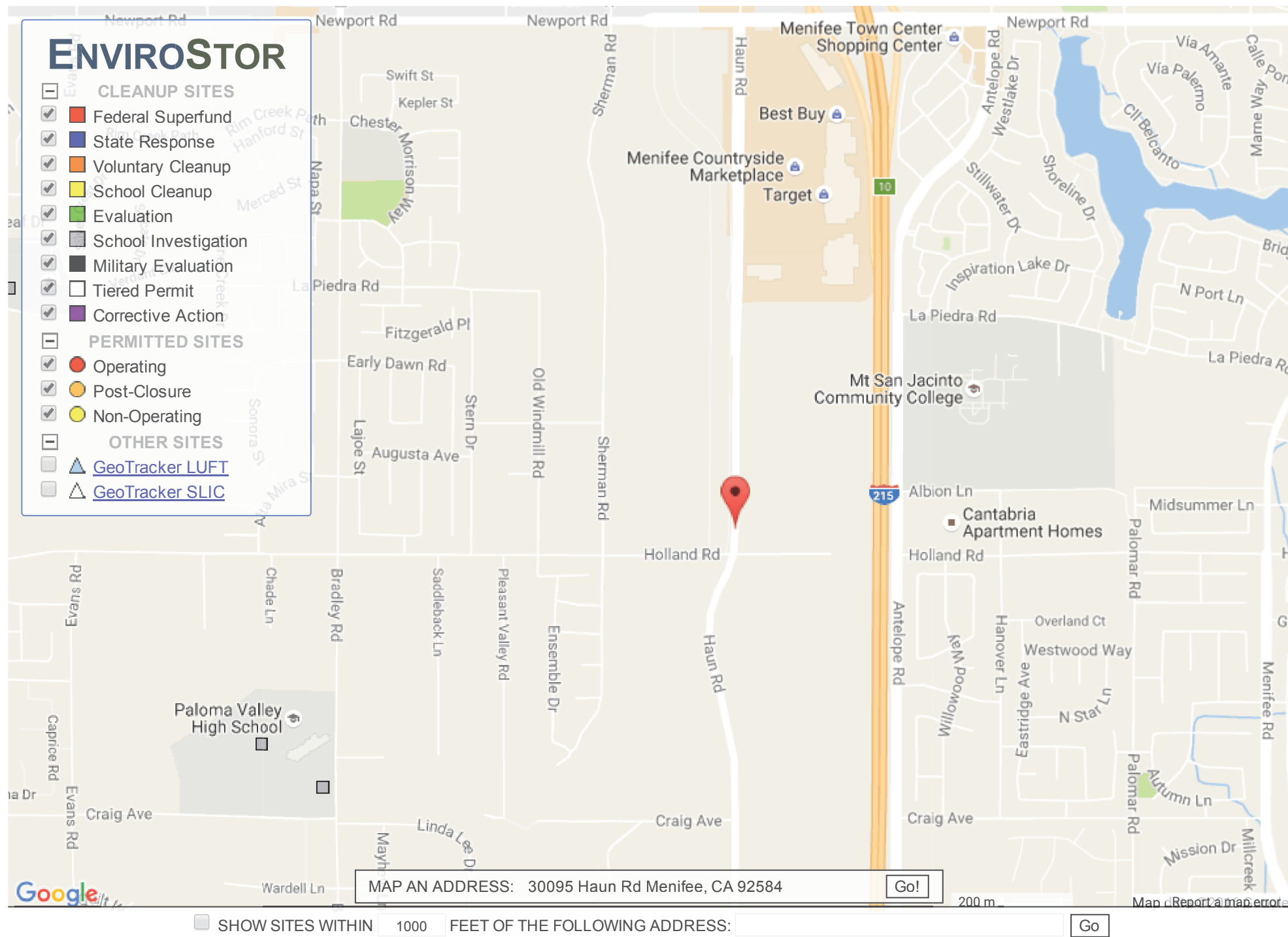
Site Maximum Concentrations for all TTLC metals (except TTLC barium) are in 3-sample composites.

Site Maximum Concentration for TTLC barium is in a 2-sample composite.

Table 10
Risk Calculations for Organochlorine Pesticides
Proposed Santa Rosa Academy
Menifee, CA

Organochlorine Pesticides (OCPs) EPA Method 8081A														Total Site Risk Index	Total Site Risk
DDE (mg/kg)	aldrin (mg/kg)	Technical chlordane (mg/kg)	DDD (mg/kg)	DDT (mg/kg)	dieldrin (mg/kg)	endrin (mg/kg)	heptachlor (mg/kg)	heptachlor epoxide (mg/kg)	lindane (mg/kg)	methoxychlor (mg/kg)	toxaphene (mg/kg)				
Detections	14	0	0	0	0	0	0	0	0	0	0	0			
Site Maximum Concentrations	EPC ^{1,2}	0.013	0.0001	0.0005	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0020			
	Risk Index	0.0245	0.010	0.0036	0.000132	0.00019	0.010	0.0000143	0.0025	0.0006	0.00000088	0.0130		7.03E-08	
Site Maximum Concentrations w/o NDs	Detections	14	0	0	0	0	0	0	0	0	0	0			
	EPC ¹	0.013	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			
	Risk Index	0.0245	0	0	0	0	0	0	0	0	0	0			
Method Detection Limit (MDL)		0.0001	0.0001	0.0005	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0020		0.0245	
Three-Sample CHHSL-R ³		0.530	0.010	0.140	0.760	0.530	0.010	7.0	0.040	0.018	0.160	113	0.153		

EPC - Exposure Point Concentration
ND - Not Detected above the MDL
mg/kg - milligrams per kilogram
CHHSL-R - California Human Health Screening Level for Residential Land Use
DDD - 4,4'-Dichlorodiphenyldichloroethane
DDE - 4,4'-Dichlorodiphenyldichloroethylene
DDT - 4,4'-Dichlorodiphenyltrichloroethane
1 - Site Maximum Concentration used as EPC for only detected OCP (DDE).
2 - MDLs (italics) used as EPCs for ND OCPs.
3 - CHHSL-R reduced to ~1/2 for 3-Sample Composite
Site Maximum Concentration for DDE (the only detected OCP) is in a 3-sample composite.

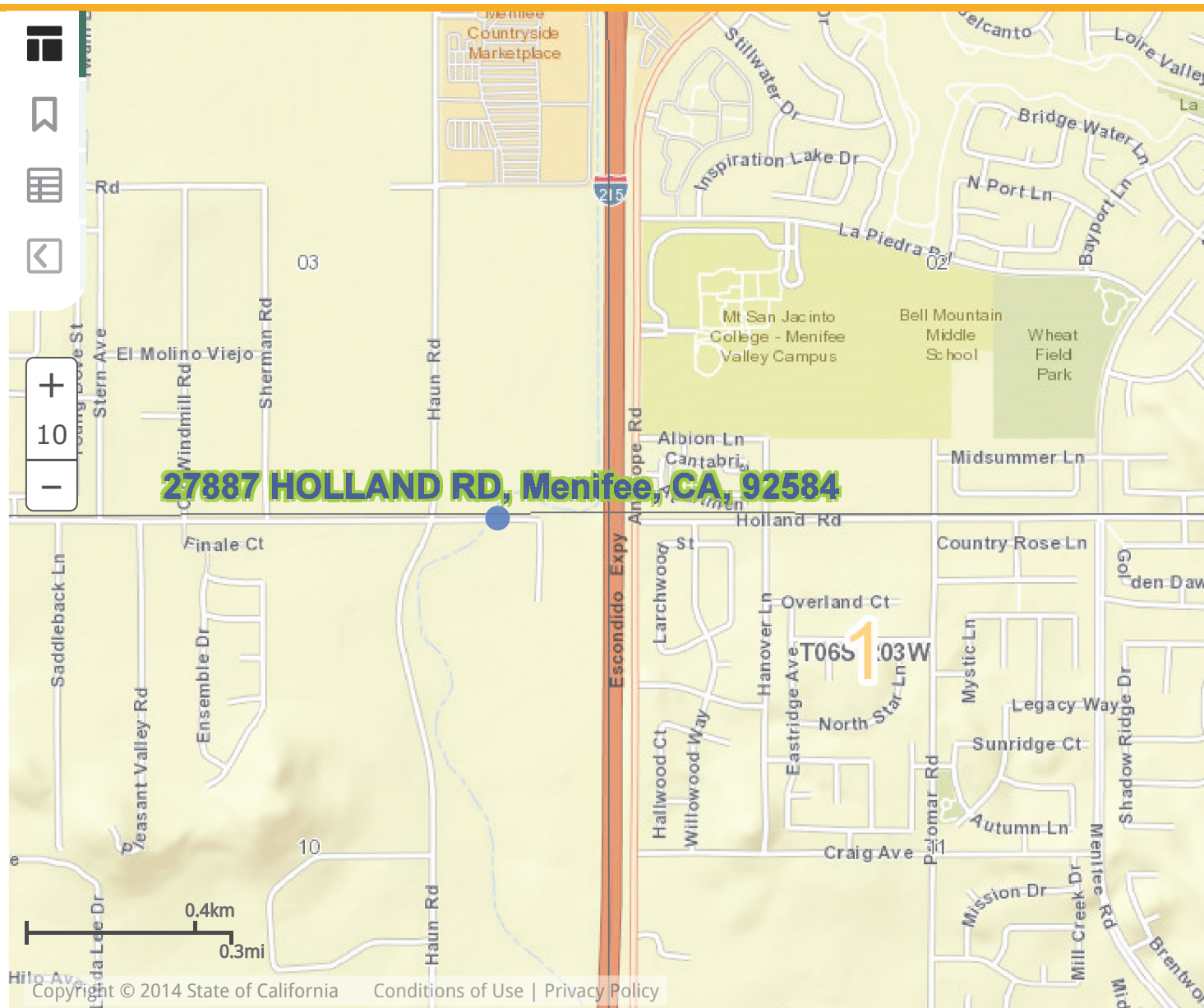


☐ SITES CURRENTLY VISIBLE ON MAP

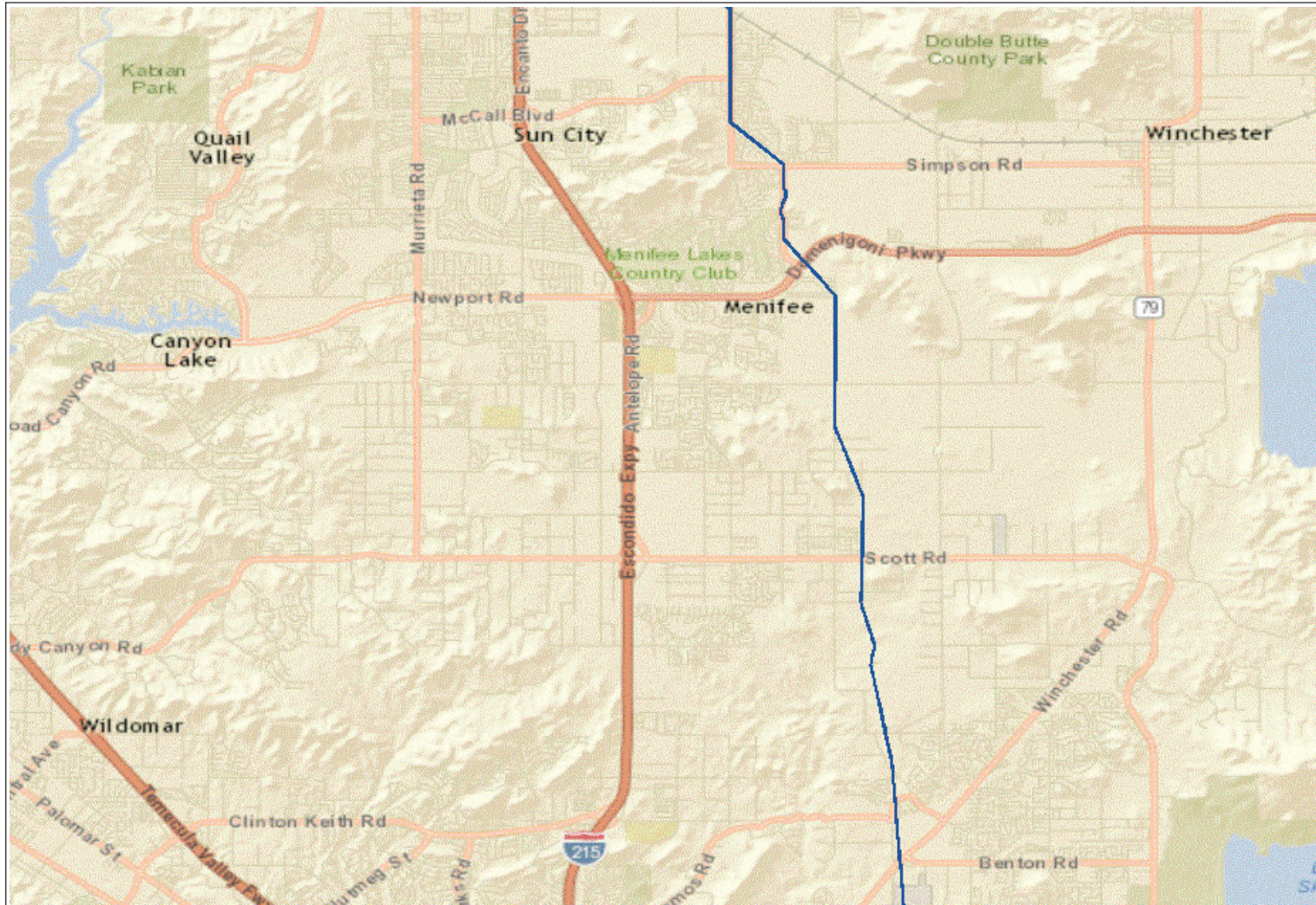


Department of Conservation

Division of Oil, Gas & Geothermal Resources Well Finder



NATIONAL PIPELINE MAPPING SYSTEM



Legend

- Gas Transmission Pipelines
- Hazardous Liquid Pipelines

0 0.9 Miles

Pipelines depicted on this map represent gas transmission and hazardous liquid lines only. Gas gathering and gas distribution systems are not represented.

This map should never be used as a substitute for contacting a one-call center prior to excavation activities. Please call 811 before any digging occurs.

Questions regarding this map or its contents can be directed to npms-nr@mbakercorp.com.

Projection: Geographic

Datum: NAD83

Map produced by the NPMS Public Viewer at www.npms.phmsa.dot.gov

Date Printed: Sep 23, 2016





EASTERN MUNICIPAL WATER DISTRICT

Your 2015 Water Quality

CONSUMER CONFIDENCE REPORT

Issued July 2016

Why You Should Read This Report

THIS YEAR'S DRINKING WATER QUALITY REPORT...

Examines how EMWD ensures your drinking water is safe, high quality, and reliable.

Provides science-based data and facts about the sources, quality, and safety of your drinking water.

Explains how customers can always choose how they wish to receive future water quality reports.

Our Continuing Commitment to You

EMWD AND ITS TRAINED, CERTIFIED WATER QUALITY PROFESSIONALS ARE COMMITTED TO...

Providing high quality, safe drinking water at the lowest price possible.

Monitoring and testing the water we serve to optimize quality and ensure it is always safe to drink.

Finding and developing new water supply sources to ensure continued reliability for our customers.

Providing educated staff to answer any questions from our customers.

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Unregulated contaminants
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Get your report electronically

OUR MISSION

To deliver value to our customers and the communities we serve by providing safe, reliable, economical and environmentally sustainable water, wastewater and recycled water services.

OUR VISION

To provide essential services to our community at a level that exceeds the performance of any other public or private agency.

Eastern Municipal Water District (EMWD) wants you, our valued customer, to be confident your drinking water is safe. This annual water quality report provides important information about the source(s) of your water and the tests used to ensure your tap water is safe and healthy to drink.

This report contains important information about the quality of your water. If you would like to obtain this information in Spanish, visit us at www.emwd.org and select "Español" or call (951) 928-3777 ext. 4221 for a Spanish copy by mail.

Este informe contiene información importante con sobre la calidad de su agua. Si usted desea obtener información en español, visítenos en www.emwd.org y seleccione "Español" o llame (951) 928-3777, ext. 4221 para solicitar una copia por correo.

A Message from the General Manager

Dear Valued EMWD Customer,

Once again, it is our pleasure to present Eastern Municipal Water District's (EMWD) annual water quality report. We're happy to report that EMWD continued to provide customers consistently high quality drinking water throughout 2015, and met or surpassed all drinking water quality standards established by the U.S. Environmental Protection Agency (EPA) and regulated by the California State Water Resources Control Board (State Board).

Protecting public health with a high quality water supply is our top priority. EMWD achieves such high quality tap water by managing our water sources, using state-of-the-art water treatment processes, efficiently maintaining and operating our facilities, and conducting rigorous monitoring and testing of the water we serve. Water samples are collected throughout the year from EMWD's 31 drinking water sources to carefully test for 200 contaminants and impurities. In 2015, EMWD's laboratory personnel collected 6,319 water samples and performed 44,333 tests to monitor and ensure quality.

While groundwater or surface waters can have trace measurable contaminants, EMWD protects your health and safety by treating or otherwise ensuring the water we deliver meets or surpasses all regulated drinking water standards. EMWD supports science-based standards that provide health benefits to the public in an economically balanced manner.

The State Board requires that EMWD customers receive a copy of this report which summarizes the results of water quality tests and provides – among other important information such as EMWD's current drought status – specific details about sources and quality of the water served in your community. The guidelines for distributing this report allow for electronic delivery of the report instead of a paper copy in the mail. By delivering these reports electronically, we are able to reduce costs and eliminate unwanted paper waste associated with printing and mailing the full report to our more than 144,000 accounts.

Please note that you may change your delivery preference at any time, and EMWD will gladly furnish customers with a paper copy of this report upon request through our web site at www.emwd.org/ccr or by calling us at (951) 928-3777, extension 4378.

We strongly encourage you to read this report and if you have any water quality questions, please feel free to contact Amy Mora, Senior Environmental Analyst, at (951) 928-3777, extension 6337. We also encourage you to make note of the drought status information and get the latest updates on our website at www.emwd.org/drought.

Thank you for being a customer of EMWD – we're here to serve you.



Paul D. Jones II, P.E.
GENERAL MANAGER
EASTERN MUNICIPAL WATER DISTRICT



This report contains important and useful information about the sources, quality, and safety of your drinking water and describes how EMWD meets all drinking water standards as set by the U.S. Environmental Protection Agency (EPA) and enforced by the California State Water Resources Control Board (State Board).



About Regulations

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

CONTAMINANTS THAT MAY BE PRESENT IN SOURCE WATER INCLUDE:

- **MICROBIAL CONTAMINANTS**, such as viruses and bacteria, may come from sewage treatment plants, septic systems, agricultural livestock, and wildlife.
- **INORGANIC CONTAMINANTS**, such as salts and metals, can be naturally occurring or result from urban storm water runoff, industrial or domestic wastewater discharges, oil and gas production, mining or farming.
- **ORGANIC CHEMICAL CONTAMINANTS**, including synthetic and volatile organic chemicals may be by-products of industrial processes or petroleum production, and can also come from gas stations, urban storm water runoff, agricultural application, and septic systems.
- **PESTICIDES AND HERBICIDES** may come from a variety of sources such as agriculture, urban storm water runoff, and residential uses.
- **RADIOACTIVE CONTAMINANTS** can be naturally-occurring or be the result of oil and gas production and mining activities.

ABOUT NITRATE

Nitrate in drinking water at levels above 10 parts per million (ppm) is a health risk for infants of less than six months of age. Such nitrate levels in drinking water can interfere with the capacity of an infant's blood to carry oxygen, resulting in a serious illness; symptoms include shortness of breath and blueness of the skin. Nitrate levels above 10 ppm may also affect the ability of the blood to carry oxygen in other individuals, such as pregnant women and those with certain specific enzyme deficiencies. If you are caring for an infant, or you are pregnant, you should seek advice from your health care provider.

SENSITIVE POPULATIONS

Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised individuals such as those with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, some elderly, and infants can be particularly at risk from infections. These people should seek advice about their drinking water from their health care providers. 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 at **1(800) 426-4791**.

ARSENIC

While your drinking water meets the federal and state standard for arsenic, some of our sources do contain low levels of arsenic. The arsenic standard balances the current understanding of arsenic's possible health effects against the costs of removing arsenic from drinking water. The EPA continues to research the health effects of low levels of arsenic, which is a mineral known to cause cancer in humans at high concentrations and is linked to other health effects such as skin damage and circulatory problems.

UNREGULATED CONTAMINANTS

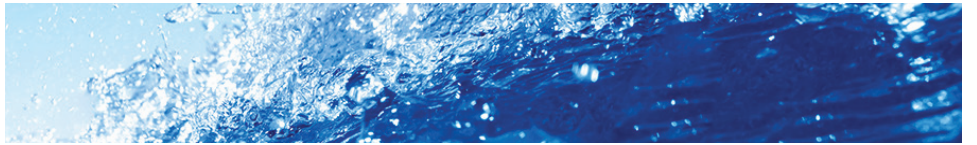
Unregulated contaminant monitoring helps EPA and the State Board determine where certain contaminants occur and whether the contaminants need to be regulated.

LEAD AND COPPER

Lead and copper are rarely found in source waters; however, both of these metals can enter drinking water by leaching from household plumbing and fixtures. Water that sits in your pipes for long periods of time may dissolve tiny amounts of lead and/or copper (parts per billion levels) into household water. The EPA has developed a rule to minimize the levels of these metals in drinking water.

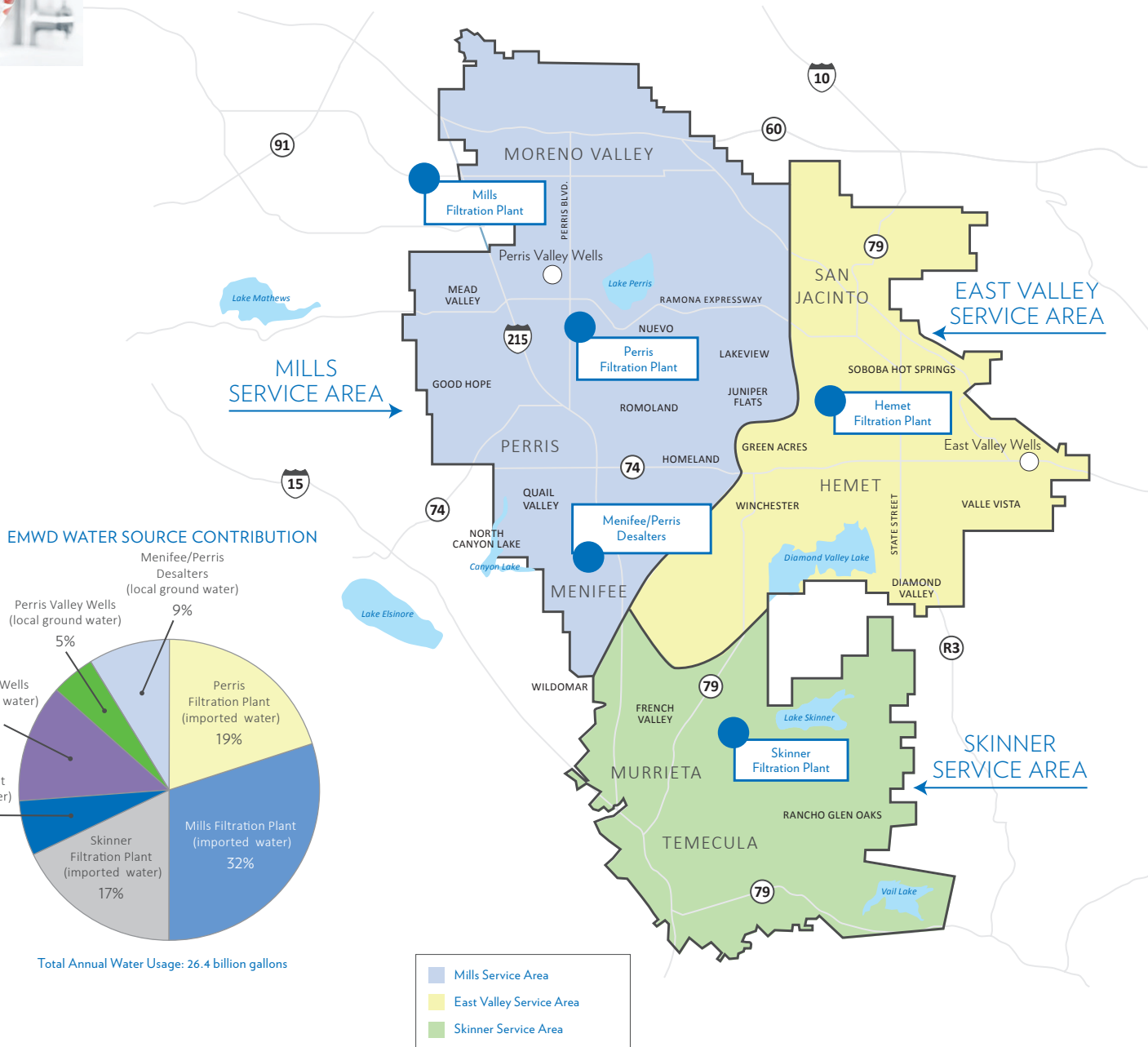
The Lead and Copper Rule was developed to protect public health by establishing an action level of 15 parts per billion (ppb) for lead and 1300 ppb for copper at the tap.

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. EMWD is responsible for providing high quality drinking water, but cannot control the variety of materials used in plumbing components. If your water has been sitting in your household plumbing 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. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline at **1(800) 426-4791** or at www.epa.gov/safewater/lead.

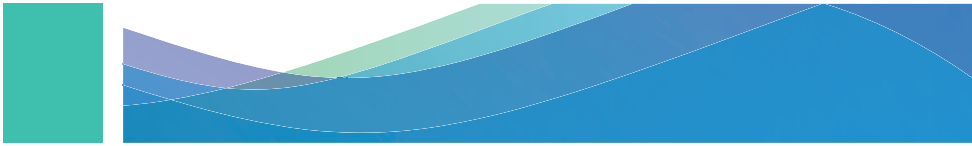


THE SOURCE OF YOUR TAP WATER

To help you find specific details about your tap water, we have organized this report according to the communities we serve.



The Communities We Serve...



COMMUNITIES SERVED

Good Hope
Homeland
Juniper Flats
Lakeview
Mead Valley
Menifee**
Moreno Valley
North Canyon Lake
Nuevo
Perris
Quail Valley
Romoland
Wildomar

MILLS SERVICE AREA | Water for this service area comes from a combination of sources:

- The Henry J. Mills Filtration Plant* treats imported surface water supplied solely from northern California through the State Water Project (SWP). The Mills Filtration Plant uses chloramine for final disinfection.

WATER FROM THE MILLS FILTRATION PLANT IS BLENDED WITH SEVERAL OTHER EMWD WATER SOURCES:

- Three Perris Valley Wells serve a limited area of Perris – along Perris Boulevard south of the Ramona Expressway.
- The Perris Water Filtration Plant (PWFP) treats both Colorado River and SWP waters. However, due to the drought, the PWFP received only Colorado River water in 2015. This plant uses the latest ultrafiltration technology to remove particulate contaminants to produce quality, potable water. The PWFP serves Lakeview, Nuevo, Romoland, Homeland, and Juniper Flats. This plant uses chloramine for final disinfection.
- The Menifee & Perris Desalters convert salty groundwater into potable water using a reverse osmosis process. Menifee, North Canyon Lake, and Quail Valley are the only communities within the Mills Service Area to receive blended water from this desalination plant. The Menifee & Perris Desalters use chloramine for final disinfection.

COMMUNITIES SERVED WEST

Diamond Valley
Green Acres
Hemet
San Jacinto
Winchester***

COMMUNITIES SERVED EAST

Hemet
San Jacinto
Soboba Hot Springs
Valle Vista

EAST VALLEY SERVICE AREA | This service area is split into two regions:

WEST OF STATE STREET:

- The Hemet Water Filtration Plant (HWFP) treats both Colorado River and SWP waters. Due to the drought, the HWFP received only Colorado River water in 2015. This plant uses the latest ultrafiltration technology to remove particulate contaminants and produce quality, drinking water. This treatment plant uses chloramine for final disinfection. Local groundwater also supplies this area.

EAST OF STATE STREET:

- A system of deep groundwater wells serves these communities. These wells are treated by adding free chlorine for final disinfection.

SKINNER SERVICE AREA | Water for this service area comes from:

- The Robert A. Skinner Filtration Plant* treats water from the Colorado River and from the SWP. The Skinner Plant uses chloramine for final disinfection.

* The Mills and Skinner Filtration Plants are owned and operated by The Metropolitan Water District of Southern California (MWD).

** Typically served by Mills Filtration Plant and occasionally served by the Skinner Filtration Plant.

*** Typically served by Hemet Water Filtration Plant and occasionally served by Skinner Filtration Plant.

**** This area is served water produced by Rancho California Water District.

PROTECTING YOUR DRINKING WATER

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 EPA's Safe Drinking Water Hotline at **1(800) 426-4791**.

The sources of drinking water (both tap water and bottled water) 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 from human activity. The land that the water comes into contact with is called the watershed; everything that happens to or in the watershed can affect the quality of your drinking water supply.

EMWD uses several sources of water to serve its customers, including surface water from the Colorado River and the State Water Project (SWP), as well as local groundwater.

An initial assessment of all the watersheds, both surface water and groundwater, was completed in 2002. The Colorado River, a surface water source, was reassessed in 2010 and found to be most vulnerable to recreational activities, urban and storm water runoff, increasing urbanization in the watershed, and wastewater.

Water from the SWP, also a surface water source, was reassessed in 2011 and found to be most vulnerable to urban and storm water runoff, wildlife, agriculture, recreational activities, and wastewater.

An assessment of each of EMWD's wells was completed in 2013. Two sources were considered vulnerable to airports and airplane maintenance associated with a contaminant detected in the water supply. In addition, other EMWD wells were considered most vulnerable to the following due to proximity (not associated with any contaminants): commercial and industrial activities, residential activities, agriculture, and other activities such as recreation and transportation.

You can call EMWD's Water Quality Department at **(951) 928-3777, ext. 3327** for a copy of EMWD's vulnerability assessments.

Protecting the sources of drinking water helps protect our health. It's everyone's responsibility, and here are a few ways you can help:

- Eliminate excess use of lawn and garden fertilizers and pesticides – they contain hazardous chemicals that can reach your drinking water source.
- Pick up after your pets.
- Dispose of chemicals properly; take used motor oil to a recycling center.

Facts about Total Coliform Bacteria

Water agencies test for the presence of coliform bacteria as an indicator of drinking water quality.

Coliform bacteria are naturally present in the environment and are generally not harmful. Coliform bacteria may occur in soil, vegetation, animal waste, sewage, and surface waters.

Eastern Municipal Water District routinely tests for the presence of coliform bacteria as an indicator of the sanitary quality of drinking water. EMWD analyzed 3,046 coliform samples in 2015, one of which was total coliform positive. The maximum allowed by EPA for coliforms is no more than 5 percent in any month. The highest monthly coliform result was 0.4 percent, which complies with this standard. EMWD also tests for *E. coli* bacteria, which indicate fecal or sewage contamination. Zero samples tested positive for *E. coli* in 2015.

We are required to monitor your drinking water for specific contaminants on a regular basis. Results of regular monitoring are an indicator of whether or not your drinking water meets health standards. On January 13, 2016, we did not complete all required monitoring or testing for coliform bacteria, however subsequent samples taken met health standards.

A positive coliform test result does not necessarily mean a maximum contaminant level (MCL) has been exceeded, or that there is a problem in the water system. More information and general guidelines on ways to lessen the risk of infection by microbes are available from the EPA's Safe Drinking Water Hotline at 1(800) 426-4791 or at <http://water.epa.gov/drink/info/>.

ABBREVIATIONS

AL	Action Level	MRDLG	Maximum Residual Disinfectant Level Goal	ppm	parts per million or milligrams per liter (mg/L)
CFU/mL	Colony-Forming Units per milliliter	MRL	Minimum Reporting Level: set by EPA for unregulated contaminant monitoring	ppt	parts per trillion or nanograms per liter (ng/L)
DLR	Detection Limits for purposes of Reporting: State-determined level that a test can detect the chemical	NA	Not Applicable: no State or Federal standards are established	RAA	Running Annual Average
grains/gallon	grains per gallon: a measure of water hardness. One grain/gallon equals 17.1 ppm or mg/L	ND	None Detected: sample was taken and chemical was not detected	TON	Threshold Odor Number
HPC	Heterotrophic Plate Count: a bacteriological test that counts the number of bacteria per milliliter of sample	NL	Notification Level	TT	Treatment Technique
LRAA	Locational Running Annual Average	NR	No Range: all result(s) were the same value	µS/cm	microSiemen per centimeter; or micromho per centimeter (µmho/cm)
MCL	Maximum Contaminant Level	NTU	Nephelometric Turbidity Units	—	Samples not required
MCLG	Maximum Contaminant Level Goal	pCi/L	picoCuries per Liter	=	Equal
MRDL	Maximum Residual Disinfectant Level	PHG	Public Health Goal	>	Greater than
		ppb	parts per billion or micrograms per liter (µg/L)	<	Less than
				≤	Less than or equal to
				#	Number
				%	Percent

DEFINITIONS

90th Percentile: The value in a data set in which 90 percent of the set is less than or equal to this value.

Disinfection By-Product: Compounds which are formed from mixing of organic or mineral precursors in the water with ozone, chlorine or chloramine. Bromate, Total Trihalomethanes, and Haloacetic Acids are disinfection by-products.

Locational Running Annual Average (LRAA): The RAA at one sample location.

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

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 disinfectant added for water treatment below which there is no known or expected risk to health. MRDLGs do not reflect the benefits of the use of disinfectants to control microbial contaminants.

Notification Level (NL): Notification levels are health-based advisory levels established by the State Board for chemicals in drinking water that lack maximum contaminant levels (MCLs).

Primary Drinking Water Standard (Primary Standard): MCLs and MRDLs for contaminants that affect health along with their monitoring and reporting requirements, 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.

Regulatory Action Level (AL): The concentration of a contaminant which, if exceeded, triggers treatment or other requirements that a water system must follow.

Running Annual Average (RAA): The yearly average which is calculated every 3 months using the previous 12 months' data.

Secondary Drinking Water Standard (Secondary Standard): MCLs for contaminants that do not affect health but are used to monitor the aesthetics of the water.

Treatment Technique (TT): A required treatment process intended to reduce the level of a contaminant in drinking water.



EASTERN MUNICIPAL WATER DISTRICT DISTRIBUTION SYSTEM DATA FOR 2015

							SERVICE AREA		
Parameter	Units	State or Federal Maximum Contaminant Level (MCL)	California Public Health Goal (PHG)	State Detection Limit for Reporting (DLR)	Range / Average	EMWD's Entire Distribution System	Mills	East Valley	Skinner
PRIMARY STANDARDS - MANDATORY HEALTH-RELATED STANDARDS									
MICROBIOLOGICAL									
Total Coliform Bacteria	# positive coliforms	A	MCLG = 0	NA	# positives in 2015 Highest monthly %	1 0.4	1 ---	0 ---	0 ---
Fecal Coliform Bacteria (<i>E. coli</i>)	# positive <i>E. coli</i>	B	MCLG = 0	NA	# positives in 2015	0	0	0	0
Heterotrophic Plate Count (HPC)	# HPCs > 500 CFU/mL	TT C	NA	NA	# HPCs>500 in 2015 Lowest monthly %	7 99.2	7 ---	0 ---	0 ---
DISINFECTION BY-PRODUCTS AND DISINFECTANT RESIDUALS									
Bromate (Mills & Skinner plants only)	ppb	RAA = 10	0.1	1.0	Range Highest RAA	--- ---	2.2 - 12 4.5	D ---	1.1 - 9.9 4.3
Haloacetic Acids (5) (HAA5s) E	ppb	LRAA = 60	NA	E	Range Highest LRAA	<1.0 - 45 29	<1.0 - 45 29	<1.0 - 38 23	<1.0 - 24 19
Total Trihalomethanes (TTHMs) F	ppb	LRAA = 80	NA	1	Range Highest LRAA	4.3 - 51 42	17 - 44 36	4.3 - 51 42	6.8 - 31 27
Total Chlorine Residual Chlorine and Chloramines	ppm	MRDL = 4	MRDLG = 4	NA	Range Average	<0.2 - 4.1 1.6	<0.2 - 3.8 1.5	<0.2 - 3.6 1.8	<0.2 - 4.1 1.8
METALS AS A BY-PRODUCT OF CORROSION OF CONSUMER'S PLUMBING G									
Copper	ppb	AL = 1300	300	50	NA	90th percentile of 50 samples: 140 ppb Zero samples exceeded the Action Level			
Lead	ppb	AL = 15	0.2	5	NA	90th percentile of 50 samples: <5 ppb Zero samples exceeded the Action Level			
SECONDARY STANDARDS - AESTHETIC STANDARDS H									
PHYSICAL PARAMETERS									
Color	Units	15	NA	NA	Range Average	<1 - 50 <1	<1 - 5 <1	<1 - 50 1.6	<1 - 5 <1
Odor Threshold	TON	3	NA	1	Range Average	NR 1	NR 1	NR 1	NR 1
pH	pH unit	6.5 - 8.5	NA	NA	Range Average	7.1 - 8.8 8.1	7.1 - 8.8 8.1	7.7 - 8.5 8.2	7.7 - 8.4 8.1
Turbidity	NTU	5	NA	0.1	Range Average	0.1 - 7.7 0.2	0.1 - 1.3 0.2	0.1 - 7.7 0.4	0.1 - 0.9 0.2
UNREGULATED CONTAMINANT MONITORING I									
Chlorate	ppb	NL = 800	NA	MRL = 20	Range Average	ND - 1800 120	ND - 1800 150	37 - 190 95	34 - 88 62
Total Chromium	ppb	50	NA	MRL = 0.2 DLR = 10	Range Average	ND - 1.0 0.2	ND - 1.0 0.3	ND - 0.2 ND	NR ND
Chromium-6	ppb	10	0.02	MRL = 0.03 DLR = 1	Range Average	ND - 1.3 0.35	ND - 1.3 0.49	ND - 0.38 0.16	0.06 - 0.12 0.08
Molybdenum	ppb	NA	NA	MRL = 1	Range Average	ND - 9.9 4.8	ND - 9.9 4.5	3.5 - 7.2 5.7	3.4 - 4.5 3.8
Strontium	ppb	NA	NA	MRL = 0.3	Range Average	200 - 860 440	270 - 830 460	200 - 360 290	680 - 860 780
Vanadium	ppb	NL = 50	NA	MRL = 0.2	Range Average	ND - 18 7.4	3.3 - 18 8.4	2.6 - 13 7.8	ND - 4.6 1.2

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Unregulated contaminant monitoring helps EPA and the State Board determine where certain contaminants occur and whether the contaminants need to be regulated.

ND – none detected NR – no range

ONE PART PER MILLION (PPM) IS LIKE

- 1 second in 11.6 days
- 1 teaspoon in 1302 gallons
- 1 drop in 13.6 gallons

ONE PART PER BILLION (PPB) IS LIKE

- 1 second in 31.7 years
- 1 teaspoon in 1.3 million gallons
- 1 drop in 13,563 gallons

ONE PART PER TRILLION (PPT) IS LIKE

- 1 second in 31,710 years
- 1 teaspoon in 1.3 billion gallons
- 1 drop in 13,563,368 gallons



EASTERN MUNICIPAL WATER DISTRICT 2015 WATER QUALITY TABLE

We are required to monitor your drinking water for specific contaminants on a regular basis. Results are an indicator of whether or not your drinking water meets health standards.

					MENIFEE, MORENO VALLEY, NORTH CANYON LAKE, PERRIS & WILDOMAR										
Parameter	Units	State or Federal Maximum Contaminant Level (MCL)	California Public Health Goal (PHG)	State Detection Limit for Reporting (DLR)	Mills Filtration Plant		Perris Valley Wells J		Perris Filtration Plant		Menifee & Perris Desalters		Major Sources in Drinking Water		
Percent of total water delivered by EMWD	%				32%		5%		19%		9%				
					Range	Average	Range	Average	Range	Average	Range	Average			
PRIMARY STANDARDS-MANDATORY HEALTH-RELATED STANDARDS															
CLARITY					Highest NTU	% ≤ 0.3			Highest NTU	% ≤ 0.1					
Combined Filter Effluent Turbidity	NTU and %	K	NA		0.09	100	---	---	0.06	100	---	---	Soil runoff		
ORGANIC CHEMICAL					NR	ND	ND - 0.9	ND	NR	ND		NR	ND	Discharge from metal degreasing sites and other factories	
Trichloroethylene (TCE)	ppb	5	1.7	0.5											
INORGANIC CHEMICALS					64 - 180	115	NR	ND	ND - 86	ND		NR	ND	Residue from water treatment process; natural deposits erosion	
Aluminum	ppb	1000 L 200	600	50	NR	2.2	NR	ND	NR	2.3		NR	ND	Natural deposits erosion; runoff from orchards; glass and electronics production wastes	
Arsenic M	ppb	10	0.004	2	NR	ND	0.2 - 0.4	0.3	NR	0.1		NR	ND	Discharges of oil drilling wastes and from metal refineries; natural deposits erosion	
Barium	ppm	1	2	0.1	---	---	0.3 - 0.5	0.4	0.2 - 0.4	0.3		NR	ND	Erosion of natural deposits; discharge from fertilizer and aluminum factories	
Fluoride (Naturally-occurring)	ppm	2.0	1.0	0.1	0.6 - 0.9	0.7	---	---	---	---	---	---	---	Water additive to promote strong teeth	
Fluoride (Treatment related) N	ppm	2.0	1.0	0.1	ND - 0.9	0.5	3.7 - 5.8	4.9	ND - 0.7	0.4	1.7 - 4.2	3.4	Runoff/leaching from fertilizer use; septic tank and sewage; natural deposits erosion		
Nitrate (as N)	ppm	10	10	0.4	NR	ND	ND - 4.1	ND	NR	ND		NR	ND	Rocket propellant, fireworks, explosives, and industrial discharge; runoff/leaching from fertilizer use	
Perchlorate	ppb	6	1	4	NR	ND	NR	ND	NR	ND		NR	ND	Runoff/leaching from livestock lots (feed additive), discharge from petroleum, glass and metal refineries; discharge from mines and chemical manufacturers; erosion of natural deposits	
Selenium	ppb	50	30	5											
RADIOLOGICALS					ND - 4	ND	ND - 6	4	NR	ND		NR	ND	Erosion of natural deposits	
Gross Alpha Particle Activity	pCi/L	15	MCLG = 0	3	NR	ND	NR	ND	NR	ND		NR	ND	Decay of natural and man-made deposits	
Gross Beta Particle Activity	pCi/L	50	MCLG = 0	4	ND - 4	2	1 - 4	2	NR	1		NR	1	Erosion of natural deposits	
Uranium	pCi/L	20	0.43	1											
SECONDARY STANDARDS-AESTHETIC STANDARDS					76 - 96	86	220 - 430	320	88 - 110	100	140 - 220	190	Runoff/leaching from natural deposits; seawater influence		
Chloride	ppm	500	NA	NA	NR	1	<2.5 - 2.5	<2.5	<2.5 - 2.5	<2.5		NR	<2.5	Naturally-occurring organic materials	
Color	Units	15	NA	NA	NR	ND	NR	ND	NR	ND		NR	ND	Leaching from natural deposits	
Iron	ppb	300	NA	100	NR	ND	NR	ND	NR	ND		NR	ND	Leaching from natural deposits	
Manganese	ppb	50	NL = 500	20	NR	2	NR	1	NR	1		NR	1	Naturally-occurring organic materials	
Odor Threshold	TON	3	NA	1	580 - 666	623	1020 - 1540	1320 M	550 - 1580	1030	620 - 950	750	Substances that form ions in water; seawater influence		
Specific Conductance	µS/cm	1600	NA	NA	81 - 84	83	53 - 62	57	65 - 280	230	16 - 80	26	Runoff/leaching from natural deposits; industrial wastes		
Sulfate	ppm	500	NA	0.5	335 - 364	350	666 - 1100	860 L	330 - 680	630	340 - 610	460	Runoff/leaching from natural deposits; seawater influence		
Total Dissolved Solids (TDS)	ppm	1000	NA	NA	NR	ND	0.2 - 1.4	0.6	NR	ND		NR	0.2	Soil runoff	
Turbidity G	NTU	5	NA	0.1											
UNREGULATED CONTAMINANT MONITORING I					ND - 33	22	ND - 170	55	110 - 150	120	68 - 620	340	Agricultural defoliant or desiccant; disinfection by-product; used in production of chlorine dioxide		
Chlorate	ppb	NA	NL = 800	MRL = 20	0.18 - 0.57	0.34	0.44 - 1.3	0.97	0.06 - 0.11	0.08	0.12 - 0.16	0.14	Discharge from electroplating factories, leather tanneries, wood preservation, chemical synthesis, refractory production, and textile manufacturing facilities; erosion of natural deposits		
Chromium-6	ppb	10	0.02	MRL = 0.03 DLR = 1	2 - 3	2	ND - 11	6	3 - 4	3	ND - 2	1	Naturally-occurring element found in ores and present in plants, animals and bacteria; used in a chemical reagent		
Molybdenum	ppb	NA	NA	MRL = 1	NR	ND	ND - 22	ND	NR	ND		NR	ND	Manmade chemical; used in products to make them stain, grease, heat and water resistant	
Perfluoroheptanoic Acid (PFHpA)	ppt	NA	NA	MRL = 10	NR	ND	ND - 120	38	NR	ND		NR	ND	Manmade chemical; used in products to make them stain, grease, heat and water resistant	
Perfluorohexanesulfonic Acid (PFHxS)	ppt	NA	NA	MRL = 30	NR	ND	ND - 82	ND	NR	ND		NR	ND	Surfactant or emulsifier; used in fire-fighting foam, circuit board etching acids, alkaline cleaners, floor polish, and as a pesticide	
Perfluorooctanesulfonic Acid (PFOS)	ppt	NA	NA	MRL = 40	NR	ND	ND - 53	ND	NR	ND		NR	ND	Used as surfactant or emulsifier in Teflon, fire-fighting foams, cleaners, cosmetics, greases and lubricants, paints, polishes, adhesives and photographic films	
Perfluorooctanoic Acid (PFOA)	ppt	NA	NA	MRL = 20	190 - 330	260	340 - 820	550	250 - 280	260	240 - 340	290	Naturally-occurring element; historically used in production of cathode-ray tube televisions		
Strontium	ppb	NA	NA	MRL = 0.3	3.6 - 5.4	4.2	4.4 - 16	12	3.3 - 5.3	4.5	2.7 - 4.4	3.6	Naturally-occurring; industrial waste discharge		
Vanadium	ppb	NA	NL = 50	MRL = 0.2											
OTHER PARAMETERS					77 - 84	81	120 - 190	150	97 - 150	130	38 - 91	51	Naturally-occurring carbonates; measures water's ability to neutralize acid		
Alkalinity (Total)	ppm	NA	NA	NA	NR	210	390 - 630	500	140 - 190	150	150 - 300	240	Runoff/leaching from natural deposits; industrial wastes		
Boron	ppb	NL = 1000	NA	100	27 - 30	29	86 - 180	130	34 - 85	76	34 - 63	45	Naturally-occurring mineral		
Calcium	ppm	NA	NA	NA	6.0 - 7.2	6.6	19 - 36	27	7.0 - 19	17	7.0 - 12	9.0	Naturally-occurring; the sum of calcium and magnesium in the water		
Hardness as Calcium Carbonate P	grains/gallon	NA	NA	NA	6.0 - 12	9.0	25 - 41	32	9.0 - 29	26	7.0 - 15	9.8	Naturally-occurring mineral		
Magnesium	ppm	NA	NA	NA	77 - 82	80	97 - 140	120	78 - 120	100	62 - 120	91	Naturally-occurring mineral		
Sodium	ppm	NA	NA	NA											

The State Board allows EMWD to monitor for some contaminants less than once per year because the concentrations of these contaminants do not change frequently. Some of EMWD's data, though representative, are more than one year old.

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2014 data ND – none detected NR – no range

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NR – no range

EASTERN MUNICIPAL WATER DISTRICT 2015 WATER QUALITY TABLE

We are required to monitor your drinking water for specific contaminants on a regular basis. Results are an indicator of whether or not your drinking water meets health standards.

					HEMET & SAN JACINTO				
Parameter	Units	State or Federal Maximum Contaminant Level (MCL)	California Public Health Goal (PHG)	State Detection Limit for Reporting (DLR)	East Valley Wells		Hemet Filtration Plant		Major Sources in Drinking Water
Percent of total water delivered by EMWD	%				13%		5%		
					Range	Average	Range	Average	
PRIMARY STANDARDS-MANDATORY HEALTH-RELATED STANDARDS									
CLARITY									
Combined Filter Effluent Turbidity	NTU and %	10	NA	NA			Highest NTU	% ≤ 0.1	
ORGANIC CHEMICAL					---	---	0.12	99.96	Soil runoff
Trichloroethylene (TCE)	ppb	5	1.7	0.5	NR	ND	NR	ND	Discharge from metal degreasing sites and other factories
INORGANIC CHEMICALS									
Aluminum	ppb	1000200	600	50	NR	ND	ND - 97	54	Residue from water treatment process; natural deposits erosion
Arsenic 10	ppb	10	0.004	2	NR	ND	NR	2.7	Natural deposits erosion; runoff from orchards; glass and electronics production wastes
Barium	ppm	1	2	0.1	ND - 0.1	ND	NR	0.1	Discharges of oil drilling wastes and from metal refineries; natural deposits erosion
Fluoride (Naturally-occurring)	ppm	2.0	1.0	0.1	0.2 - 0.9	0.4	0.2 - 0.4	0.3	Erosion of natural deposits; discharge from fertilizer and aluminum factories
Fluoride (Treatment related) 1	ppm	2.0	1.0	0.1	---	---	---	---	Water additive to promote strong teeth
Nitrate (as N)	ppm	10	10	0.4	ND - 3.7	0.8	ND - 0.8	ND	Runoff/leaching from fertilizer use; septic tank and sewage; natural deposits erosion
Perchlorate	ppb	6	1	4	NR	ND	NR	ND	Rocket propellant, fireworks, explosives, and industrial discharge; runoff/leaching from fertilizer use
Selenium	ppb	50	30	5	ND - 12	ND	NR	ND	Runoff/leaching from livestock lots (feed additive), discharge from petroleum, glass and metal refineries; discharge from mines and chemical manufacturers; erosion of natural deposits
RADIOLOGICALS									
Gross Alpha Particle Activity	pCi/L	15	MCLG = 0	3	ND - 4	ND	NR	8	Erosion of natural deposits
Gross Beta Particle Activity	pCi/L	50	MCLG = 0	4	ND - 11	ND	NR	ND	Decay of natural and man-made deposits
Uranium	pCi/L	20	0.43	1	ND - 1	ND	NR	1	Erosion of natural deposits
SECONDARY STANDARDS-AESTHETIC STANDARDS									
Chloride	ppm	500	NA	NA	10 - 86	22	91 - 110	100	Runoff/leaching from natural deposits; seawater influence
Color	Units	15	NA	NA	<2.5 - 7.5	<2.5	<2.5 - 2.5	<2.5	Naturally-occurring organic materials
Iron	ppb	300	NA	100	ND - 260	ND	NR	ND	Leaching from natural deposits
Manganese	ppb	50	NL = 500	20	ND - 89	ND	NR	ND	Leaching from natural deposits
Odor Threshold	TON	3	NA	1	NR	1	NR	1	Naturally-occurring organic materials
Specific Conductance	µS/cm	1600	NA	NA	320 - 950	470	560 - 1320	1000	Substances that form ions in water; seawater influence
Sulfate	ppm	500	NA	0.5	13 - 210	53	75 - 280	240	Runoff/leaching from natural deposits; industrial wastes
Total Dissolved Solids (TDS)	ppm	1000	NA	NA	200 - 610	280	340 - 720	630	Runoff/leaching from natural deposits; seawater influence
Turbidity 10	NTU	5	NA	0.1	0.1 - 1.7	0.4	0.1 - 0.2	0.1	Soil runoff
UNREGULATED CONTAMINANT MONITORING 1									
Chlorate	ppb	NA	NL = 800	MRL = 20	ND - 760	200	82 - 170	140	Agricultural defoliant or desiccant; disinfection by-product; used in production of chlorine dioxide
Chromium-6	ppb	10	0.02	MRL = 0.03 DLR = 1	ND - 1.4	0.23	0.06 - 0.09	0.07	Discharge from electroplating factories, leather tanneries, wood preservation, chemical synthesis, refractory production, and textile manufacturing facilities; erosion of natural deposits
Molybdenum	ppb	NA	NA	MRL = 1	3 - 15	7	2 - 3	2	Naturally-occurring element found in ores and present in plants, animals and bacteria; used in a chemical reagent
Perfluoroheptanoic Acid (PFHpA)	ppt	NA	NA	MRL = 10	NR	ND	NR	ND	Manmade chemical; used in products to make them stain, grease, heat and water resistant
Perfluorohexanesulfonic Acid (PFHxS)	ppt	NA	NA	MRL = 30	NR	ND	NR	ND	Manmade chemical; used in products to make them stain, grease, heat and water resistant
Perfluorooctanesulfonic Acid (PFOS)	ppt	NA	NA	MRL = 40	NR	ND	NR	ND	Surfactant or emulsifier; used in fire-fighting foam, circuit board etching acids, alkaline cleaners, floor polish, and as a pesticide
Perfluorooctanoic Acid (PFOA)	ppt	NA	NA	MRL = 20	NR	ND	NR	ND	Used as surfactant or emulsifier in Teflon, fire-fighting foams, cleaners, cosmetics, greases and lubricants, paints, polishes, adhesives and photographic films
Strontium	ppb	NA	NA	MRL = 0.3	220 - 390	310	240 - 290	260	Naturally-occurring element; historically used in production of cathode-ray tube televisions
Vanadium	ppb	NA	NL = 50	MRL = 0.2	2.7 - 20	7.2	2.1 - 2.9	2.5	Naturally-occurring; industrial waste discharge
OTHER PARAMETERS									
Alkalinity (Total)	ppm	NA	NA	NA	120 - 160	140	78 - 160	130	Naturally-occurring carbonates; measures water's ability to neutralize acid
Boron	ppb	NL = 1000	NA	100	ND - 190	ND	130 - 220	150	Runoff/leaching from natural deposits; industrial wastes
Calcium	ppm	NA	NA	NA	23 - 85	49	28 - 86	75	Naturally-occurring mineral
Hardness as Calcium Carbonate 1	grains/gallon	NA	NA	NA	3.8 - 16	8.4	5.8 - 19	17	Naturally-occurring; the sum of calcium and magnesium in the water
Magnesium	ppm	NA	NA	NA	1.9 - 16	5.2	7.9 - 30	26	Naturally-occurring mineral
Sodium	ppm	NA	NA	NA	24 - 91	39	84 - 120	110	Naturally-occurring mineral

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Unregulated contaminant monitoring helps EPA and the State Board determine where certain contaminants occur and whether the contaminants need to be regulated.

2014 & 2015 data

ND – none detected

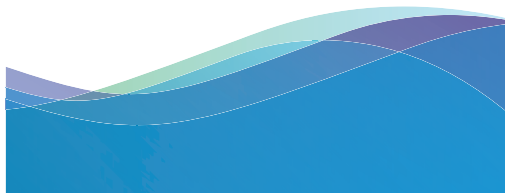
NR – no range

FOOTNOTES

- A** Total coliform MCLs: No more than 5.0% of the monthly samples may be total coliform-positive. Compliance is based on distribution system samples. EMWD analyzed 3,046 coliform samples in 2015, one of which was total coliform positive. The highest monthly coliform result was 0.4%. The MCL was not violated in 2015.
- B** Fecal coliform/*E. coli* MCLs: An MCL violation is the occurrence of two (2) consecutive total coliform-positive samples, one of which contains fecal coliform or *E. coli*. There were zero detected fecal coliforms. The MCL was not violated in 2015.
- C** HPCs were tested only in distribution system samples which had no detectable chlorine residual. No less than 95% of all distribution system samples in one month may have no detectable chlorine residual and an HPC greater than 500 colony forming units per mL. The HPC results were no less than 99.2% in any month in 2015.
- D** Bromate is a disinfection by-product resulting from the use of ozone. Currently, Mills and Skinner Filtration plants use ozone. The MCL is based on the Running Annual Average (RAA), so values above the MCL are acceptable, so long as the RAA complies with the MCL.
- E** DLR = 1.0 ppb for each HAA5 analyte (dichloroacetic acid, trichloroacetic acid, monobromoacetic acid, and dibromoacetic acid) except for monochloroacetic acid which has a DLR = 2.0 ppb. Locational Running Annual Averages (LRAA) and ranges are calculated from 12 samples sites collected quarterly throughout the distribution system. HAA5s are a by-product of drinking water chlorination.
- F** Total Trihalomethanes are the sum of the following analytes: bromodichloromethane, bromoform, chloroform, and dibromochloromethane. Locational Running Annual Averages (LRAA) and ranges are calculated from 12 sample sites collected quarterly throughout the distribution system. TTHMs are a by-product of drinking water chlorination.
- G** Lead and copper are regulated as a Treatment Technique under the Lead and Copper Rule, which requires systems to take water samples at the consumers' tap every three years. Results are from 2013. Neither lead nor copper are typically found in the source waters but can get into water by way of internal corrosion of household plumbing.
- H** Compliance for physical parameters is determined by the average, however all samples are reviewed and any values outside the compliance range are noted and corrected if possible. Values above the MCL may be acceptable so long as the average complies with the MCL.
- I** Unregulated contaminant monitoring spanned four consecutive quarters from 2013 to 2014.
- J** Values are from blended Well 57 and raw well values from other wells in area. Well 57 is blended on site with Mills water to improve Total Dissolved Solids.
- K** The turbidity level of the combined filter effluent at the Mills and Skinner Filtration plants shall be less than or equal to 0.3 NTU in 95% of the measurements taken each month and shall not exceed 1 NTU at any time. For Perris and Hemet Filtration plants, the turbidity level of the combined filter effluent shall be less than or equal to 0.1 NTU in 95% of the measurements taken each month and shall not exceed 1 NTU at any time. Turbidity is a measure of the cloudiness of the water and is an indicator of treatment performance.
- L** Aluminum has both primary (1,000 ppb) and secondary (200 ppb) standards (MCLs).
- M** While your drinking water meets the federal and state standard for arsenic, some of our sources do contain low levels of arsenic. The arsenic standard balances the current understanding of arsenic's possible health effects against the costs of removing arsenic from drinking water. The EPA continues to research the health effects of low levels of arsenic, which is a mineral known to cause cancer in humans at high concentrations and is linked to other health effects such as skin damage and circulatory problems.
- N** MWD began fluoride treatment of water at Mills and Skinner Filtration plants in 2007. Fluoride is not added to the water in the East Valley Area.
- O** Turbidity is a measure of the cloudiness of the water and is an indicator of treatment performance. Secondary standards were based either on the treatment plant effluent or raw well water.
- P** Water hardness, measured in grains per gallon as calcium carbonate, is characterized by the following scale: 0 – 4.4 is soft, 4.4 – 8.8 is moderately hard, 8.8 – 17.5 is hard, and greater than 17.5 is very hard.



2270 Trumble Road
PO Box 8300
Perris, CA 92572-8300



EASTERN MUNICIPAL WATER DISTRICT

Your 2015 Water Quality

CONSUMER CONFIDENCE REPORT

Issued July 2016

Public Meetings

EMWD's Board of Directors meetings are generally held on the 1st and 3rd Wednesdays of each month beginning at 9:00 a.m.

If you wish to attend a meeting, please call the Board Secretary during normal business hours at (951) 928-3777, ext. 4235 to confirm meeting dates or check the Board Meeting Calendar online at www.emwd.org/BoardMeetings.

For more information on this report, contact:
Water Quality (951) 928-3777, ext. 3327
or visit www.emwd.org/WaterQuality.

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The choice is yours! We have made it easy and convenient for you to tell us how you want to receive future water quality reports, or if you would like to change your current delivery method.

Just use one of the following options:

1. Submit your preference on-line at www.emwd.org/ccr.
2. Call (951) 928-3777, extension 4378.

APPENDIX F

OTHER SUPPORTING DOCUMENTATION



AEI

Consultants

Environmental & Engineering Services

Instructions: Please complete the following questionnaire to the best of your knowledge.

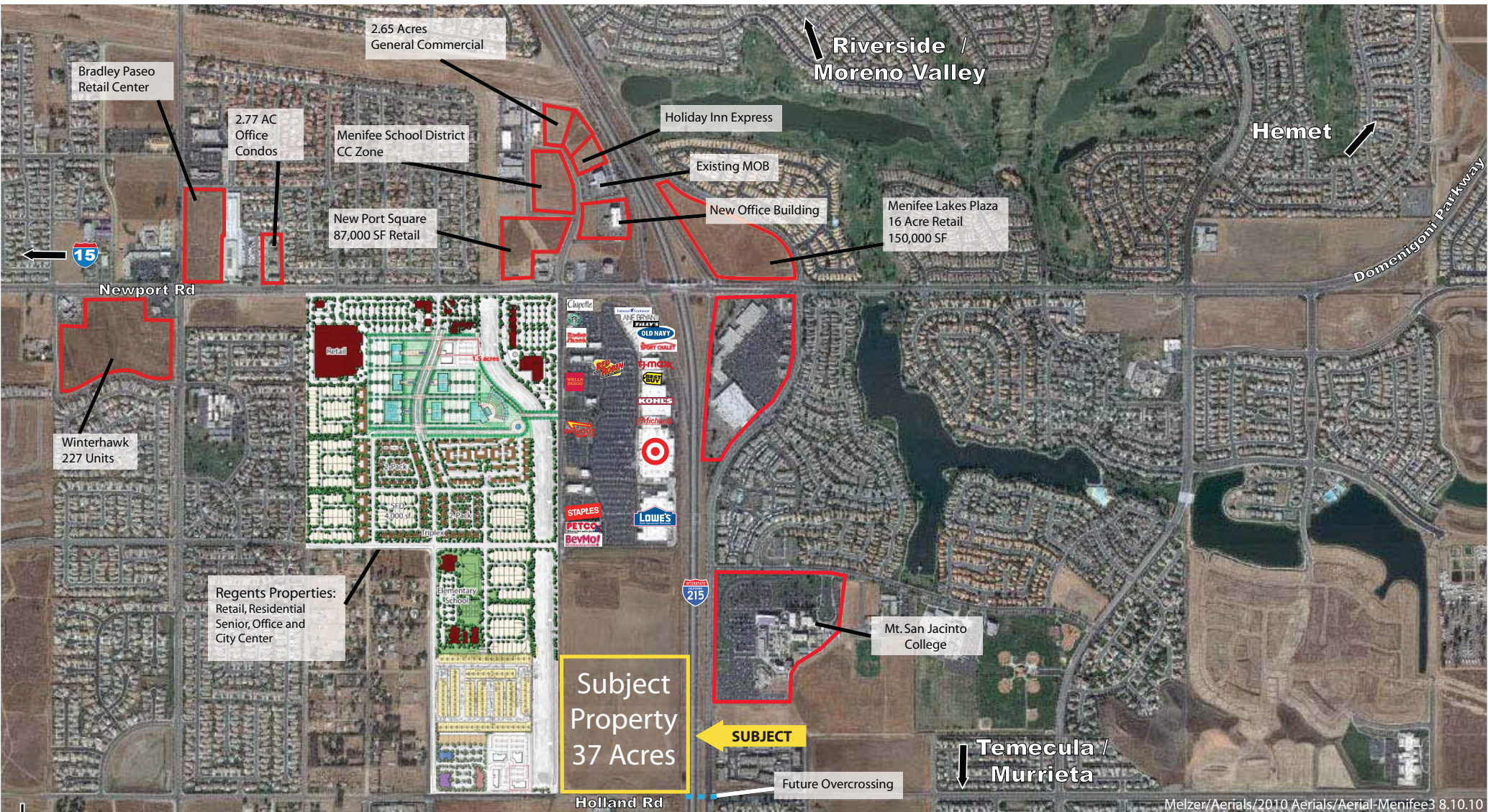
ENVIRONMENTAL SITE ASSESSMENT QUESTIONNAIRE			
PROJECT/SITE INFORMATION			
Project Street Address(es): Northeast Corner of Holland Rd & Haun Rd			
City: Menifee		County: Riverside	State: CA Zip:
Parcel Number(s):			
CONTACT INFORMATION			
<i>Contact</i>	<i>Name</i>	<i>Telephone Number</i>	<i>Years Associated w/Site</i>
Owner:	Nelson Family Trust	619-985-8220	14 years
Site Contact:	Jim Nelson	619-985-8220	14 years
Key Site Mgr:			
Previous Owner(s), Operators and/or Occupants:			
PROPERTY USE AND SPECIFICATIONS			
<input type="checkbox"/> Single-Family Residential		<input type="checkbox"/> Vacant or undeveloped	
<input type="checkbox"/> Multi-Family Residential		<input checked="" type="checkbox"/> Agricultural <i>specify type: Hay</i>	
<input type="checkbox"/> Commercial Office		<input type="checkbox"/> Industrial <i>specify type:</i>	
<input type="checkbox"/> Commercial Retail		<input type="checkbox"/> Other <i>specify type:</i>	
Provide a general site description: A disc vacant flat site with no structures. Used for agricultural hay farming.			
Provide all known current/former addresses and/or parcel numbers: 360-130-003			
Total Property Size: 37 acers		Original Construction Date: N/A	
Total Number of Buildings: None		Was Construction Phased? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unk	
Total Sq. Ft. of Buildings: N/A		Dates of Renovations/Phases:	
Are there any plans for site redevelopment or change in use? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If yes, please describe: Land Development			
Are there any bodies of water on or immediately adjacent to the site? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, please describe:			
Electricity Provider: Southern California Edison		Gas Provider: Southern California Gas Company	
Heating System Fuel Source(s): N/A		Cooling System Power Source: N/A	
Potable Water Source/Provider: Eastern Municipal Water District			
Any waste water discharge at the site? <input type="checkbox"/> Septic Tank/Leachfield <input type="checkbox"/> Sanitary Sewer <input type="checkbox"/> Other		Sanitary Sewer Provider (if applicable): Eastern Municipal Water District	
OCCUPANTS/TENANTS			
<i>Vacant</i>	<i>Vacant</i>		

Project Number: 362255
Project Manager: April McGuire

*Please return via fax (310-846-5594)
or email (amcguire@aeiconsultants.com)*

<i>Current owner Leased to farmers</i>	<i>14 years</i>	<i>Agriculture</i>
Has the subject site ever been occupied by the following: <input type="checkbox"/> Dry Cleaner <input type="checkbox"/> Gas Station <input type="checkbox"/> Printing Facility <input type="checkbox"/> Manufacturing Facility If yes, provide length of occupancy: No		
Have any previous investigations been performed at the subject property? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If Yes, are copies available?		
If Yes, note type and describe: <input type="checkbox"/> Phase I ESA <input type="checkbox"/> Phase II <input type="checkbox"/> Asbestos <input type="checkbox"/> Lead Paint <input type="checkbox"/> Radon		
ON-SITE ENVIRONMENTAL CONDITIONS		
Are you aware of any of the following environmental conditions, either current or former , on the subject site? NOTE: If applicable, please provide inventory records, inspection records and material safety data sheets to site inspector during site inspection.		
<i>Environmental Condition/Issue</i>	<i>Response</i>	<i>Notes on Yes Responses</i>
Aboveground Storage Tanks	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Underground Storage Tanks	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Hazardous/Toxic Substances	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Stored Chemicals	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Chemical Spills/Releases	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Dump Areas/Landfills	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Waste Treatment Systems	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Wastewater Discharges	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Floor Drains/Sumps/Clarifiers	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Pits, Ponds, Lagoons	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Stained Soil/Vegetation	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Pesticide/Herbicide Use	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Polychlorinated Biphenyls (PCBs)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Electrical Transformers	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Hydraulic Lifts	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Elevators	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	

Asbestos	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
<i>Environmental Condition/Issue</i>	<i>Response</i>	<i>Notes on Yes Responses</i>
Lead-based paint	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Oil/Gas Wells	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Environmental Clean-ups	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Environmental Permits	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
OTHER ENVIRONMENTAL CONDITIONS		
<p>Are you aware of any pending, threatened, or past litigation relevant to hazardous substances or petroleum products in, on, or from the property?</p> <p><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>If yes, provide brief explanation.</p>		
<p>Are you aware of any pending, threatened or past administrative proceedings relevant to hazardous substances or petroleum products in, on, or from the property?</p> <p><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>If yes, provide brief explanation.</p>		
<p>Are you aware of any notices from any governmental entity regarding any possible violation of environmental laws or possible liability relating to hazardous substances or petroleum products?</p> <p><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>If yes, provide brief explanation.</p>		
<p>Are you aware of any incidents of flooding, leaks, or other water intrusion, and/or complaints related to indoor air quality?</p> <p><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>If yes, provide brief explanation.</p>		
<p>Are you aware of any cases of extreme water damage or mold throughout the building(s)?</p> <p><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>If yes, provide brief explanation.</p>		
Person completing questionnaire: Jim Nelson		
Title/Affiliation to the subject property: Owner		
Number of years associated with the subject property: 14 Years		
Date: 9-28-16		



APPENDIX G

QUALIFICATIONS

April McGuire – Project Manager

B.S. – Chemical Engineering, University of California, Los Angeles

Ms. McGuire provides project management to ensure ASTM compliance and satisfaction of client requirements for Phase I Environmental Assessments, Environmental Transaction Screens, Regulatory Database Review, and Historical Records Review.

Project experience for Ms. McGuire includes:

- Phase I Environmental Site Assessments
- Environmental Transaction Screens
- Historical Records Reviews
- Regulatory Database Reviews

Prior to joining the environmental consulting industry, Ms. McGuire studied environmental and chemical engineering disciplines such as chemical fate and transport in the environment, atmospheric chemistry, thermodynamics and fluid mechanics.

Victor T. DeTroy – National Client Manager, Due Diligence Services

B.A. - Earth and Environmental Science, Columbia University, Cum Laude

OSHA 40-Hour Hazardous Waste Operations
Emergency Response (HAZWOPER) Training
EPA AHERA 24-hour Asbestos Building Inspector

Mr. DeTroy has worked the environmental service industry since 2007 and provides project management to ensure compliance and satisfaction of client requirements for Phase I Environmental Site Assessments, Transaction Screens, limited due diligence assessments, Phase II and Phase III subsurface investigations, and quarterly groundwater monitoring events. He has successfully completed assessments on a variety of residential, commercial, and complex industrial sites. Mr. DeTroy is accustomed to all aspects of Due Diligence Property Assessments and the needs and requirements of a variety of reporting standards, including ASTM, EPA's All Appropriate Inquiry (AAI), Freddie Mac, Fannie Mae, HUD, and customized client formats.

Project experience for Mr. DeTroy includes:

- Phase I Environmental Site Assessments
- Telecommunication Phase I Environmental Site Assessments
- Environmental Transaction Screens
- Environmental Transaction Analyses
- Limited Environmental Site Assessments
- Regulatory Database Reviews
- Historical Records Reviews
- Project Coordination and Setup
- Due Diligence Portfolio Management
- The design and implementation of Phase II soil and groundwater investigations and Phase III subsurface characterizations for a variety of suspected contaminants for due diligence and liability purposes

Subsurface investigations have included extensive soil and groundwater testing, identification of petroleum hydrocarbons and volatile organic compounds contamination in near surface soils, and contaminant plume delineation in soil vapor, soil, and groundwater. Mr. DeTroy's management and technical experience has allowed AEI's projects to be performed in a cost effective and timely manner to the satisfaction of AEI's clients and regulatory agencies.

