

# **PARTNER**

**Engineering and Science, Inc.**



## **PHASE I ENVIRONMENTAL SITE ASSESSMENT REPORT**

### **Idyllwild Road**

25840 Idyllwild Road  
Idyllwild, California 92549

Report Date: November 7, 2019  
Partner Project No. 19-262661.1  
Client Reference No. 262661



Prepared for:

### **WSCS Design**

2501 East Guasti Road, Suite 201  
Ontario, California 91761

November 7, 2019

Wade Shuey  
WSCS Design  
2501 East Guasti Road, Suite 201  
Ontario, California 91761

Subject: Phase I Environmental Site Assessment  
Idyllwild Road  
25840 Idyllwild Road  
Idyllwild, California 92549  
Partner Project No. 19-262661.1  
Client Reference No. 262661

Dear Mr. Shuey:

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

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

We appreciate the opportunity to provide environmental services to you. If you have any questions concerning this report, or if we can assist you in any other matter, please contact me at (951) 233-4062.

Sincerely,



Mike Cunneen  
Relationship Manager

## EXECUTIVE SUMMARY

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Partner Engineering and Science, Inc. (Partner) has performed a Phase I Environmental Site Assessment (ESA) in accordance with the scope of work and limitations of ASTM Standard Practice E1527-13, the Environmental Protection Agency Standards and Practices for All Appropriate Inquiries (AAI) (40 CFR Part 312) and set forth by WSCS Design for the property located at 25840 Idyllwild Road in Idyllwild, Riverside County, California (the "subject property"). The Phase I Environmental Site Assessment is designed to provide WSCS Design with an assessment concerning environmental conditions (limited to those issues identified in the report) as they exist at the subject property.

### Property Description

The subject property is located on the east side of CA Highway 243 and the west side of Oakwood Street within a mixed commercial/residential area of Riverside County. Please refer to the table below for further description of the subject property:

#### *Subject Property Data*

<b>Address(es):</b>	25840 Idyllwild Road, Idyllwild, California
<b>Property Use:</b>	Commercial
<b>Land Acreage (Ac):</b>	1.45 Ac
<b>Number of Buildings:</b>	Three
<b>Number of Floors:</b>	One
<b>Gross Building Area (SF):</b>	11,700 SF (Total)
<b>Net Rentable Area (SF):</b>	11,700 SF (Total)
<b>Date of Construction:</b>	1978
<b>Assessor's Parcel Number (APN):</b>	563-250-028-3
<b>Type of Construction:</b>	Wood-Framed
<b>Current Tenants:</b>	Idyllwild Extended Stay Motel
<b>Site Assessment Performed By:</b>	Chong Ly of Partner
<b>Site Assessment Conducted On:</b>	October 31, 2019

The subject property is currently occupied by Idyllwild Extended Stay Motel for commercial use. The subject property is currently used as a 19-unit extended stay motel. In addition to the current structures, the subject property is also improved with asphalt-paved parking area, an unpaved parking area, an inactive water pump house, and associated landscaping.

According to available historical sources, the subject property was formerly undeveloped as early as 1901 and developed with the current structures in 1978. A motel business tenant has occupied the subject property since 1978.

The immediately surrounding properties consist of a single-family residence and an undeveloped lot to the north across; a church to the south; an undeveloped lot to the east across Oakwood Street; and a state park to the west across State Highway 243.

According to previous subsurface investigation conducted on a nearby property (25015 Highway 243 and Case #083303997T), the depth to groundwater in the vicinity of the subject property is inferred to be approximately between 15 and 30 feet below ground surface (bgs) and groundwater flow is inferred to be toward the south-southwest.

## Findings

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

- Partner did not identify any recognized environmental conditions during the course of this assessment.

A *controlled recognized environmental condition (CREC)* refers to a REC resulting from 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. The following was identified during the course of this assessment:

- Partner did not identify any controlled recognized environmental conditions during the course of this assessment.

A *historical recognized environmental condition (HREC)* refers to 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. The following was identified during the course of this assessment:

- Partner did not identify any historical recognized environmental conditions during the course of this assessment.

An *environmental issue* refers to environmental concerns identified by Partner, which do not qualify as RECs; however, warrant further discussion. The following was identified during the course of this assessment:

- An unutilized water well was observed on the eastern portion of the subject property. According to the property owner, the well was installed in conjunction with the former swimming pool in 1983. The swimming pool was demolished and filled in between 2009 and 2012, but the well has reportedly not been decommissioned. As no hazardous materials or petroleum products are stored in the vicinity of the well, this feature is not expected to represent a significant environmental concern.
- Due to the age of the subject property buildings, there is a potential that asbestos-containing material (ACM) and/or lead-based paint (LBP) are present. Any suspect ACMs would need to be sampled to confirm the presence or absence of asbestos prior to any renovation or demolition activities to prevent potential exposure to workers and/or building occupants.

## Conclusions, Opinions and Recommendations

Partner has performed a Phase I Environmental Site Assessment in conformance with the scope and limitations of ASTM Practice E1527-13 of 25840 Idyllwild Road in Idyllwild, Riverside County, California

(the "subject property"). Any exceptions to, or deletions from, this practice are described in Section 1.5 of this report.

This assessment has revealed no evidence of recognized environmental conditions in connection with the subject property; however, environmental issues were identified. Based on the conclusions of this assessment, Partner recommends the following:

- The unutilized well on the eastern portion of the subject property should be properly decommissioned.
- An Operations and Maintenance (O&M) Program should be implemented in order to safely manage any suspect ACMs and LBP located at the subject property.

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## 1.0 INTRODUCTION

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Partner Engineering and Science, Inc. (Partner) has performed a Phase I Environmental Site Assessment (ESA) in conformance with the scope and limitations of ASTM Standard Practice E1527-13 and the Environmental Protection Agency Standards and Practices for All Appropriate Inquiries (AAI) (40 CFR Part 312) for the property located at 25840 Idyllwild Road in Idyllwild, Riverside County, California (the "subject property"). Any exceptions to, or deletions from, this scope of work are described in the report.

### 1.1 Purpose

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

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

### 1.2 Scope of Work

The scope of work for this ESA is in accordance with the requirements of ASTM Standard E1527-13. This assessment included: 1) a property and adjacent site reconnaissance; 2) interviews with key personnel; 3) a review of historical sources; 4) a review of regulatory agency records; and 5) a review of a regulatory database report provided by a third-party vendor. Partner contacted local agencies, such as environmental health departments, fire departments and building departments in order to determine any current and/or former hazardous substances usage, storage and/or releases of hazardous substances on the subject property. Additionally, Partner researched information on the presence of activity and use limitations (AULs) at these agencies. As defined by ASTM E1527-13, AULs are the legal or physical restrictions or limitations on the use of, or access to, a site or facility: 1) to reduce or eliminate potential exposure to hazardous substances or petroleum products in the soil or groundwater on the subject property; or 2) to prevent activities that could interfere with the effectiveness of a response action, in



order to ensure maintenance of a condition of no significant risk to public health or the environment. These legal or physical restrictions, which may include institutional and/or engineering controls (IC/ECs), are intended to prevent adverse impacts to individuals or populations that may be exposed to hazardous substances and petroleum products in the soil or groundwater on the property.

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

### **1.3 Limitations**

Partner warrants that the findings and conclusions contained herein were accomplished in accordance with the methodologies set forth in the Scope of Work. These methodologies are described as representing good commercial and customary practice for conducting an ESA of a property for the purpose of identifying recognized environmental conditions. There is a possibility that even with the proper application of these methodologies there may exist on the subject property conditions that could not be identified within the scope of the assessment or which were not reasonably identifiable from the available information. Partner believes that the information obtained from the record review and the interviews concerning the subject property is reliable. However, Partner cannot and does not warrant or guarantee that the information provided by these other sources is accurate or complete. The conclusions and findings set forth in this report are strictly limited in time and scope to the date of the evaluations. The conclusions presented in the report are based solely on the services described therein, and not on scientific tasks or procedures beyond the scope of agreed-upon services or the time and budgeting restraints imposed by the Client. No other warranties are implied or expressed.

Some of the information provided in this report is based upon personal interviews, and research of available documents, records, and maps held by the appropriate government and private agencies. This report is subject to the limitations of historical documentation, availability, and accuracy of pertinent records, and the personal recollections of those persons contacted.

This practice does not address requirements of any state or local laws or of any federal laws other than the all appropriate inquiry provisions of the LLPs. Further, this report does not intend to address all of the safety concerns, if any, associated with the subject property.

Environmental concerns, which are beyond the scope of a Phase I ESA as defined by ASTM include the following: ACMs, LBP, radon, and lead in drinking water. These issues may affect environmental risk at the subject property and may warrant discussion and/or assessment; however, are considered non-scope issues. If specifically requested by the Client, these non-scope issues are discussed in Section 6.3.

### **1.4 User Reliance**

WSCS Design engaged Partner to perform this assessment in accordance with an agreement governing the nature, scope and purpose of the work as well as other matters critical to the engagement. All reports, both verbal and written, are for the sole use and benefit of WSCS Design. Either verbally or in writing, third parties may come into possession of this report or all or part of the information generated as a result of this work. In the absence of a written agreement with Partner granting such rights, no third parties shall have rights of recourse or recovery whatsoever under any course of action against Partner, its officers, employees, vendors, successors or assigns. Any such unauthorized user shall be responsible to

protect, indemnify and hold Partner, Client and their respective officers, employees, vendors, successors and assigns harmless from any and all claims, damages, losses, liabilities, expenses (including reasonable attorneys' fees) and costs attributable to such Use. Unauthorized use of this report shall constitute acceptance of and commitment to these responsibilities, which shall be irrevocable and shall apply regardless of the cause of action or legal theory pled or asserted. Additional legal penalties may apply.

## **1.5 Limiting Conditions**

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

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

- Partner requested information relative to deed restrictions and environmental liens, and a title search from the Report User. This information was not provided at the time of the assessment.
- Partner submitted Freedom of Information Act (FOIA) requests to Riverside County Department of Environmental Health for information pertaining to hazardous substances, underground storage tanks, releases, inspection records, etc. for the subject property and/or adjacent properties. As of this writing, this agency has not responded to Partner's request. Based on information obtained from other historical sources, this limitation is not expected to alter the overall findings of this assessment.
- Partner was not granted access to the interior motel units. Based on the size and nature of use of the unobserved units (motel rooms), this limited method of survey is not expected to alter the overall findings of this assessment.

Due to time constraints associated with this report, the Client has requested the report despite the above-listed limitations.

## 2.0 SITE DESCRIPTION

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### 2.1 Site Location and Legal Description

The subject property at 25840 Idyllwild Road in Idyllwild, California is located on the east side of State Highway 243 and the west side of Oakwood Street within a mixed commercial/residential area of Riverside County. According to the Riverside County Assessor, the subject property is legally described as 563-250-028-3: "LOT 36 MB 8/36 IDYLLWILD MT PARK CO SUB 3", and ownership is currently vested in Rustic Rentals LLC since 2016.

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

### 2.2 Current Property Use

The subject property is currently occupied by Idyllwild Extended Stay Motel for commercial use. The subject property is currently being used as an extended stay motel. The subject property consists of three one-story buildings located on the western portion of the property. In addition to the current structures, the subject property is also improved with asphalt-paved parking area, an unpaved parking area, an inactive water pump house, and associated landscaping.

The subject property is designated for residential development by the County of Riverside.

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

### 2.3 Current Use of Adjacent Properties

The subject property is located within a mixed commercial/residential area of Riverside County. During the vicinity reconnaissance, Partner observed the following land use on properties in the immediate vicinity of the subject property:

#### ***Immediately Surrounding Properties***

**North:** Undeveloped lot and a single-family residence (25625 Oakwood Street)

**South:** Idyllwild Bible Church (54400 Pine Crest Avenue) and a single-family residence (25665 Oakwood Street)

**East:** Oakwood Street beyond which is an undeveloped lot

**West:** State Highway 243 beyond which is Mount San Jacinto State Park (25905 State Highway 243)

The adjacent property to the west was identified as a RCRA NonGen/NLR site in the regulatory database report of Section 4.2.

### 2.4 Physical Setting Sources

#### 2.4.1 Topography

The United States Geological Survey (USGS) *Idyllwild, California* Quadrangle 7.5-minute series topographic map was reviewed for this ESA. According to the contour lines on the topographic map, the subject property is located at approximately 5,450 feet above mean sea level (MSL). The contour lines in the area of the subject property indicate the area is sloping moderately toward the south-southwest. Structural development is not depicted on the 2018 map.

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

### **2.4.2 Hydrology**

According to topographic map interpretation, the direction of groundwater flow in the vicinity of the subject property is inferred to be toward the south-southwest. The nearest surface water in the vicinity of the subject property is the Strawberry Creek located approximately 2,000 feet east of the subject property. No settling ponds, lagoons, surface impoundments, wetlands or natural catch basins were observed at the subject property during this assessment.

According to available information, public water systems operated by the Fern Valley Water District and Idyllwild Water District serve the subject property vicinity. According to the 2018 Consumer Confidence Report, shallow groundwater beneath the subject property is not utilized for domestic purposes. The sources of public water for the City of Idyllwild are surface water from Tahquitz and Strawberry Creeks and 12 vertical groundwater wells.

According to previous subsurface investigation conducted on a nearby property (25015 Highway 243 and Case #083303997T), the depth to groundwater in the vicinity of the subject property is inferred to be approximately between 15 and 30 feet below ground surface (bgs) and groundwater flow is inferred to be toward the south-southwest.

### **2.4.3 Geology/Soils**

The general area of the subject property is located within the Peninsular Ranges Geomorphic Province. The Peninsular Ranges Province is a distinct geomorphic region characterized as a complex series of northwest-southeast oriented mountain ranges and valleys generally sub-parallel to faults composing the San Andreas rift zone. The Peninsular Ranges Geomorphic Province is further described by three fault-bounded sub-units, which include the Santa Ana, Perris and San Jacinto Blocks. The Perris Block is characterized as a broad area of intermixed valleys and low mountain ranges situated between the Elsinore and San Jacinto fault zone.

Based on information obtained from the USDA Natural Resources Conservation Service Web Soil Survey online database, the subject property is mapped as Wind River-Oak Glen families association. The Wind River-Oak Glen families association consists of deep, well drained soils that formed from residuum weathered from granite. These soils are found on mountains with slopes that range from 2 to 15 percent.

### **2.4.4 Flood Zone Information**

Partner performed a review of the Flood Insurance Rate Map, published by the Federal Emergency Management Agency. According to Community Panel Number 060245C1540G, dated August 28, 2008, the subject property appears to be located in Zone X, an area located outside of the 100-year and 500-year flood plains.

A copy of the reviewed flood map is not included in Appendix B of this report.

### 3.0 HISTORICAL INFORMATION

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

<b>Historical Use Information</b>		
<b>Period/Date</b>	<b>Source</b>	<b>Description/Use</b>
1901-1977	Aerial Photographs, Topographic Maps	Undeveloped/Native land
1978-Present	Aerial Photographs, Topographic Map, Interview	Extended Stay Motel

Motel business tenants have occupied the subject property since 1978. No potential environmental concerns were identified in association with the current or former use of the subject property.

#### 3.1 Aerial Photograph Review

Partner obtained available aerial photographs of the subject property and surrounding area from Environmental Data Resources (EDR) on October 15, 2019. The following was observed on the subject property and adjacent properties during the aerial photograph review:

<b>Date:</b>	<b>1949, 1953, 1975</b>	<b>Scale:</b>	<b>1"=500'</b>
<b>Subject Property:</b>	Appears to be undeveloped land		
<b>North:</b>	Appears to be undeveloped land and what appears to be the current dwelling		
<b>South:</b>	Appears to be undeveloped land		
<b>East:</b>	Appears to be undeveloped land across Oakwood Street		
<b>West:</b>	Appears to be undeveloped land across State Highway 243		

<b>Date:</b>	<b>1978</b>	<b>Scale:</b>	<b>1"=500'</b>
<b>Subject Property:</b>	Appears to be developed with the current three motel structures on the western portion of the subject property. The eastern portion is undeveloped.		
<b>North:</b>	No significant changes visible		
<b>South:</b>	Appears to be undeveloped land with what appears to be the current dwelling		
<b>East:</b>	No significant changes visible		
<b>West:</b>	Appears to be developed with the current state park across State Highway 243		

<b>Date:</b>	<b>1985, 1996, 2002, 2005, 2009</b>	<b>Scale:</b>	<b>1"=500'</b>
<b>Subject Property:</b>	No significant changes visible except there appears to be a swimming pool present on the eastern portion of the subject property.		
<b>North:</b>	No significant changes visible		
<b>South:</b>	Appears to be developed with the current church building and dwelling		
<b>East:</b>	No significant changes visible		
<b>West:</b>	No significant changes visible		

<b>Date:</b>	<b>2012, 2016</b>	<b>Scale:</b>	<b>1"=500'</b>
<b>Subject Property:</b>	No significant changes visible except it appears that the swimming pool is no longer present		
<b>North:</b>	No significant changes visible		
<b>South:</b>	No significant changes visible		
<b>East:</b>	No significant changes visible		
<b>West:</b>	No significant changes visible		

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

### 3.2 Fire Insurance Maps

Partner reviewed the collection of Sanborn Fire insurance maps from Environmental Data Resources (EDR) on October 15, 2019. Sanborn map coverage was not available for the subject property.

### 3.3 City Directories

Partner reviewed historical city directories obtained from Environmental Data Resources (EDR) on October 17, 2019 for past names and businesses that were listed for the subject property and adjacent properties.

The subject property address of 25840 Idyllwild Road was not listed in any of the city directories reviewed.

The findings for the adjacent properties are presented in the following table:

#### *City Directory Search for Adjacent Properties*

<b>Year(s)</b>	<b>Occupant Listed</b>
1975	Residential listings (25625 and 25665 Oakwood Street)
1981, 1985, 1990, 1995	No listings (25625 to 25665 Oakwood Street)
2000, 2005	Residential listings (25625 to 25665 Oakwood Street)
2010, 2014	Residential listing (25630 Oakwood Street)

Based on the city directory review, no environmentally sensitive listings were identified for the adjacent property addresses.

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

### 3.4 Historical Topographic Maps

Partner reviewed historical topographic maps obtained from Environmental Data Resources (EDR) on October 15, 2019. The following was observed on the subject property and adjacent properties during the topographic map review:

#### *Date: 1901*

<b>Subject Property:</b>	Appears to be undeveloped with an unpaved road present
<b>North:</b>	Appears to be undeveloped
<b>South:</b>	Appears to be undeveloped
<b>East:</b>	Appears to be undeveloped
<b>West:</b>	Appears to be undeveloped

#### *Date: 1940, 1942/1944, 1947*

<b>Subject Property:</b>	Appears to be undeveloped
<b>North:</b>	Appears to be developed with two dwellings
<b>South:</b>	Appears to be developed with three dwellings
<b>East:</b>	Appears to be undeveloped

**Date:** 1940, 1942/1944, 1947

**West:** Appears to be undeveloped across State Highway 243

**Date:** 1957/1959

**Subject Property:** Shaded indicating built-up area with no structures depicted

**North:** Shaded indicating built-up area with no structures depicted

**South:** Shaded indicating built-up area with no structures depicted

**East:** Shaded indicating built-up area with no structures depicted

**West:** Identified as Mt Jacinto State Park across State Highway 243

**Date:** 1981, 1988, 1996

**Subject Property:** Partially shaded indicating built-up area with no structures depicted

**North:** Identified as a Borrow Pit

**South:** Partially shaded indicating built-up area with no structures depicted

**East:** Shaded indicating built-up area with no structures depicted across Oakwood Street

**West:** Identified as Mt San Jacinto State Park Headquarters across State Highway 243

**Date:** 2012

**Subject Property:** No structures are depicted

**North:** No structures are depicted

**South:** No structures are depicted

**East:** No structures are depicted across Oakwood Street

**West:** No structures are depicted across State Highway 243

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

## 4.0 REGULATORY RECORDS REVIEW

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### 4.1 Regulatory Agencies

#### 4.1.1 State Department

##### *Regulatory Agency Data*

<b>Name of Agency:</b>	Riverside County Department of Environmental Health (RCDEH)
<b>Agency Address:</b>	4065 County Circle Drive, Room 104, Riverside, California
<b>Agency Phone Number:</b>	(951) 358-5055
<b>Date of Contact:</b>	October 30, 2019
<b>Method of Communication:</b>	Email
<b>Summary of Communication:</b>	As of the date of this report, Partner has not received a response from the RCDEH for inclusion in this report.

#### 4.1.2 Fire Department

##### *Regulatory Agency Data*

<b>Name of Agency:</b>	Idyllwild Fire Protection District (IFPD)
<b>Point of Contact:</b>	Rachel Teeguarden
<b>Agency Address:</b>	54160 Maranatha Drive, PO Box 656, Idyllwild, California
<b>Agency Phone Number:</b>	(951) 659-2153
<b>Date of Contact:</b>	October 30, 2019
<b>Method of Communication:</b>	Email
<b>Summary of Communication:</b>	No records regarding hazardous substance use, storage or releases, or the presence of USTs and AULs on the subject property were on file with the IFPD and IFPD indicated they do not own property at the subject property address.

Copies of pertinent documents are included in Appendix B of this report.

#### 4.1.3 Air Pollution Control Agency

##### *Regulatory Agency Data*

<b>Name of Agency:</b>	South Coast Air Quality Management District (AQMD)
<b>Point of Contact:</b>	<a href="http://www3.aqmd.gov/webappl/fim/prog/search.aspx">http://www3.aqmd.gov/webappl/fim/prog/search.aspx</a>
<b>Agency Address:</b>	21865 Copley Drive, Diamond Bar, California 91765
<b>Agency Phone Number:</b>	(909) 396-2000
<b>Date of Contact:</b>	October 30, 2019
<b>Method of Communication:</b>	Online
<b>Summary of Communication:</b>	No Permits to Operate (PTO), Notices of Violation (NOV), or Notices to Comply (NTC) or the presence of AULs, dry cleaning machines, or USTs were on file for the subject property with the AQMD.

#### 4.1.4 Regional Water Quality Agency

##### *Regulatory Agency Data*

<b>Name of Agency:</b>	Regional Water Quality Control Board (RWQCB)
<b>Point of Contact:</b>	<a href="http://geotracker.waterboards.ca.gov/default.asp">http://geotracker.waterboards.ca.gov/default.asp</a>
<b>Agency Address:</b>	320 West 4 <sup>th</sup> Street, St #200, Los Angeles, California
<b>Agency Phone Number:</b>	(916) 341-5791



#### Regulatory Agency Data

**Date of Contact:** October 30, 2019  
**Method of Communication:** Online  
**Summary of Communication:** No records regarding hazardous substance use, storage or releases, or the presence of USTs and AULs on the subject property were on file with the RWQCB.

#### 4.1.5 Department of Toxic Substances Control

#### Regulatory Agency Data

**Name of Agency:** California Department of Toxic Substances Control (DTSC)  
**Point of Contact:** <http://www.envirostor.dtsc.ca.gov/public/>  
[http://hwts.dtsc.ca.gov/report\\_list.cfm](http://hwts.dtsc.ca.gov/report_list.cfm)  
**Agency Address:** 1010 I Street, Sacramento, California  
**Agency Phone Number:** (800) 728-3618  
**Date of Contact:** October 30, 2019  
**Method of Communication:** Online  
**Summary of Communication:** No records regarding hazardous substance use, storage or releases, or the presence of USTs and AULs on the subject property were on file with the DTSC.

#### 4.1.6 Building Department

#### Regulatory Agency Data

**Name of Agency:** Riverside County Building and Safety Department  
**Point of Contact:** <https://rctima.org/buildiing/>  
**Agency Address:** 4080 Lemon Street, 9<sup>th</sup> Floor, Riverside, California  
**Agency Phone Number:** (951) 955-1491  
**Date of Contact:** October 30, 2019  
**Method of Communication:** Online  
**Summary of Communication:** Records were available for review online from the Riverside County website is summarized below:

#### Building Records Reviewed for 25840 Idyllwild Road (Subject Property)

Year(s)	Owner/Applicant	Description
Not provided	Not provided	Permit for Demolition of Commercial Pool
Not provided	Not provided	Permit for light/circuit inspection
Not provided	Not provided	Permit for 18-unit meter
Not provided	Not provided	Permit for temporary construction service

#### 4.1.7 Planning Department

#### Regulatory Agency Data

**Name of Agency:** Riverside County Planning Department  
**Point of Contact:** Online Database  
**Agency Address:** 4080 Lemon Street, Riverside, California  
**Agency Phone Number:** (951) 955-3200  
**Date of Contact:** October 30, 2019  
**Method of Communication:** Online  
**Summary of Communication:** According to records reviewed, the subject property is zoned R-3A

### Regulatory Agency Data

for Village Tourist Residential development by the County of Riverside. Permitted uses include the following: One-family dwellings, Approved commercial uses are conducted entirely within a one family dwelling and are secondary to the principal use of the dwelling as a residence, Home Occupation, Churches, temples, and other places of religious worship, educational institutions, public libraries and museums not operated for compensation or profit, Sports and recreational facilities, not including video arcades, motor-driven vehicles and riding academies, Child Day Care Center, Field crops, flower and vegetable gardening, tree crops, and greenhouses used only for purposes of propagation and culture, including the sale thereof from the premises and one unlighted sign that does not exceed two square feet in size pertaining to sale of the products, Planned residential developments, the noncommercial raising of not more than one (1) miniature pig on lots from 7,200 to 19,999 square feet or not more than two (2) miniature pigs on lots of not less than 20,000 square feet.

#### 4.1.8 Oil & Gas Exploration

### Regulatory Agency Data

**Name of Agency:** California Division of Oil, Gas and Geothermal Resources (DOGGR)  
**Point of Contact:** <http://maps.conservation.ca.gov/doggr/#close>  
**Agency Address:** 4800 Stockdale Highway #100, Bakersfield, California  
**Agency Phone Number:** (916) 322-1080  
**Date of Contact:** October 30, 2019  
**Method of Communication:** Online  
**Summary of Communication:** According to DOGGR, no oil or gas wells are located on or adjacent to the subject property.

#### 4.1.9 Assessor's Office

### Regulatory Agency Data

**Name of Agency:** Riverside County Assessor  
**Point of Contact:** <http://pic.asrclkrec.com/KSearch.aspx>  
**Agency Address:** 2724 Riverside Drive, Riverside, California  
**Agency Phone Number:** (951) 955-6200  
**Date of Contact:** October 14, 2019  
**Method of Communication:** Online  
**Summary of Communication:** According to records reviewed, the subject property is identified by Assessor Parcel Number (APN) 563-250-028-3. The property is a 1.45-acre lot. No records regarding property ownership, building, and utility information for the subject property was on file with the County Assessor.

Copies of pertinent documents are included in Appendix B of this report.

## 4.2 Mapped Database Records Search

Information from standard federal, state, county, and city environmental record sources was provided by Environmental Data Resources, Inc. (EDR). Data from governmental agency lists are updated and integrated into one database, which is updated as these data are released. The information contained in this report was compiled from publicly available sources and the locations of the sites are plotted utilizing a geographic information system, which geocodes the site addresses. The accuracy of the geocoded locations is approximately +/-300 feet.

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

### 4.2.1 Regulatory Database Summary

<b>Radius Report Data</b>				
<b>Database</b>	<b>Search Radius (mile)</b>	<b>Subject Property</b>	<b>Adjacent Properties</b>	<b>Sites of Concern</b>
Federal NPL or Delisted NPL Site	1.00	N	N	N
Federal CERCLIS Site	0.50	N	N	N
Federal CERCLIS-NFRAP Site	0.50	N	N	N
Federal RCRA CORRACTS Facility	1.00	N	N	N
Federal RCRA TSD Facility	0.50	N	N	N
Federal RCRA Generators Site (LQG, SQG, CESQG)	0.25	N	<b>Y</b>	N
Federal IC/EC Registries	0.50	N	N	N
Federal ERNS Site	Subject Property	N	N	N
State/Tribal Equivalent NPL	1.00	N	N	N
State/Tribal Equivalent CERCLIS	1.00	N	N	N
State/Tribal Landfill/Solid Waste Disposal Site	0.50	N	N	N
State/Tribal Leaking Storage Tank Site	0.50	N	N	N
State/Tribal Registered Storage Tank Sites (UST/AST)	0.25	N	N	N
State/Tribal Voluntary Cleanup Sites (VCP)	0.50	N	N	N
State/Tribal Spills	0.50	N	N	N
Federal Brownfield Sites	0.50	N	N	N
State Brownfield Sites	0.50	N	N	N
EDR MGP	Varies	N	N	N
EDR US Hist Auto Station	Varies	N	N	N
EDR US Hist Cleaners	Varies	N	N	N

### 4.2.2 Subject Property Listings

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

### 4.2.3 Adjacent Property Listings

The adjacent property to the west is identified as a RCRA NonGen/NLR site in the regulatory database report, as discussed below:

- The property, identified as California State Parks Mount San Jacinto SP at 25905 Highway 243, is located adjacent to the west of the subject property. This site is listed a non-generator, does not currently generate hazardous wastes, and is only a transporter of hazardous wastes. Since the facility does not generate hazardous wastes and based on the absence of reported violations, this listing is not expected to represent a significant environmental concern.

Based on the findings, vapor migration is not expected to represent a significant environmental concern at this time.

#### **4.2.4 Sites of Concern Listings**

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

#### **4.2.5 Orphan Listings**

No orphan listings of concern are identified in the regulatory database report.

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

## 5.0 USER PROVIDED INFORMATION AND INTERVIEWS

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

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

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

Pursuant to ASTM E1527-13, Partner requested the following site information from WSCS Design (User of this report).

### ***User Responsibilities***

<b>Item</b>	<b>Provided By User</b>	<b>Not Provided By User</b>	<b>Discussed Below</b>	<b>Does Not Apply</b>
Environmental Pre-Survey Questionnaire			X	
Title Records, Environmental Liens, and AULs		X		
Specialized Knowledge		X		
Actual Knowledge		X		
Valuation Reduction for Environmental Issues		X		
Identification of Key Site Manager	<b>Section 5.1.3</b>			
Reason for Performing Phase I ESA	<b>Section 1.1</b>			
Prior Environmental Reports		X		
Other		X		

## 5.1 Interviews

### 5.1.1 Interview with Owner

Mr. Shane Stewart with Rustic Rentals LLC, subject property owner, was not aware of any pending, threatened, or past litigation relevant to hazardous substances or petroleum products in, on, or from the subject property; any pending, threatened, or past administrative proceedings relevant to hazardous

substances or petroleum products in, on, or from the subject property; or any notices from a governmental entity regarding any possible violation of environmental laws or possible liability relating to hazardous substances or petroleum products.

According to Mr. Stewart, the subject property was developed in 1978 for commercial use. Prior to that, the subject property was undeveloped. Mr. Stewart purchased the subject property in October of 2016 and further stated that there are no USTs, clarifiers, oil/water separators, groundwater monitoring wells, or hazardous substance use/storage/generation on the subject property to the best of his knowledge.

### **5.1.2 Interview with Report User**

Please refer to Section 5.2 below for information requested from the Report User. The information requested was not received prior to the issuance of this report. The lack of this information is not considered to represent a significant data gap.

### **5.1.3 Interview with Key Site Manager**

Mr. Stewart, who is also the key site manager, indicated that he had no information pertaining to any pending, threatened, or past litigation relevant to hazardous substances or petroleum products in, on, or from the subject property; any pending, threatened, or past administrative proceedings relevant to hazardous substances or petroleum products in, on, or from the subject property; or any notices from a governmental entity regarding any possible violation of environmental laws or possible liability relating to hazardous substances or petroleum products.

### **5.1.4 Interviews with Past Owners, Operators and Occupants**

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

### **5.1.5 Interview with Others**

As the subject property is not an abandoned property as defined in ASTM 1527-13, interview with others were not performed.

## **5.2 User Provided Information**

### **5.2.1 Title Records, Environmental Liens, and AULs**

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

### **5.2.2 Specialized Knowledge**

No specialized knowledge of environmental conditions associated with the subject property was provided by the User at the time of the assessment.

### **5.2.3 Actual Knowledge of the User**

No actual knowledge of any environmental lien or AULs encumbering the subject property or in connection with the subject property was provided by the User at the time of the assessment.

#### **5.2.4 Valuation Reduction for Environmental Issues**

No knowledge of valuation reductions associated with the subject property was provided by the User at the time of the assessment.

#### **5.2.5 Commonly Known or Reasonably Ascertainable Information**

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

#### **5.2.6 Previous Reports and Other Provided Documentation**

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

## 6.0 SITE RECONNAISSANCE

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

### *Site Assessment Data*

**Site Assessment Performed By:** Chong Ly  
**Site Assessment Conducted On:** October 31, 2019

The table below provides the subject property personnel interviewed during the field reconnaissance:

### *Site Visit Personnel for 25840 Idyllwild Road (Subject Property)*

<b>Name</b>	<b>Title/Role</b>	<b>Contact Number</b>	<b>Site Walk* Yes/No</b>
Shane Stewart	Key Site Manager	(951) 500-6140	Yes

\* Accompanied Partner during the field reconnaissance activities and provided information pertaining to the current operations and maintenance of the subject property

No potential environmental concerns were identified during the onsite reconnaissance.

### **6.1 General Site Characteristics**

#### **6.1.1 Solid Waste Disposal**

According to Mr. Stewart, solid waste generated at the subject property is disposed of by each individual occupant of the motel units at the off-site transfer station in the City of Idyllwild. No evidence of illegal dumping of solid waste was observed during the Partner site reconnaissance.

#### **6.1.2 Sewage Discharge and Disposal**

Sanitary discharges on the subject property are directed into the municipal sanitary sewer system. The City of Idyllwild services the subject property vicinity. No wastewater treatment facilities or septic systems were observed or reported on the subject property.

#### **6.1.3 Surface Water Drainage**

Storm water is removed from the subject property primarily by sheet flow action across the paved and unpaved surfaces towards the public right of way. Site storm water from roofs, landscaped areas, and paved areas, which drain to the public right of way. The subject property is connected to a municipal owned and maintained sewer system.

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



#### **6.1.4 Source of Heating and Cooling**

There is no cooling system on the subject property. Heating system as well as domestic hot water equipment are fueled by propane gas provided by two 500-gallon aboveground propane storage tanks maintained by Suburban Propane. The mechanical system is comprised of individual wall heaters in each motel unit fueled by propane gas. Hot water is provided by two 100-gallon water heaters fueled by propane gas.

#### **6.1.5 Wells and Cisterns**

No aboveground evidence of wells or cisterns was observed during the site reconnaissance except for an active water well located at the eastern end of the subject property. According to Mr. Stewart, the County of Riverside installed the water well and the associated water pump house when a former swimming pool on the subject property was constructed in 1983. According to historical aerial photographs, the swimming pool was likely demolished and filled in sometime between 2009 and 2012. The water pump house is currently inactive, and the water well is still active but the water is not currently being utilized. As no hazardous materials or petroleum products are stored in the vicinity of the well, this feature is not expected to represent a significant environmental concern.

#### **6.1.6 Wastewater**

Domestic wastewater generated at the subject property is disposed by means of the sanitary sewer system. No industrial process is currently performed at the subject property.

#### **6.1.7 Septic Systems**

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

#### **6.1.8 Additional Site Observations**

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

### **6.2 Potential Environmental Hazards**

#### **6.2.1 Hazardous Substances and Petroleum Products Used or Stored at the Site**

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

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

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

Partner observed two 500-gallon aboveground storage tanks (ASTs) for the storage of propane gas on the subject property. The ASTs are located on the northwest corner of the subject property and are situated on concrete blocks. According to Mr. Stewart, the propane gas ASTs are used to fuel the wall heaters and ovens in each unit, two laundry room dryers, and two water heater tanks. No evidence of releases was noted in the vicinity of the ASTs.

### **6.2.3 Evidence of Releases**

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

### **6.2.4 Polychlorinated Biphenyls (PCBs)**

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

### **6.2.5 Strong, Pungent or Noxious Odors**

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

### **6.2.6 Pools of Liquid**

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

### **6.2.7 Drains, Sumps and Clarifiers**

No drains, sumps, or clarifiers, other than those associated with storm water removal, were observed on the subject property during the site reconnaissance.

### **6.2.8 Pits, Ponds and Lagoons**

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

### **6.2.9 Stressed Vegetation**

No stressed vegetation was observed on the subject property.

### **6.2.10 Additional Potential Environmental Hazards**

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

## **6.3 Non-ASTM Services**

### **6.3.1 Asbestos-Containing Materials (ACMs)**

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

The subject property buildings were constructed in 1978 and may have asbestos containing materials (ACMs: materials containing >1% asbestiform components determined by the EPA 600/R-93/116 Method using Polarized Light Microscopy) present. The table below outlines suspect ACM that is generally found in buildings of this age:

#### **Suspect ACM**

Drywall Systems

Floor Tiles

**Suspect ACM**  
Floor Tile Mastic

Based on this building’s date of construction, prior to disturbance, Partner recommends a comprehensive asbestos survey of the property be completed to determine the presence, condition, friability and likely future condition of suspect or confirmed ACM. All suspect materials must be handled as ACM according to local, state and federal regulations until the results of sampling and analysis indicate the material is a non-ACM. According to the US EPA, ACM that is intact and in good condition can, in general, be managed safely in-place under an Operations and Maintenance (O&M) Program until removal is dictated by renovation, demolition, or deteriorating material condition

**6.3.2 Lead-Based Paint (LBP)**

Lead is a highly toxic metal that affects virtually every system of the body. LBP is defined as any paint, varnish, stain, or other applied coating that has 1 mg/cm<sup>2</sup> (or 5,000 ug/g or 0.5% by weight) or more of lead. Congress passed the Residential Lead-Based Paint Hazard Reduction Act of 1992, also known as “Title X”, to protect families from exposure to lead from paint, dust, and soil. Under Section 1017 of Title X, intact LBP on most walls and ceilings is not considered a “hazard,” although the condition of the paint should be monitored and maintained to ensure that it does not become deteriorated. Further, Section 1018 of this law directed the Housing and Urban Development (HUD) and the US EPA to require the disclosure of known information on LBP and LBP hazards before the sale or lease of most housing built before 1978.

Based on the age of the subject property buildings (1978), there is a potential that LBP is present. Interior and exterior painted surfaces were observed in good condition and therefore not expected to represent a “hazard,” although the condition of the paint should be monitored and maintained to ensure that it does not become deteriorated.

**6.3.3 Radon**

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

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

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

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

#### **6.3.4 Lead in Drinking Water**

According to available information, a public water system operated by the Idyllwild Water District serves the subject property vicinity. According to the 2018 Consumer Confidence Report, shallow groundwater beneath the subject property is not utilized for domestic purposes. The sources of public water for the City of Idyllwild are surface water from Tahquitz and Strawberry Creeks and 12 vertical groundwater wells. According to the 2018 Consumer Confidence Report, water supplied to the subject property is in compliance with all State and Federal regulations pertaining to drinking water standards, including lead and copper.

#### **6.3.5 Mold**

Molds are microscopic organisms found virtually everywhere, indoors and outdoors. Mold will grow and multiply under the right conditions, needing only sufficient moisture (e.g. in the form of very high humidity, condensation, or water from a leaking pipe, etc.) and organic material (e.g., ceiling tile, drywall, paper, or natural fiber carpet padding).

Partner was not provided access to the interior areas for the subject property motel buildings except for the laundry room, which is the only common area on the subject property. Therefore, a visual assessment for mold was limited. No obvious indications of water damage or mold growth were observed during Partner's visual assessment of the laundry room.

#### **6.4 Adjacent Property Reconnaissance**

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

## 7.0 FINDINGS AND CONCLUSIONS

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### Findings

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

- Partner did not identify any recognized environmental conditions during the course of this assessment.

A *controlled recognized environmental condition (CREC)* refers to a REC resulting from 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. The following was identified during the course of this assessment:

- Partner did not identify any controlled recognized environmental conditions during the course of this assessment.

A *historical recognized environmental condition (HREC)* refers to 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. The following was identified during the course of this assessment:

- Partner did not identify any historical recognized environmental conditions during the course of this assessment.

An *environmental issue* refers to environmental concerns identified by Partner, which do not qualify as RECs; however, warrant further discussion. The following was identified during the course of this assessment:

- An unutilized water well was observed on the eastern portion of the subject property. According to the property owner, the well was installed in conjunction with the former swimming pool in 1983. The swimming pool was demolished and filled in between 2009 and 2012, but the well has reportedly not been decommissioned. As no hazardous materials or petroleum products are stored in the vicinity of the well, this feature is not expected to represent a significant environmental concern.
- Due to the age of the subject property buildings, there is a potential that asbestos-containing material (ACM) and/or lead-based paint (LBP) are present. Any suspect ACMs would need to be sampled to confirm the presence or absence of asbestos prior to any renovation or demolition activities to prevent potential exposure to workers and/or building occupants.

## **Conclusions, Opinions and Recommendations**

Partner has performed a Phase I Environmental Site Assessment in conformance with the scope and limitations of ASTM Practice E1527-13 of 25840 Idyllwild Road in Idyllwild, Riverside County, California (the "subject property"). Any exceptions to, or deletions from, this practice are described in Section 1.5 of this report.

This assessment has revealed no evidence of recognized environmental conditions in connection with the subject property; however, environmental issues were identified. Based on the conclusions of this assessment, Partner recommends the following:

- The unutilized well on the eastern portion of the subject property should be properly decommissioned.
- An Operations and Maintenance (O&M) Program should be implemented in order to safely manage any suspect ACMs and LBP located at the subject property.

## 8.0 SIGNATURES OF ENVIRONMENTAL PROFESSIONALS

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Partner has performed a Phase I Environmental Site Assessment of the property located at 25840 Idyllwild Road in Idyllwild, Riverside County, California in conformance with the scope and limitations of the protocol and the limitations stated earlier in this report. Exceptions to or deletions from this protocol are discussed earlier in this report.

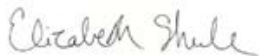
By signing below, Partner declares that, to the best of our professional knowledge and belief, we meet the definition of *Environmental Professional* as defined in §312.10 of 40 CFR §312. Partner has the specific qualifications based on education, training, and experience to assess a *property* of the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

Prepared By:



Chong Ly  
Environmental Professional

Reviewed By:



Elizabeth Shule  
Project Manager

## 9.0 REFERENCES

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### Reference Documents

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

Environmental Data Resources (EDR), Radius Report, October 2019

Federal Emergency Management Agency, Federal Insurance Administration, National Flood Insurance Program, Flood Insurance Map, accessed via internet, November 2019

United States Department of Agriculture, Natural Resources Conservation Service, accessed via internet, November 2019

United States Department of Agriculture, Natural Resources Conservation Service, Web Soil Survey, accessed via the internet, November 2019

United States Environmental Protection Agency, EPA Map of Radon Zones (Document EPA-402-R-93-071), accessed via the internet, November 2019

United States Geological Survey, accessed via the Internet, November 2019

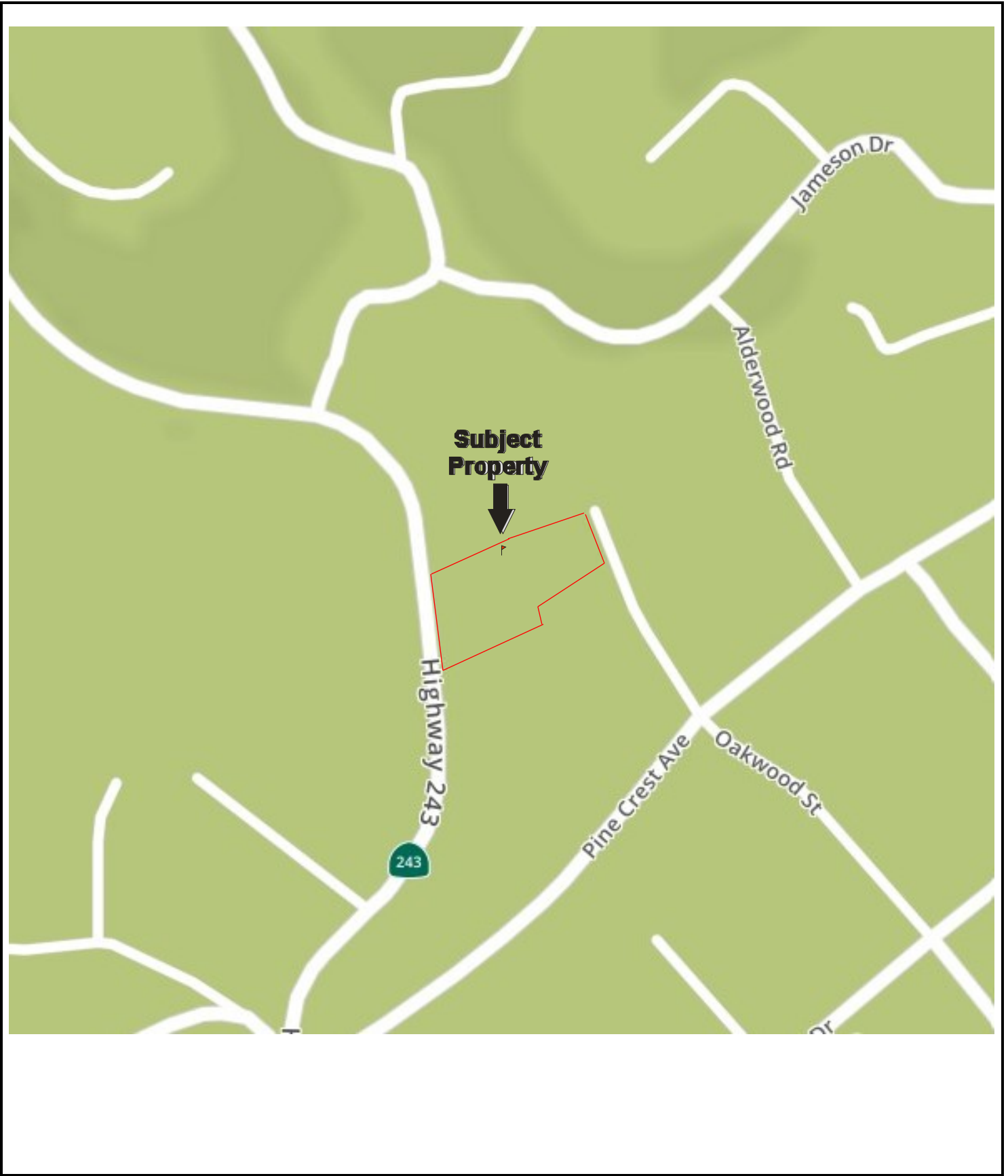
United States Geological Survey Topographic Map 2018, 7.5 minute series, accessed via internet, October 2019



## **FIGURES**

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



Drawing Not To Scale

KEY:  
Subject Property 

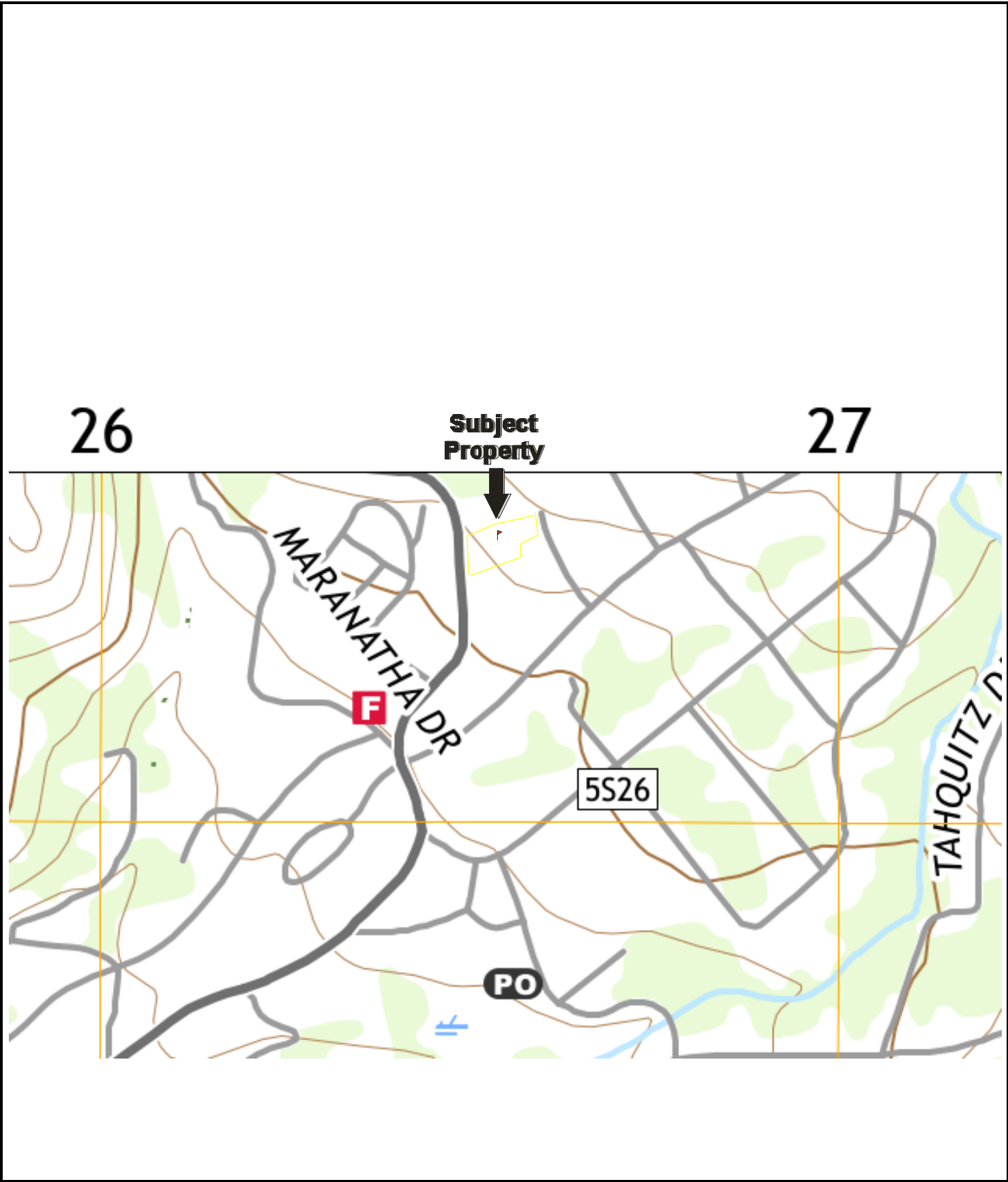
**FIGURE 1: SITE LOCATION MAP**  
Project No. 19-262661.1



**GROUNDWATER FLOW**

KEY:  
 Subject Property

**FIGURE 2: SITE PLAN**  
 Project No. 19-262661.1



USGS 7.5 Minute *Idyllwild, California* Quadrangle  
Created: 2018

KEY:  
Subject Property 

**FIGURE 3: TOPOGRAPHIC MAP**  
Project No. 19-262661.1



## **APPENDIX A: SITE PHOTOGRAPHS**

---



1. Looking east towards the subject property from CA Highway 243



2. Looking south towards the subject property



3. Looking north towards the subject property



4. Looking west towards the subject property from Oakwood Street



5. Northern motel building on the subject property



6. Eastern motel building on the subject property



7. Southern motel building on the subject property



8. View behind the southern motel building



9. Entrance to the laundry room



10. Inside of the laundry room



11. Typical motel area grounds



12. Two 500-gallon aboveground propane tanks located in the northwest corner of the subject property



13. Driveway commencing from CA Highway 243 through the subject property



14. Location of the proposed 7-unit structure at the eastern half of the subject property



15. Location of the proposed 2-unit structure at the eastern half of the subject property



16. Location of the other proposed 2-unit structure at the eastern half of the subject property



17. Existing inactive water pump house and active water well located at the eastern end of the subject property



18. Existing inactive water pump house and active water well





19. Active water well



20. Unpaved parking area



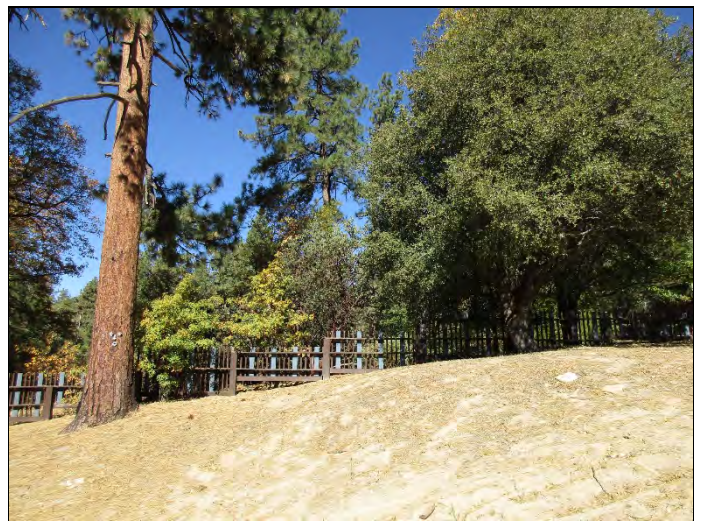
21. Looking east from the subject property



22. Looking west from the subject property

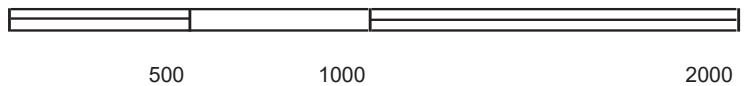
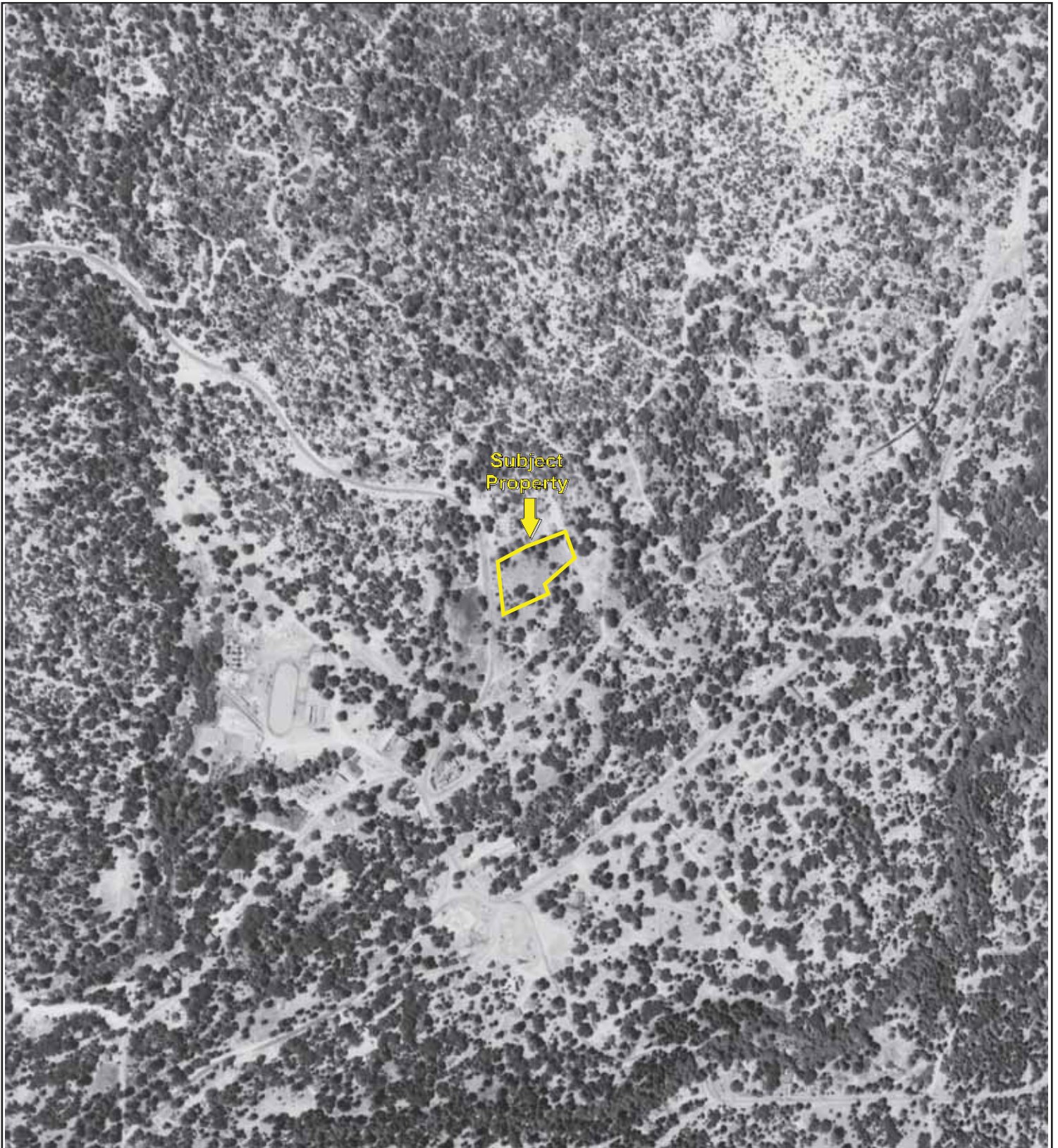


23. Looking south from the subject property

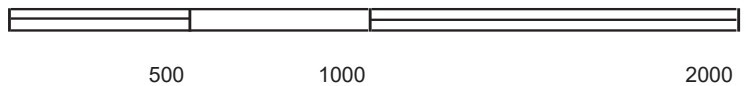
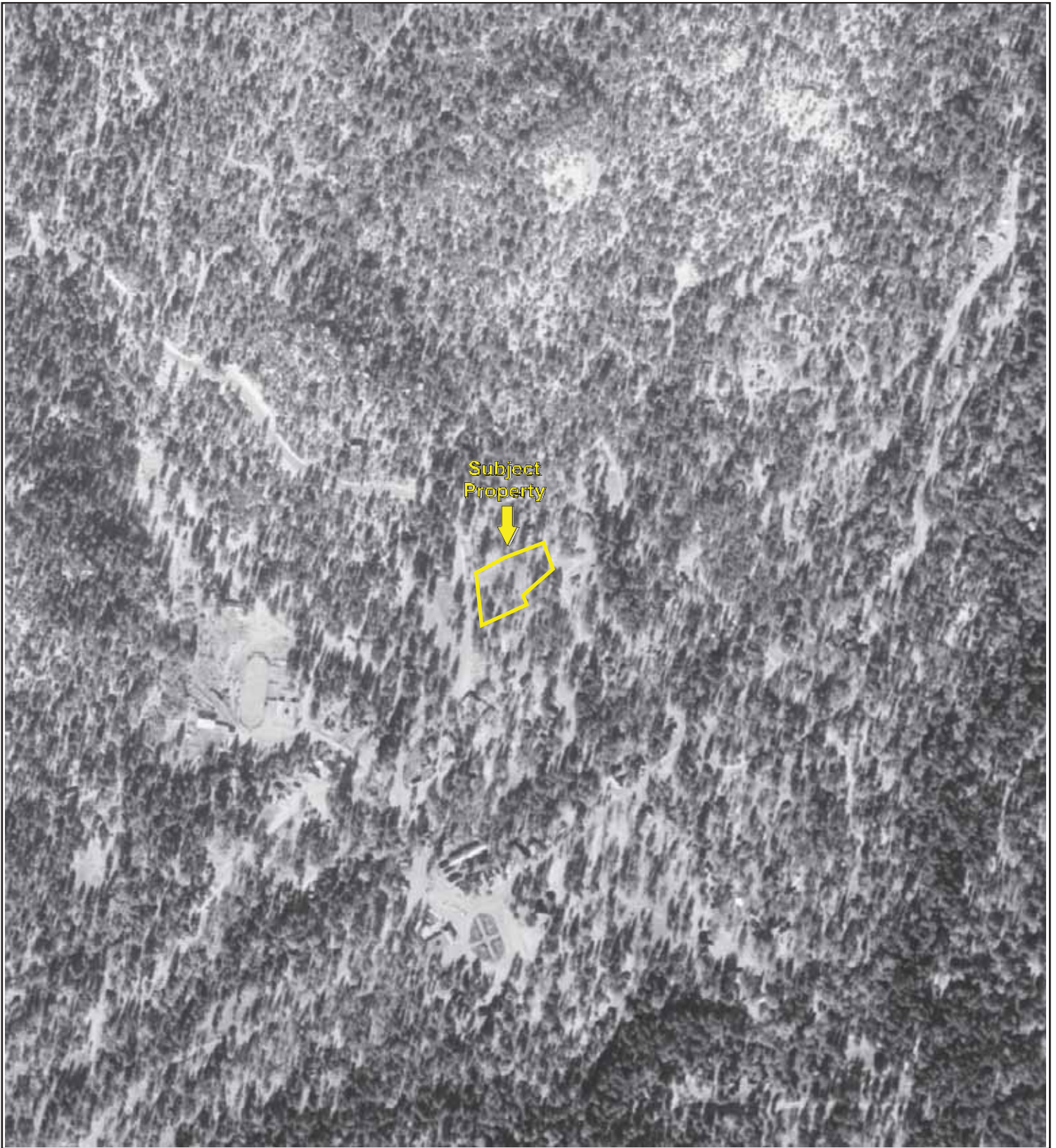


24. Looking north from the subject property

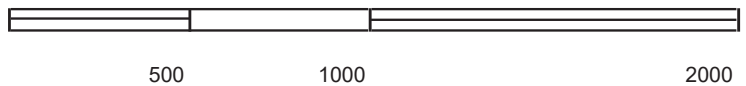
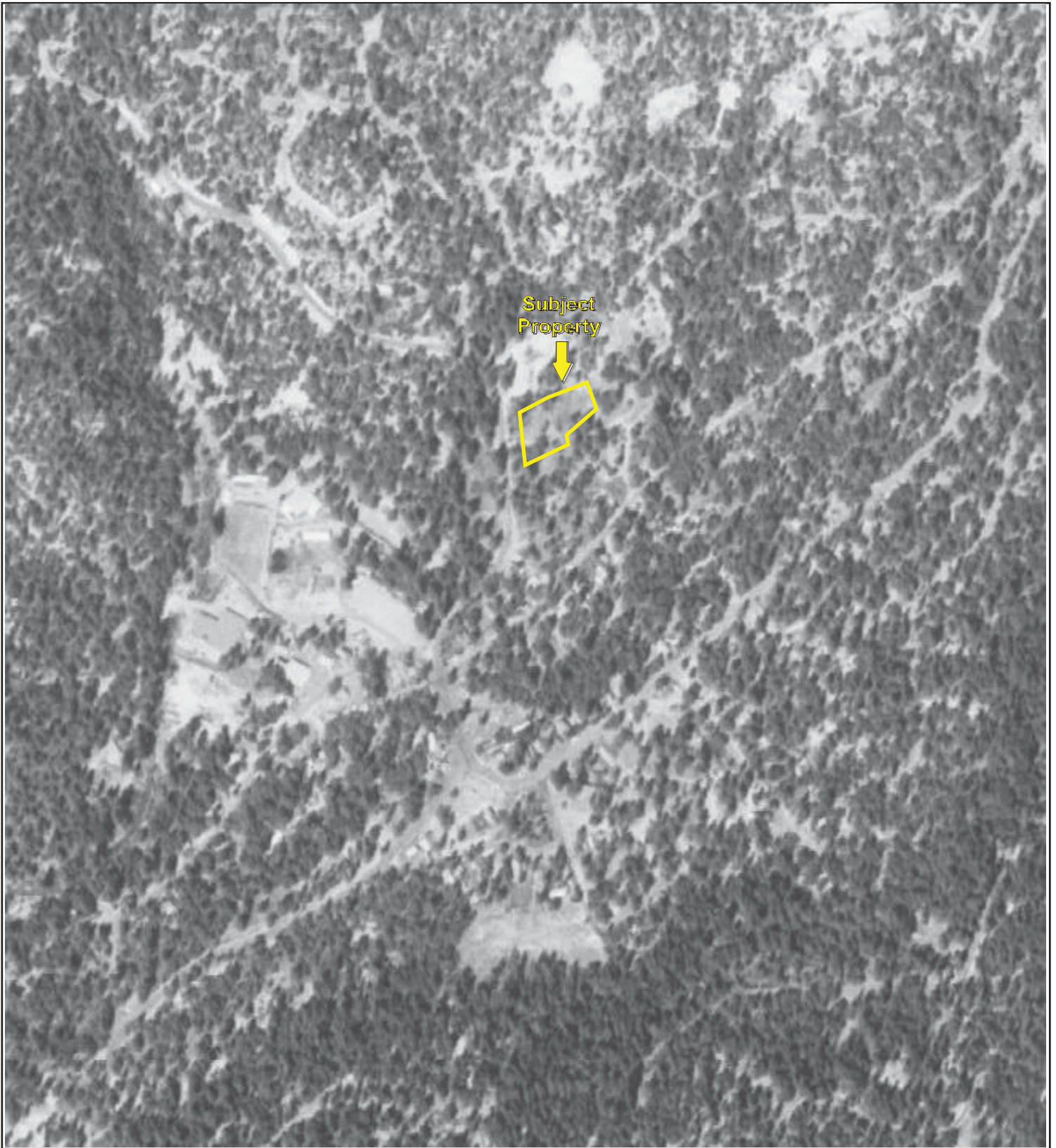
## **APPENDIX B: HISTORICAL/REGULATORY DOCUMENTATION**



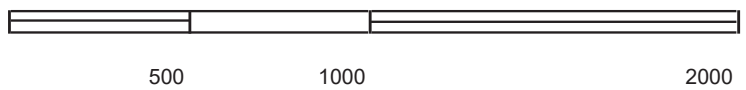
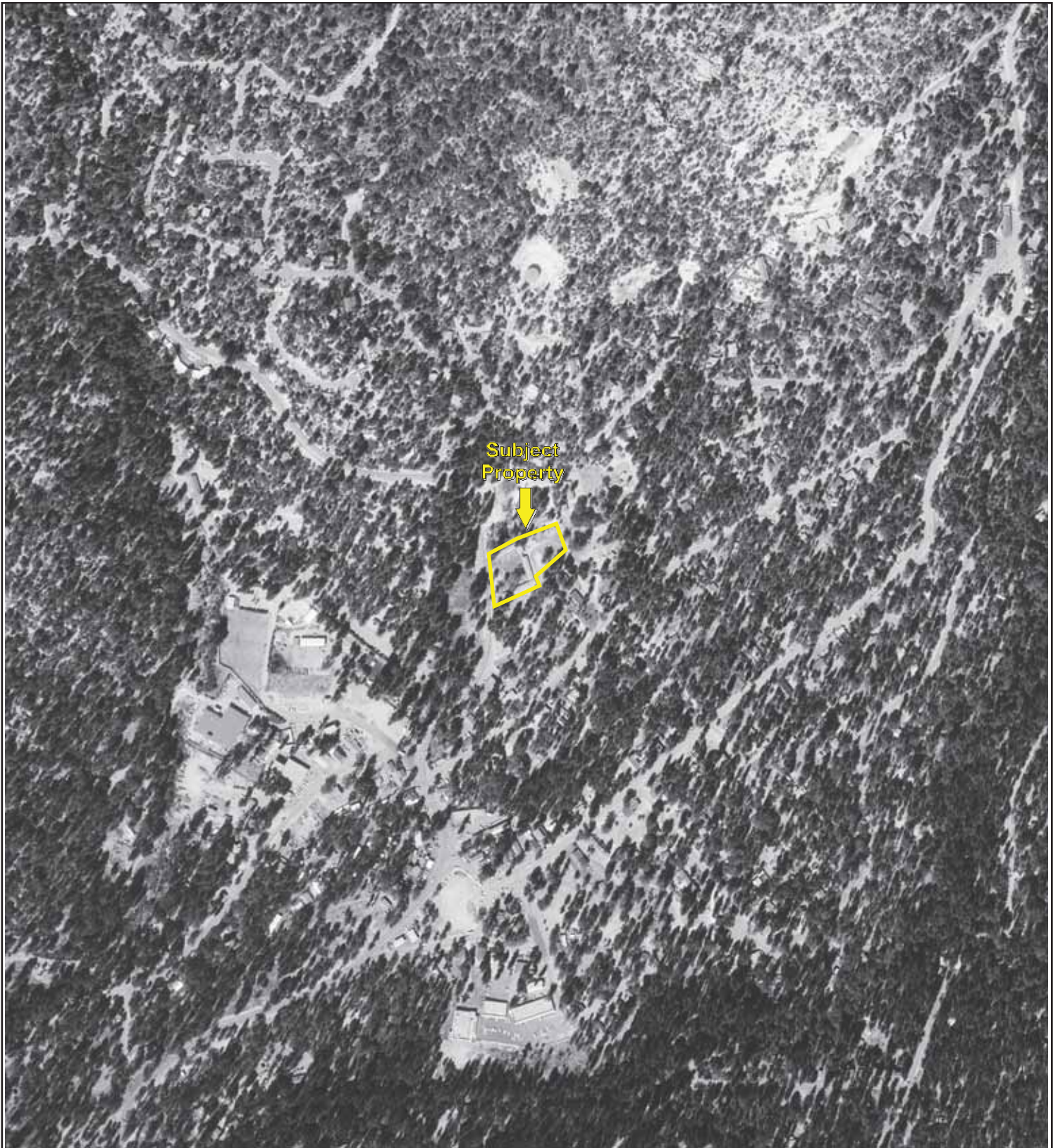
Key: Subject Property 



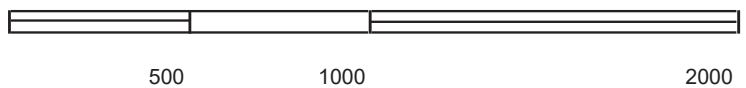
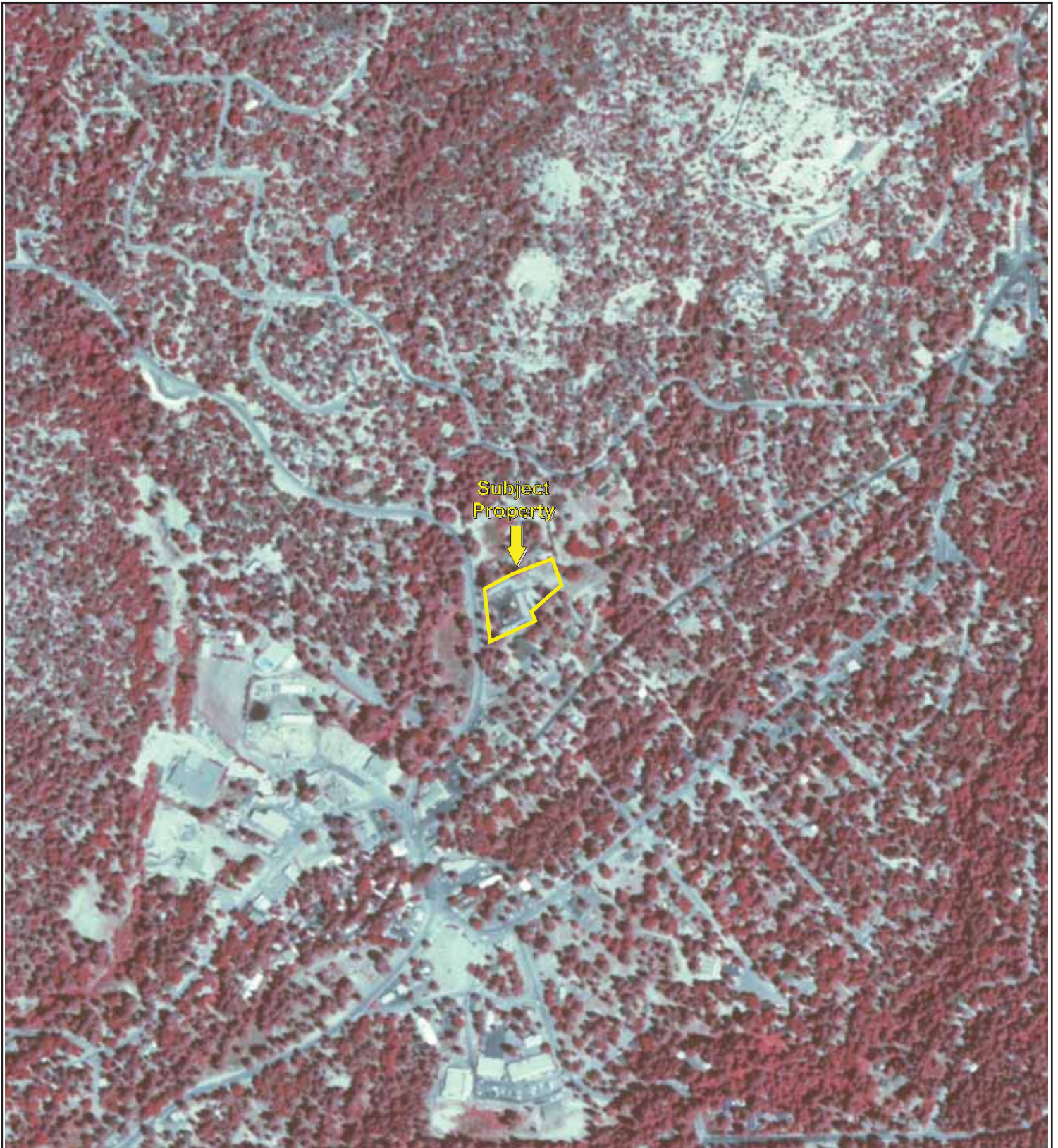
Key: Subject Property 



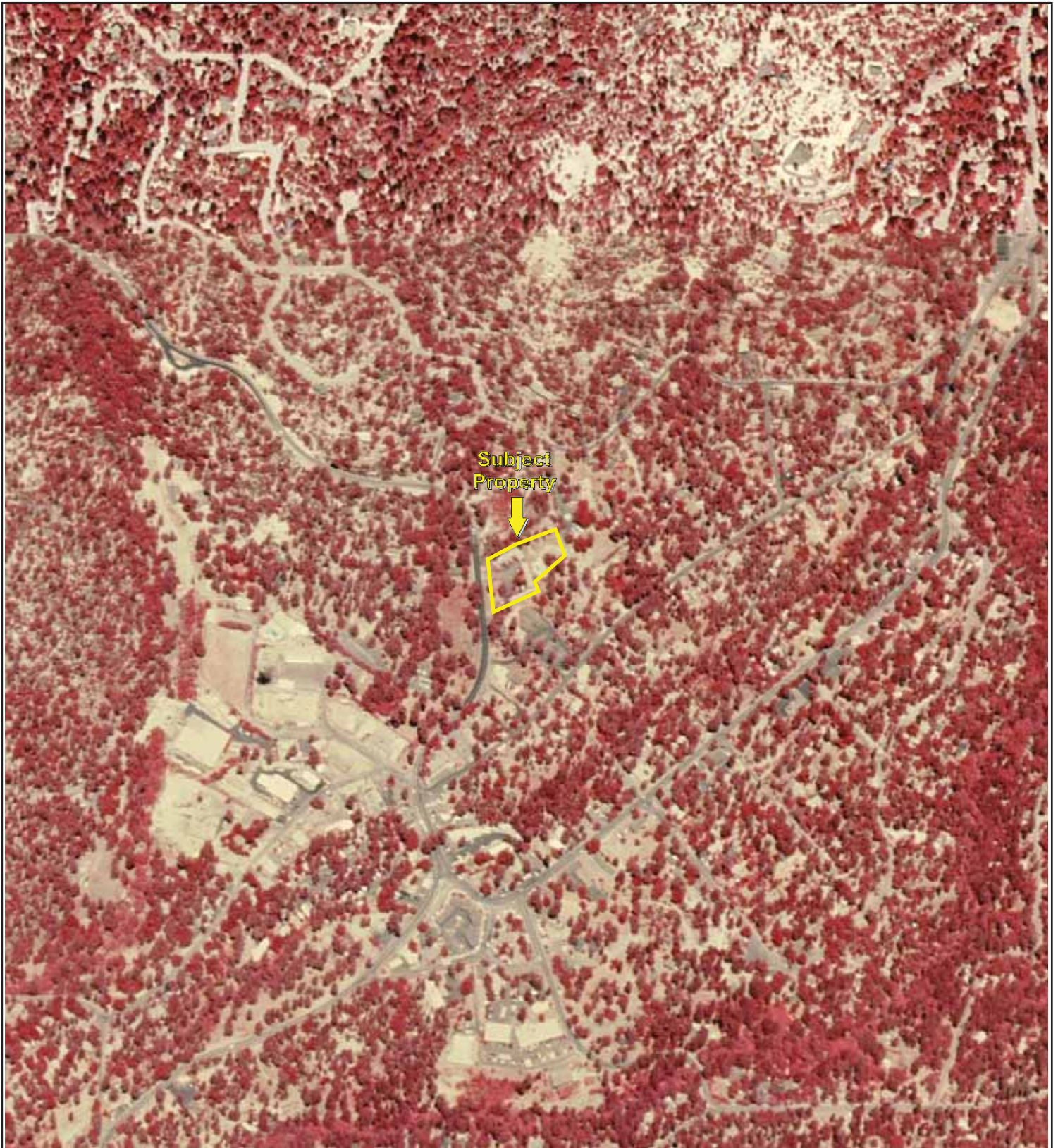
Key: Subject Property 



Key: Subject Property 

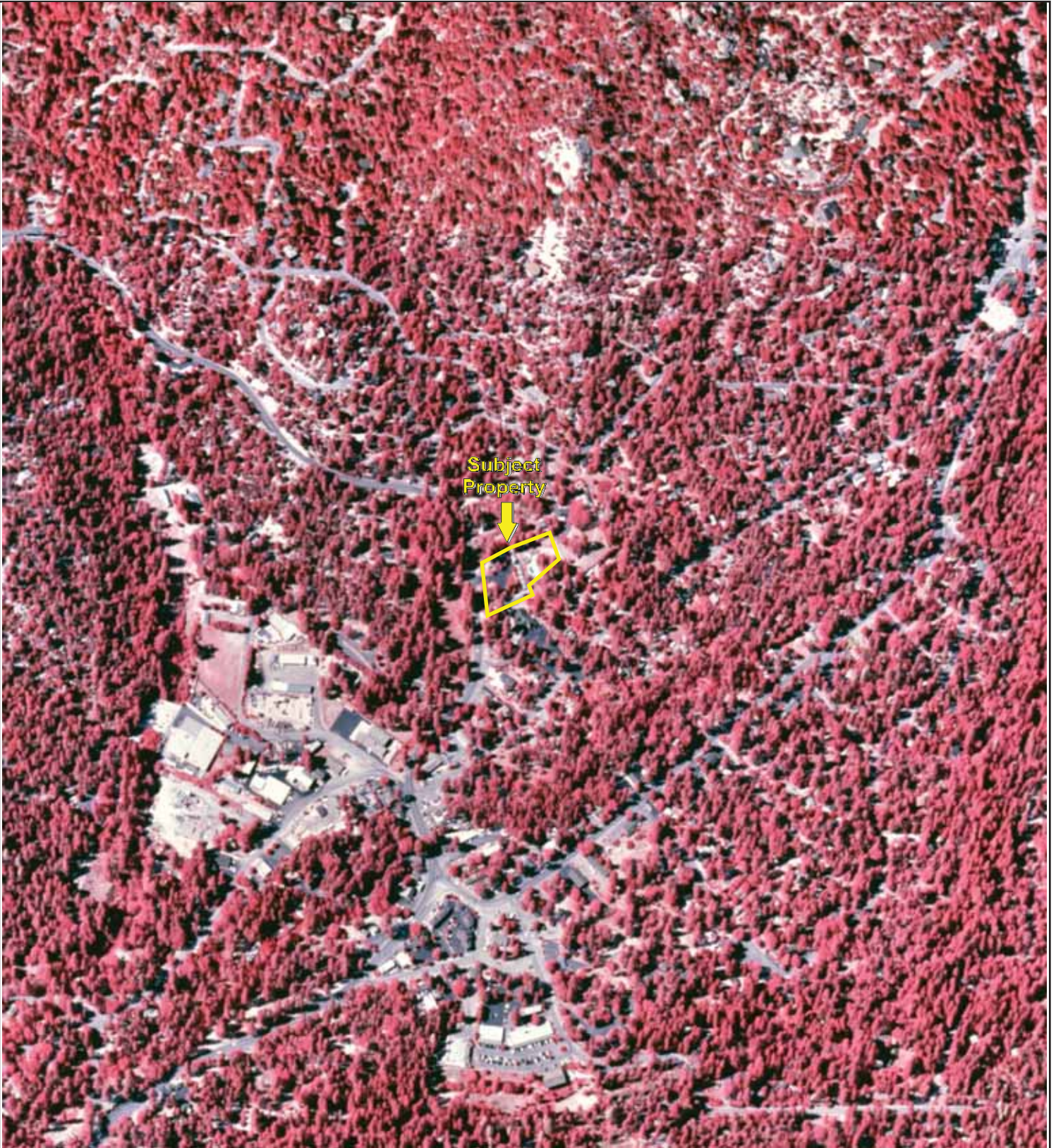


Key: Subject Property 



Key: Subject Property 





500

1000

2000



Key: Subject Property 



Key: Subject Property 



Key: Subject Property 




Key: Subject Property 



500 1000 2000

Key: Subject Property 



Idyllwild Road  
25840 IDYLLWILD RD  
IDYLLWILD, CA 92549

Inquiry Number: 5830468.3

October 15, 2019

## Certified Sanborn® Map Report



6 Armstrong Road, 4th floor  
Shelton, CT 06484  
Toll Free: 800.352.0050  
[www.edrnet.com](http://www.edrnet.com)

# Certified Sanborn® Map Report

10/15/19

**Site Name:**

Idyllwild Road  
25840 IDYLLWILD RD  
IDYLLWILD, CA 92549  
EDR Inquiry # 5830468.3

**Client Name:**

Partner Engineering and Science, Inc.  
2154 Torrance Blvd, Suite 200  
Torrance, CA 90501-0000  
Contact: Sasha Mick



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## Certified Sanborn Results:

**Certification #** C48E-49A0-BAA6

**PO #** 19-262661.1

**Project** 19-262661.1

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Sanborn® Library search results

Certification #: C48E-49A0-BAA6

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

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**Idyllwild Road**

25840 IDYLLWILD RD  
IDYLLWILD, CA 92549

Inquiry Number: 5830468.5  
October 17, 2019

# The EDR-City Directory Image Report



## TABLE OF CONTENTS

### SECTION

Executive Summary

Findings

City Directory Images

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

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## EXECUTIVE SUMMARY

### DESCRIPTION

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

### RECORD SOURCES

EDR's Digital Archive combines historical directory listings from sources such as Cole Information and Dun & Bradstreet. These standard sources of property information complement and enhance each other to provide a more comprehensive report.

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Data by

**infoUSA**<sup>®</sup>

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### RESEARCH SUMMARY

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

<u>Year</u>	<u>Target Street</u>	<u>Cross Street</u>	<u>Source</u>
2014	<input type="checkbox"/>	<input checked="" type="checkbox"/>	EDR Digital Archive
2010	<input type="checkbox"/>	<input checked="" type="checkbox"/>	EDR Digital Archive
2005	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Haines Criss-Cross Directory
2000	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Haines Criss-Cross Directory
1995	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Haines Criss-Cross Directory
1990	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Haines Criss-Cross Directory
1985	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Haines Criss-Cross Directory
1981	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Haines Criss-Cross Directory
1975	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Haines Criss-Cross Directory
1971	<input type="checkbox"/>	<input type="checkbox"/>	Haines Criss-Cross Directory

## FINDINGS

### TARGET PROPERTY STREET

25840 IDYLLWILD RD  
IDYLLWILD, CA 92549

Year

CD Image

Source

### IDYLLWILD RD

2014	-	EDR Digital Archive	Target and Adjoining not listed in Source
2010	-	EDR Digital Archive	Target and Adjoining not listed in Source
2005	pg A3	Haines Criss-Cross Directory	
2000	pg A5	Haines Criss-Cross Directory	
1995	pg A7	Haines Criss-Cross Directory	
1990	pg A9	Haines Criss-Cross Directory	
1985	pg A11	Haines Criss-Cross Directory	
1981	pg A13	Haines Criss-Cross Directory	
1981	pg A14	Haines Criss-Cross Directory	
1975	pg A16	Haines Criss-Cross Directory	
1971	-	Haines Criss-Cross Directory	Street not listed in Source

## FINDINGS

### CROSS STREETS

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

### OAKWOOD ST

2014	pg. A1	EDR Digital Archive
2010	pg. A2	EDR Digital Archive
2005	pg. A4	Haines Criss-Cross Directory
2000	pg. A6	Haines Criss-Cross Directory
1995	pg. A8	Haines Criss-Cross Directory
1990	pg. A10	Haines Criss-Cross Directory
1985	pg. A12	Haines Criss-Cross Directory
1981	pg. A15	Haines Criss-Cross Directory
1975	pg. A17	Haines Criss-Cross Directory
1971	-	Haines Criss-Cross Directory
		Street not listed in Source

## **City Directory Images**

**OAKWOOD ST 2014**

25630 BODNAR, ALICE  
25835 KOTYCK, SAM  
25845 GRISE, DAVID  
25870 LEWIS, ROBERT D  
25955 HAYES, WILLIAM

**OAKWOOD ST 2010**

25630 HUNEKE, WILLIAM  
25661 COLOMBIERE RETREAT CENTER INC  
25845 DAVID GRISE PHOTOGRAPHY

IDYLLWILD RD 2005

IDYLLWILD RD 92549  
IDYLLWILD

25945	XXXX	0000	00	
25955	XXXX	0000	00	
25965	XXXX	0000	00	
26000	★ VILLAGE MARKET		951-659-3169	
26270	● BIXLER Charlotte		00	0
26290	XXXX		00	
26300	● HUNTOON Jim		00	0
26705	● HARRISON Donald J		951-659-2983	
26711	● MAY Penelope		00	+4
26750	XXXX		00	
★	1 BUS	9 RES		1 NEW



## OAKWOOD ST 2005

OAKWOOD ST 92549 IDYLLWILD			
<b>X PINECREST AVE</b>			
25625	●VANDEWALLE Anthony	OO	1
25630	●NILSSON Claes	OO	0
	STEVENSON Linda	951-659-8483	2
25645	STERLING Donald	951-659-5348	1
25660	XXXX	OO	
25661	KENNEDY Esther	951-659-5633	1
	ROTHLUEBBER Francis	951-659-2523	
25665	●MCBEE Clifford	951-659-2221	
25680	●SCHELLY Charles	OO	3
25681	XXXX	OO	
25685	●MCKEE Gary W	951-659-2390	
25761	XXXX	OO	
25830	●BOND William	OO	3
25835	●LUNT George	OO	0
25840	XXXX	OO	
25845	KOCURKO Tim	951-659-5773	
<b>X NORTH CIRCLE DR</b>			
25860	●HAEGER Barbara	OO	0
25870	●LEWIS Robert	OO	3
25875	●TOMPKINS Gary	OO	0
25878	XXXX	OO	
25880	●POPP Clifford G	951-659-3560	
25885	●TEPEL Carl	OO	2
25900	●MCCAUGHIN Patricia	OO	2
25902	●DALY Peter	OO	3
25905	●TURNQUIST Grace	OO	0
25920	XXXX	OO	
<b>X RIVER DR</b>			
25925	●BRAUN Chris	951-659-2706	0
25955	●HAYES William	OO	3
	★ 0 BUS	28 RES	0 NEW

**IDYLLWILD RD 2000**

<b>IDYLLWILD RD 92549</b>			
<b>IDYLLWILD</b>			
25945	XXXX	00	
25955	●MCTIER Bernard	00	+0
25965	XXXX	00	
26000	★ VILLAGE MKT	909-659-3169	
26270	●BIXLER Charlotte	00	+0
26290	●EDWARDS Edward	00	+0
26300	●HUNTOON Jim	00	+0
26345	●CAPPARELLI Peter	00	+0
26375	XXXX	00	
26580	●CALLAHAN Alan	00	+0
26600	●GUARINO Rocco	00	+0
26705	●HARRISON Donald J	909-659-2963	
26711	●MCCLURE Alan	00	+0
26750	XXXX	00	
★ 1 BUS 13 RES 8 NEW			

OAKWOOD ST 2000

OAKWOOD 92549 IDYLLWILD			
WEALTH CODE 2.0			
25625	●SEKHON Sant	OO	+0
25630	FETTY William	909-659-0214	7
	●NILSSON Claes	OO	+0
<b>X</b>	<b>PINECREST AV</b>		
25660	MILLER Robert	909-659-4594	
25661	MURPHY William R	909-659-5633	
	ROTHLUEBBER Francis	909-659-2523	
25665	●MCBEE Clifford	909-659-2221	
25680	●MOREIN Ronald	OO	+0
25681	XXXX	OO	
25685	●MCKEE Gary W	909-659-2390	2
25761	XXXX	OO	
<b>X</b>	<b>NORTH CIRCLE DR</b>		
25830	●BOND William	OO	+0
25835	●LUNT George	OO	+0
25840	XXXX	OO	
25845	KOCURKO Tim	909-659-5773	
	●LEWIS Joyce	OO	+0
25860	●HAEGER Barbara	OO	+0
25870	●LEWIS Kathy	909-659-2923	7
	●LEWIS Robert	909-659-2923	7
25875	●TOMPKINS Gary	OO	+0
25878	XXXX	OO	
25880	●POPP Clifford G	909-659-3560	
25885	●ENGEL Edith	909-659-3271	
25900	●MCCAUGHIN Patricia	OO	+0
25905	●TURNQUIST Grace	OO	+0
25920	●BROWN Donovan	OO	+0
25925	●BRAUN Chris	909-659-2706	+0
<b>X</b>	<b>RIVER DR</b>		
25955	●BOER John	909-659-3842	7
★	0 BUS	28 RES	12 NEW



-

**IDYLLWILD RD 1995**

**IDYLLWILD RD 92549**

**IDYLLWILD**

WEALTH CODE 3.0

25945	XXXX	00
25955	XXXX	00
25965	XXXX	00
26000	★VILLAGE MKT	659-3169
26375	★IDYLLWILD PINES	659-2805
	VANSLYKE Dorothy	659-9940
26705	HARRISON Donald J	659-2963
26750	XXXX	00
★	2 BUS	6 RES
		0 NEW

## OAKWOOD ST 1995

OAKWOOD 92549			
IDYLLWILD			
WEALTH CODE 3.0			
25625	XXXX	00	
25630	XXXX	00	
25660	MILLER Robert	659-4594	
25661	MURPHY Wm R	659-5633	0
	ROTHLUEBBER Francis	659-2523	9
25665	MCBEE Clifford	659-2221	
25680	XXXX	00	
25681	XXXX	00	
25685	MCKEE Gary W	659-2390	2
25761	XXXX	00	
25830	XXXX	00	
25835	XXXX	00	
25840	XXXX	00	
25845	KOCURKO Tim	659-5773	
25870	HAMILTON James R	659-5401	1
25875	MCLAUGHLIN Jack	659-4512	0
	<b>*PRIEFER&amp;MILLS ARCH</b>	<b>659-4446</b>	
25878	XXXX	00	
25880	POPP Clifford G	659-3560	
25885	ENGEL Edith	659-3271	9
25900	GREWE Alfred R	659-2285	
25920	PATRICK Philip	659-5892	+5
25925	XXXX	00	
25955	CATNACH Hal	659-2430	
	CATNACH Marilyn	659-2430	
	GAITHERLEATHERMAN S	659-9954	2
★	1 BUS	25 RES	1 NEW

**IDYLLWILD RD 1990**

**IDYLLWILD RD 92349  
IDYLLWILD**

25945	★ SAN JACINTO WATER	659-5400	6
25950	BROX Gladys A	00	6
25955	BROX Audery	659-5936	7
	HARVEY Clesson H	659-3167	9
	SHERIDAN Cynthia A	00	4
25965	XXXX	00	
26000	★ VILLAGE MKT	659-3169	
26375	★ IDYLLWILD PINES	659-2605	3
	★ IDYLLWILD PINES CMP	659-3083	6
26705	HARRISON Donald J	659-2963	
26750	JUDSON Howard H	00	8
	★ 4 BUS	7 RES	0 NEW

## OAKWOOD ST 1990

OAKWOOD 92349			
IDYLLWILD			
25625	XXXX	00	
25630	XXXX	00	
25660	MILLER Susan C	00	9
25661	MURPHY Wm R	659-4594	1
	ROTHLUEBBER Francis	659-2523	+0
25665	MCBEE Clifford	659-2221	
25680	DROLET C	659-2048	
	DROLET K	659-2048	
	★IMAGINART CMNCTN	659-5905	
25681	XXXX	00	
25685	MCKEE Gary W	659-2390	2
25761	XXXX	00	
25830	BOND William K	659-4268	1
25835	XXXX	00	
25840	XXXX	00	
25845	KOCURKO Tim	659-5773	4
25865	MCKEE Gary W	00	6
25870	SKOMMESA Anthony	659-5561	9
25875	MCLAUGHLIN Jack	659-4512	+0
	★MILLS&PRIEFER	659-4446	5
	★PRIEFER&MILLS ARCH	659-4446	5
25878	XXXX	00	
25880	POPP Clifford G	659-3560	
25885	ENGEL Edith	659-3271	9
25900	GREWE Alfred R	659-2285	
25920	XXXX	00	
25925	XXXX	00	
25955	LEATHERMAN Edw D	659-2430	9
	★ 3 BUS	26 RES	2 NEW

**IDYLLWILD RD 1985**

**IDYLLWILD RD 92349  
IDYLLWILD**

25965	IDYLWLD FIRE DEPT	659-2153	3
26000	VILLAGE MKT	659-3169	6
26375	IDYLLWILD PINES	659-9083	1
	IDYLWLD PINES CAMP	659-2605	3
26500	LEUSCHNER PAUL	659-4267	+5
26560	WOOD HOWARD A	659-3765	4
26705	HARRISON DONALD	659-2963	0
26955	ARREDONDO ED	659-4440	+5
★	4 BUS	4 RES	2 NEW



## OAKWOOD ST 1985

OAKWOOD 92349  
IDYLLWILD

25625	XXXX	00
25630	ADAMS JAS	659-5910 +5
25645	XXXX	00
25660	MILLER ROBERT	659-4594 1
25661	ZAHM M L	659-2523 1
25665	MCBEE CLIFFORD	659-2221
25680	DROLET K	659-2048 +5
	IMAGINART DESIGNS	659-5905 +5
	IMAGINART PRESS	659-5905 +5
25681	XXXX	00
25685	MCKEE GARY W	659-2390 2
25761	XXXX	00
25830	BOND WILLIAM K	659-4268 1
25835	XXXX	00
25840	XXXX	00
25845	KOCURKO TIM	659-5773 4
25870	XXXX	00
25875	MILLS&PRIEFER	659-4446 +5
	PRIEFER&MILLS ARCH	659-4446 +5
25878	HIGH CNTRY RECREATN	659-4200 +5
25880	POPP CLIFFORD G	659-3560
25885	GOLEC TIMOTHY R	659-5973 +5
25900	GREWE ALFRED R	659-2285
25920	XXXX	00
25925	XXXX	00
25955	JAYNE DONALD E	659-5438 4
	★ 5 BUS	21 RES
		8 NEW



-

IDYLLWILD RD 1981

IDYLLWILD DR 92349  
IDYLLWILD

25860	XXXX	00
25880	XXXX	00
25945	XXXX	00
25955	LINDSAY A U MRS	659-2497 9
	MCINTEE CARL	659-3402 0
	MILLER RICHARD	659-4967 +1
	RAMSEY HARRY E	659-4784 0
25965	IDYLLWILD FIRE	659-2151+1
26000	VILLAGE MKT	659-3169 6
26115	LEISURE TIME CTGS	659-2114 8
	REAL ESTATE STORE	659-2118 9
26128	XXXX	00
26200	XXXX	00
26270	XXXX	00
26341	XXXX	00
26363	THOMAS ALBERT L	659-2373 +1

**IDYLLWILD RD 1981**

Target Street	Cross Street	Source
IDYLLWILD DR		9249 CONT
26370	XXXX	00
26374	CHAPEL IN THE PINES	659-379
	TOTTEN TOBY REV	659-379
26375	IDYLLWILD PINES	659-905
	IDYLLWILD PINES CMP	659-260
26500	XXXX	00
26540	XXXX	00
26560	WOODS TV&HI FI SHOP	659-3715
26600	IDYLLWILD REALTY	659-3231
26705	HARRISON DONALD J	659-2963
26720	CARLSTROEM C	659-2950
26770	BURGESS PHILLIP DDS	659-2158
	SCERRA CHESTER OD	659-4565
	WILLIAMSON W V DDS	659-2158
26805	XXXX	00
26900	XXXX	00
26905	XXXX	00
26955	HOFFMAN RALPH E	659-4440
	★ 12 BUS 22 RES 5 NEW	

## OAKWOOD ST 1981

OAKWOOD 92349		IDYLLWILD	
25625	XXXX		00
25645	XXXX		00
25660	MILLER ROBERT		659-4594 +1
25661	ZAHM M L		659-2523 +1
25665	MCBEE CLIFFORD		659-2221 4
25680	XXXX		00
25681	XXXX		00
25685	MCCARTHY MICHAEL		659-4465 +1
25761	XXXX		00
25830	BOND WILLIAM K		659-4268 +1
25835	LUNT WILBUR		659-3516 +1
25840	XXXX		00
25870	KIDDER CLARA M		659-3512 7
25875	<b>MILLS&amp;PRIEFER ARCHT</b>		<b>659-4446 0</b>
25880	POPP CLIFFORD G		659-3560
25885	ERWIN ROBT M		659-2558
25900	GREWE ALFRED R		659-2285 5
25920	XXXX		00
25925	ALLERT RICHARD N		659-3618 +1
25955	MARKLE PARKER		659-3885 9
	★ 1 BUS	19 RES	6 NEW

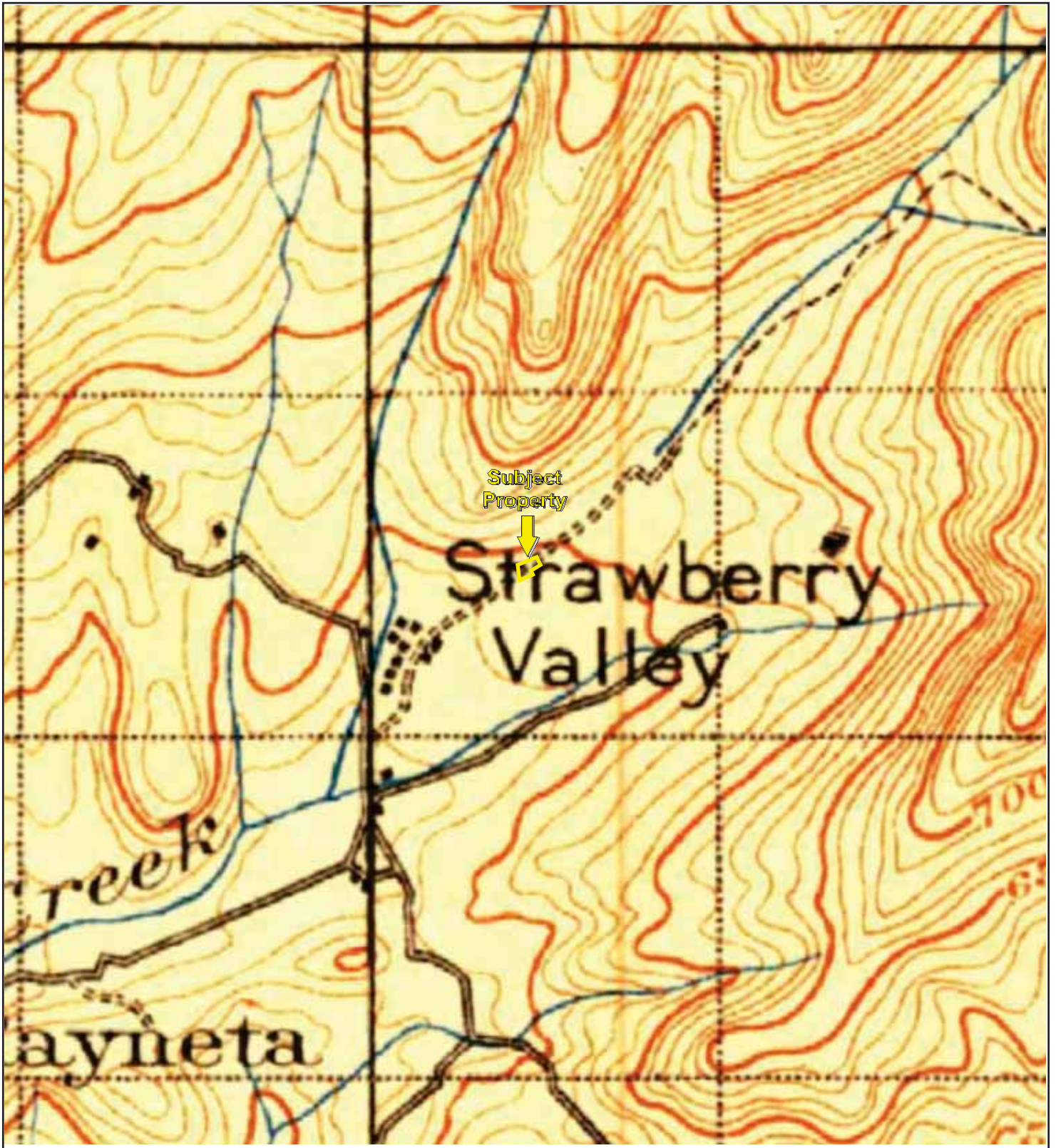
## IDYLLWILD RD 1975

IDYLLWILD DR 92349 IDYLLWILD

25005 XXXX 00  
 25945\*IDYLLWLD CO WTR DST659-2695  
 25955 SIMMONS CHESTER E 659-2665  
 25985\*CLOTHES HORSE 659-2937  
 26128\*IDYLLWLD SHELL 659-3437  
 26200 XXXX 00  
 26270 XXXX 00  
 26341\*RIKMAN REALTY 659-2251  
 26370 XXXX 00  
 26375\*IDYLLWILD PINES CMP659-9083  
 \*IDYLLWLD PINES CAMP659-2605  
 26500 XXXX 00  
 26540\*IDYLLWILD FRAME SHP659-3715  
 \*WOODS TV SHOP 659-3715  
 26600\*CLARK MORWOOD RLEST659-3511  
 \*IDYLLWILD REALTY 659-3237  
 \*MORWOODCLARK RL EST659-3511  
 \*PLANT GALLERY 659-3751  
 26805 XXXX 00  
 26900 XXXX 00  
 26905 XXXX 00  
 NO \*RIVERSIDE CNTY PRKS659-265  
 \* 13 BUS 9 RES 3 NE

## OAKWOOD ST 1975

OAKWOOD 92349 IDYLLWILD		
25161	XXXX	00
25625	WALLACE DELLA J	659-296
25645	MILLARD S	659-258
25660	MILLER ROBT S	659-238
	*PINE BRANCH MNTN NCE	659-238
25665	MCBEE CLIFFORD	659-222
25680	STEWART AMBROSE	659-370
25840	SETZER O D	659-225
25845	BUTTERWORTH BETH	659-383
	LOCKHEED BETH	659-383
25870	XXXX	00
25880	POPP CLIFFORD G	659-356
25885	ERWIN ROBT M	659-255
25900	GREWE ALFRED R	659-228
25920	NEELEY H G	659-290
25955	BRANNOCK THELMA	659-227
	BRANNOCK WM	659-227
	* 1 BUS	16 RES
		7 NEI

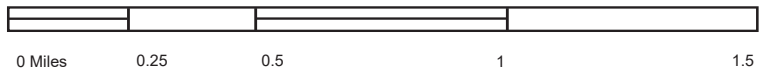


Subject Property

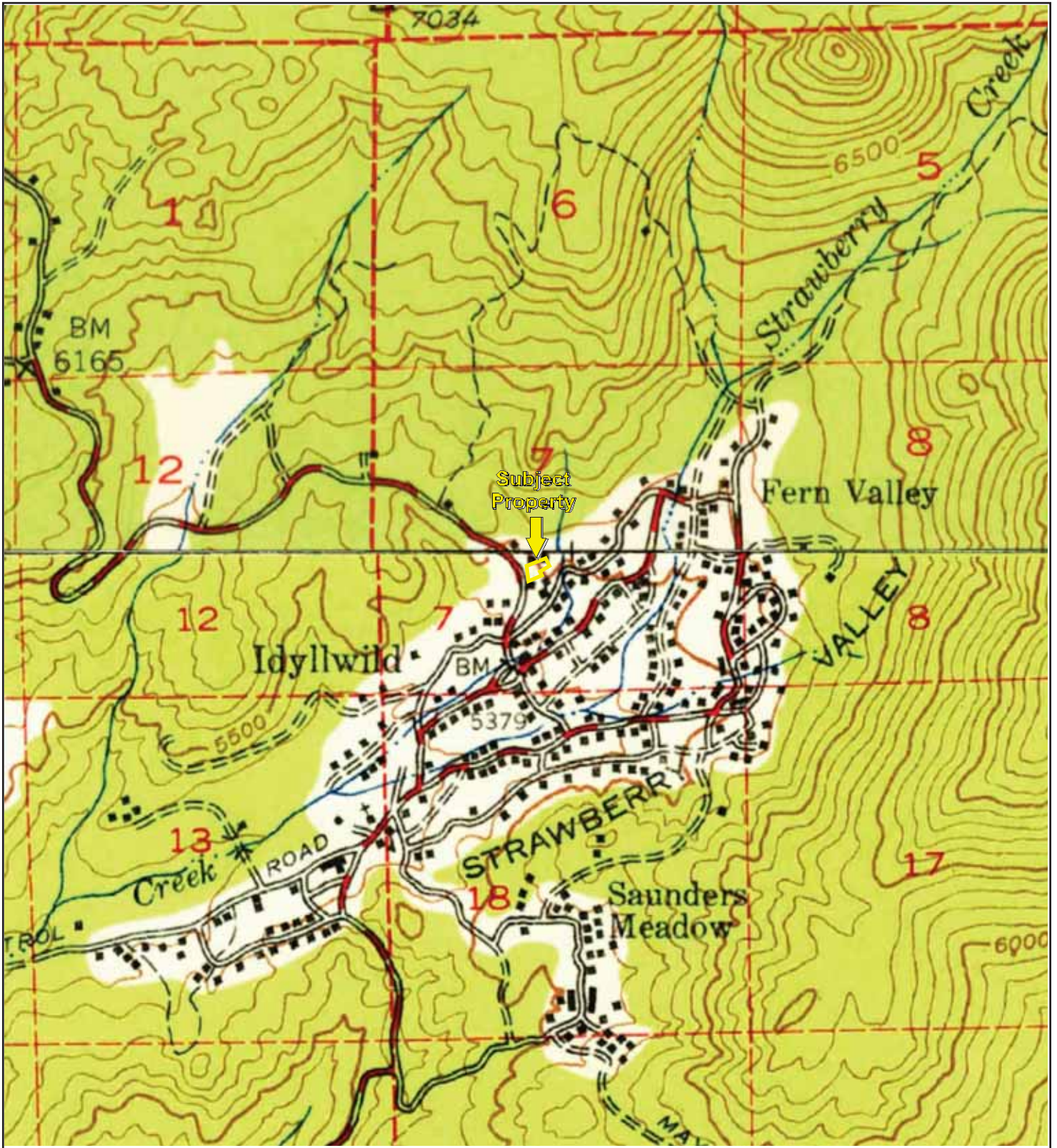
Strawberry Valley

Creek  
ayneta

TP, San Jacinto, 1901, 30-minute



Key: Subject Property 

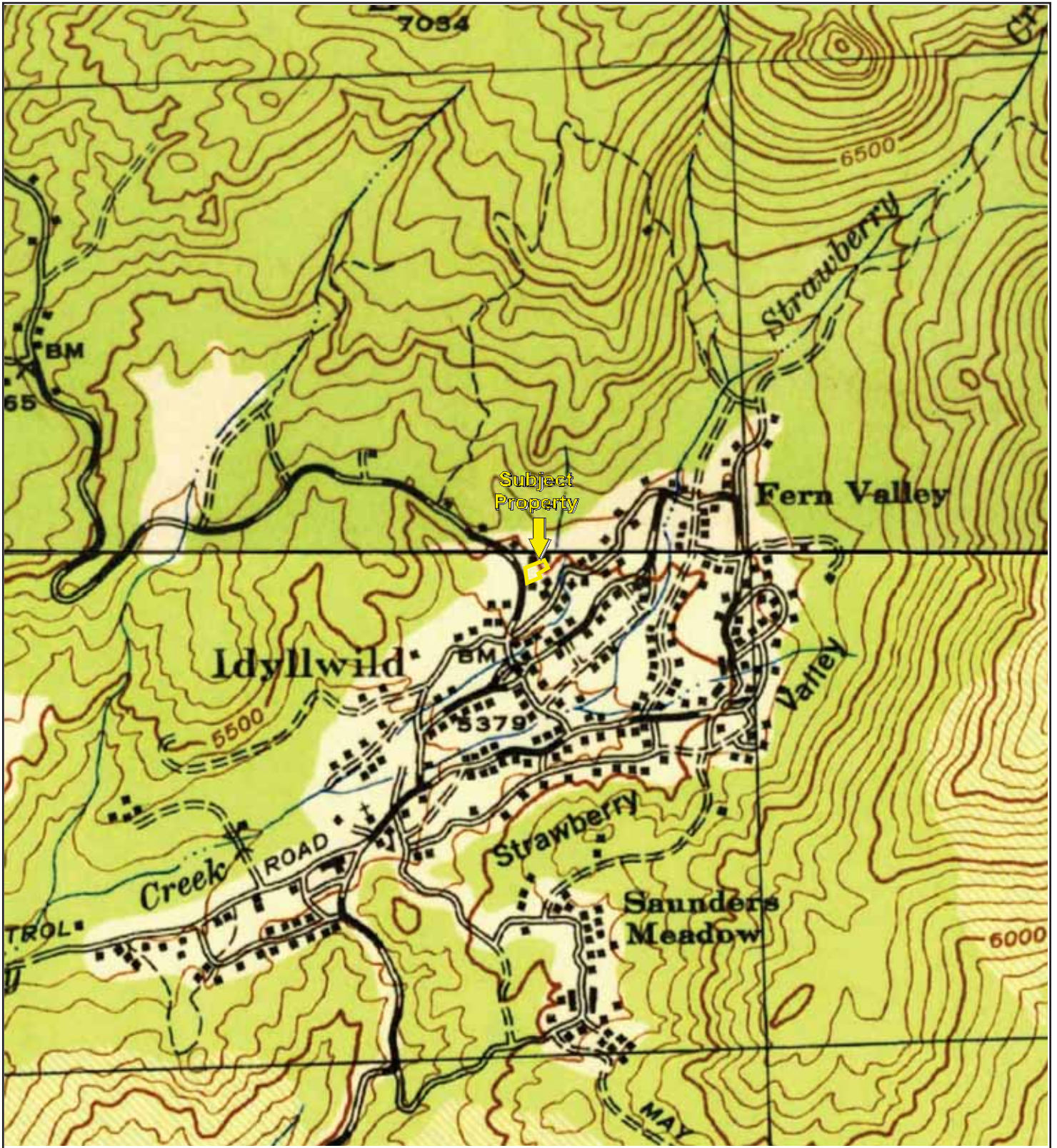


TP, Hemet Reservoir, 1940, 15-minute  
NE, Palm Springs, 1940, 15-minute



Key: Subject Property 





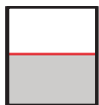
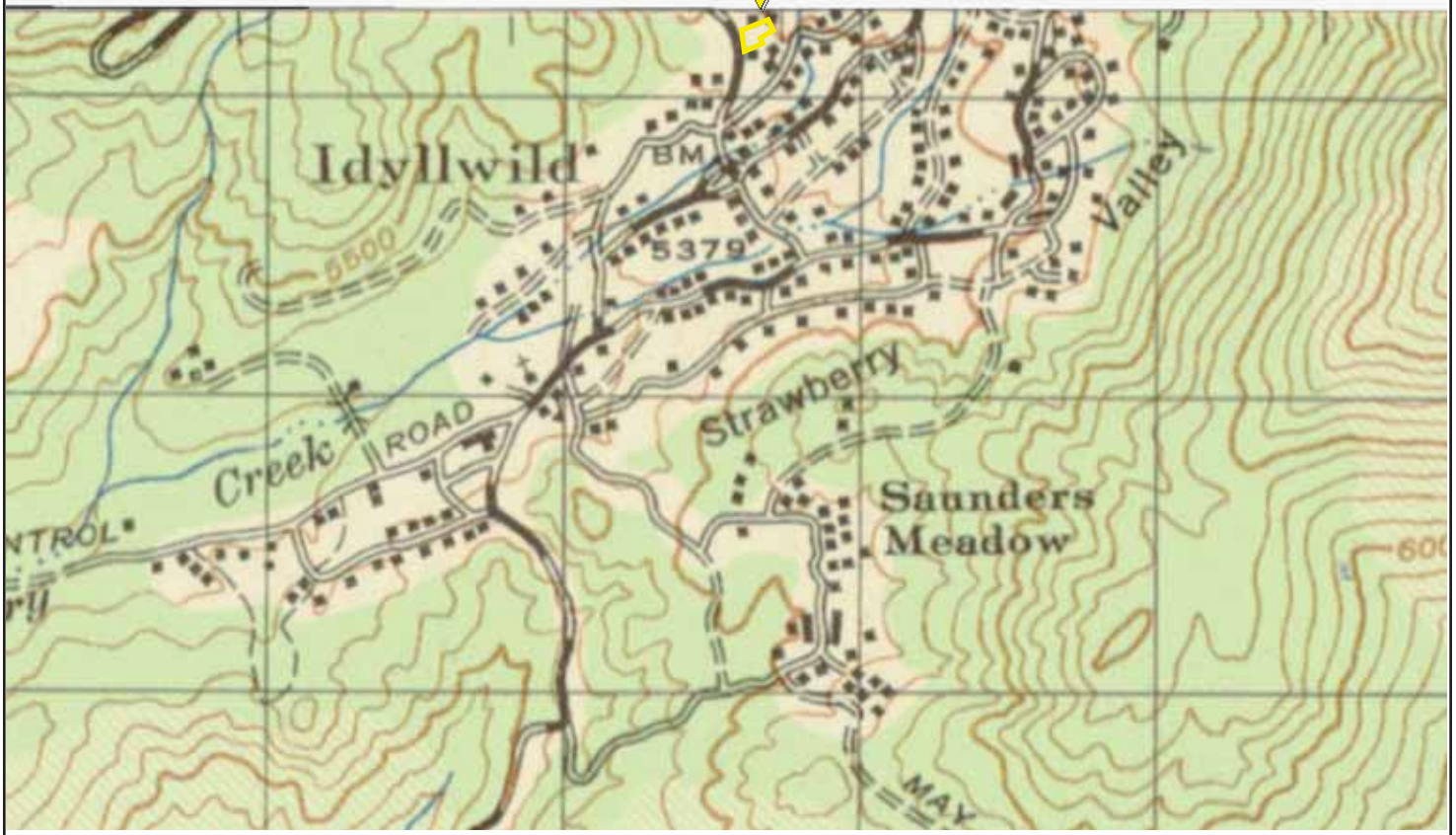
TP, Hemet Reservoir, 1942, 15-minute  
NE, Palm Springs, 1944, 15-minute



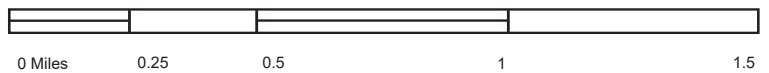
Key: Subject Property 



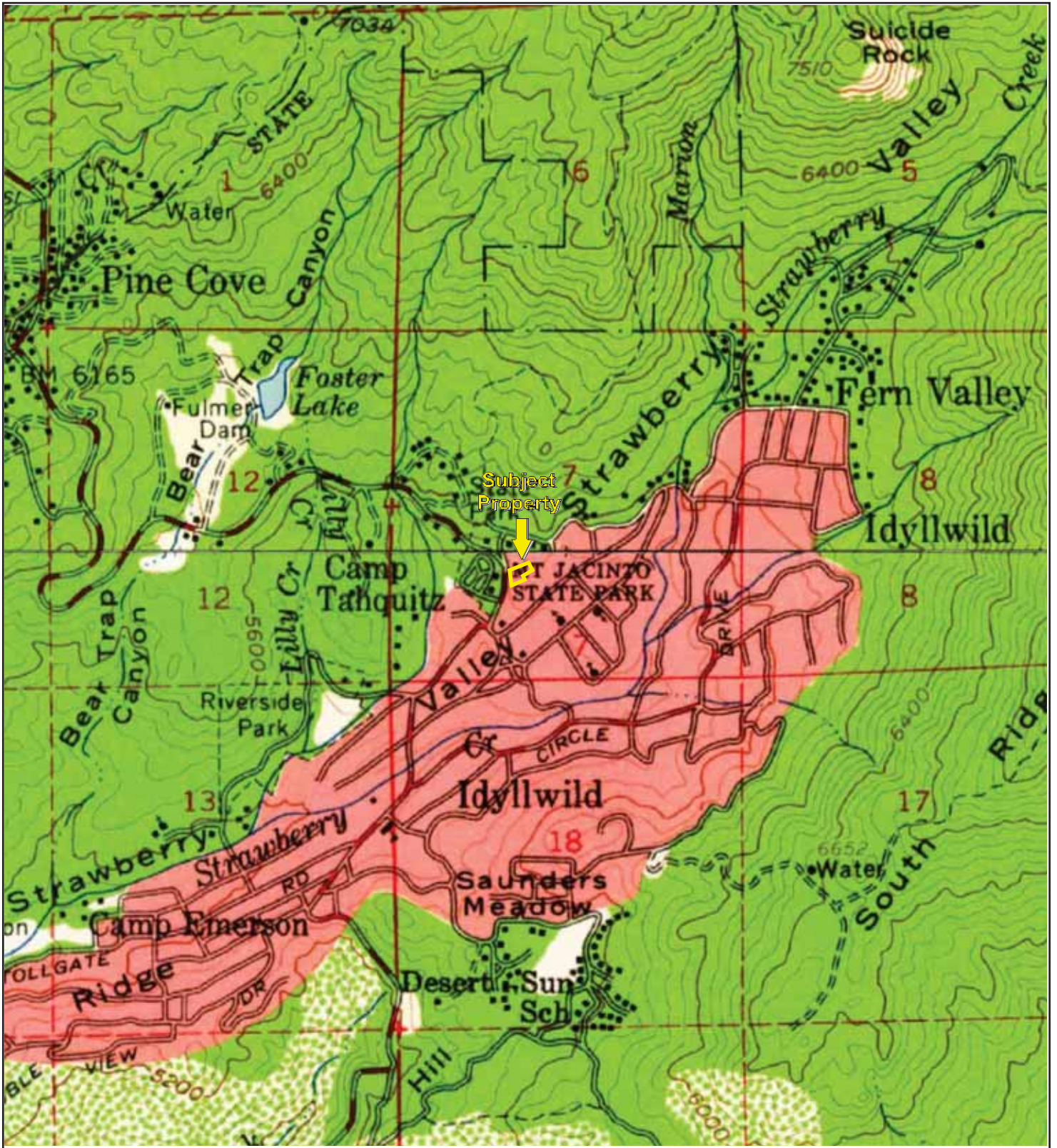
Subject  
Property



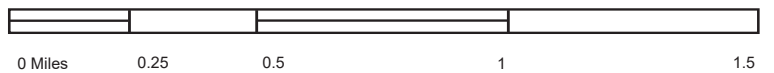
TP, IDYLLWILD, 1947, 15-minute



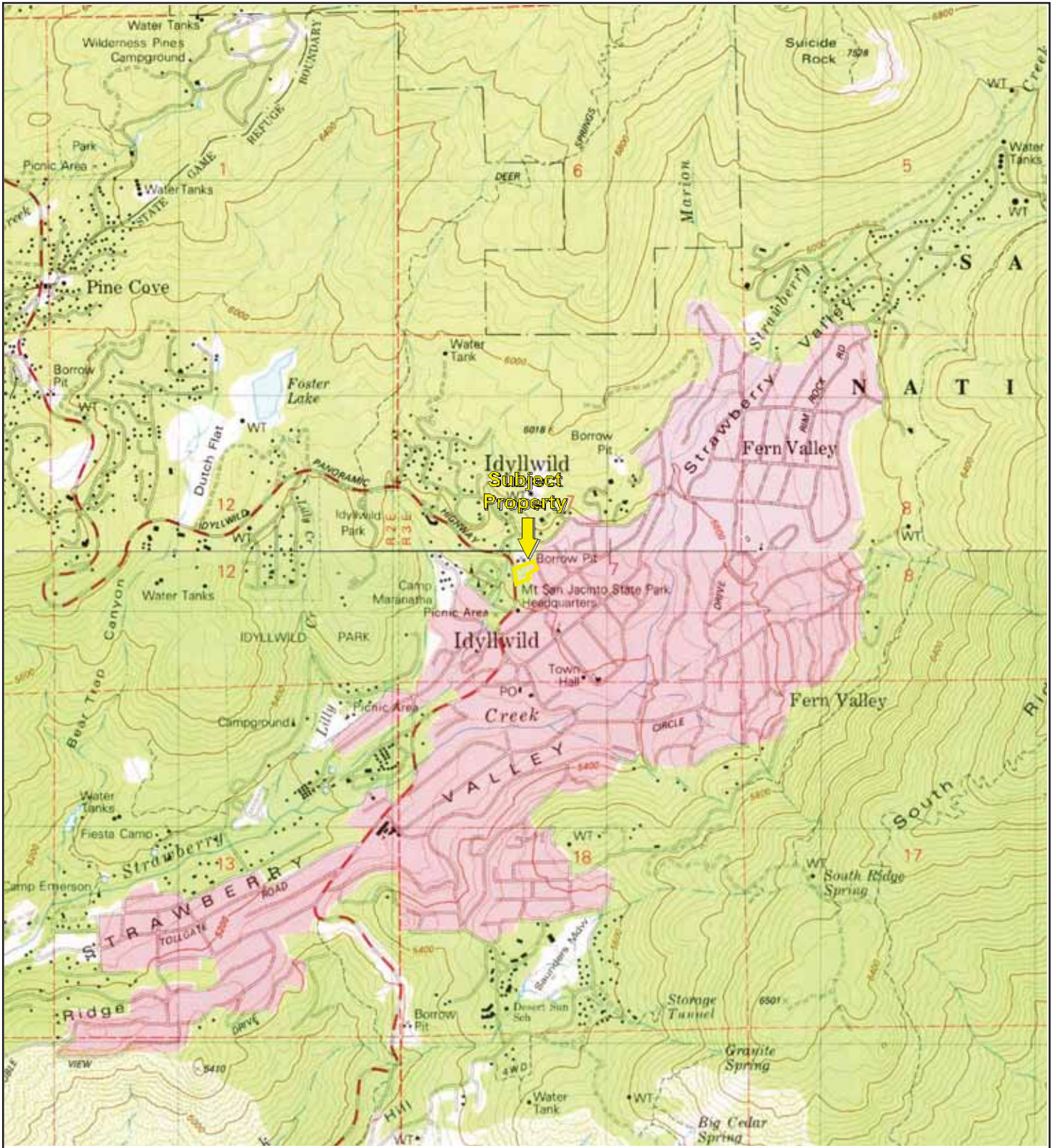
Key: Subject Property



TP, Idyllwild, 1959, 15-minute  
 NE, Palm Springs, 1957, 15-minute



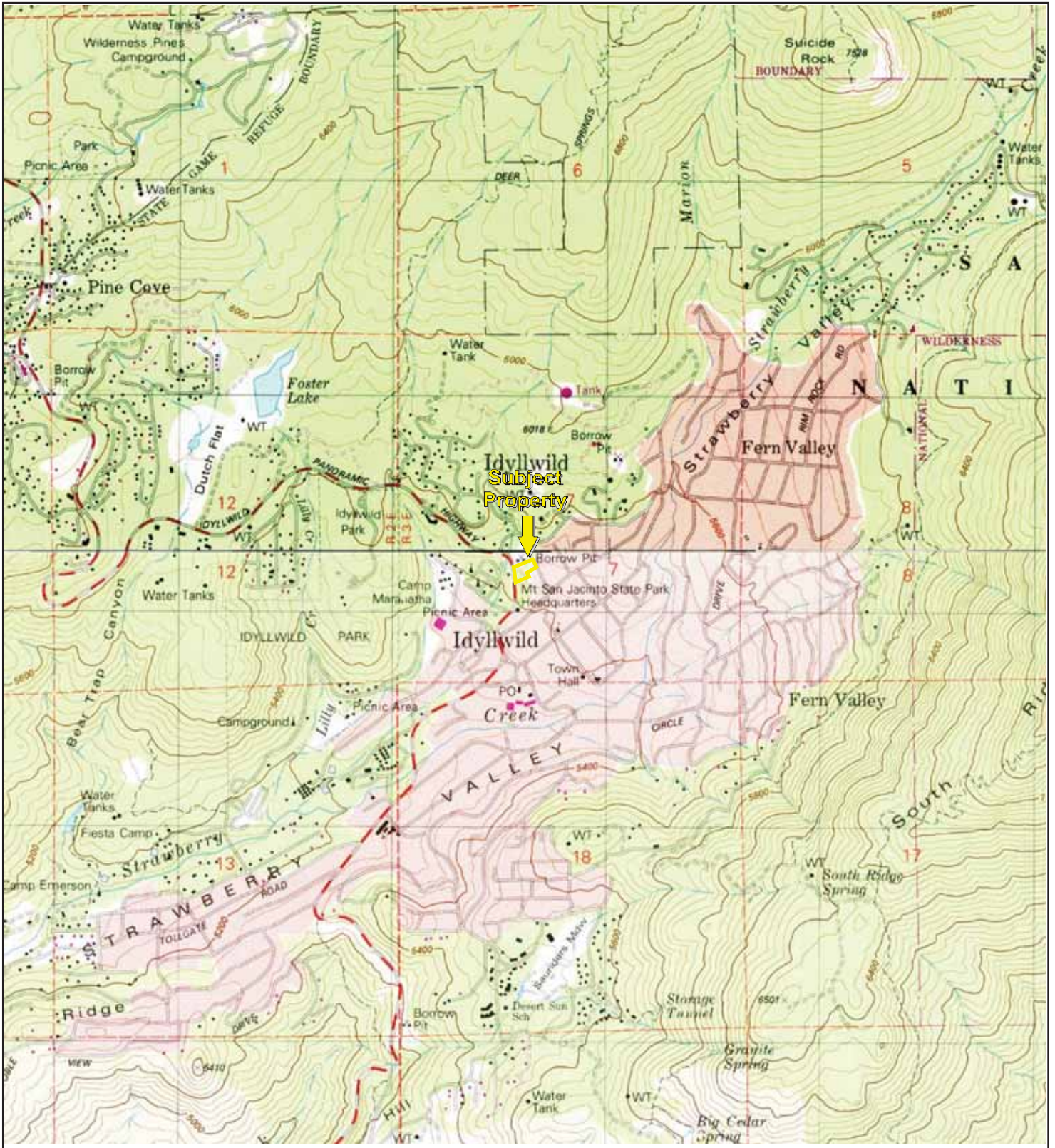
Key: Subject Property 



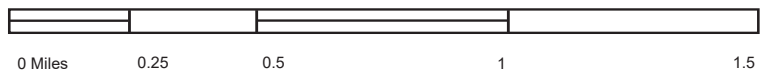
TP, Idyllwild, 1981, 7.5-minute  
N, San Jacinto Peak, 1981, 7.5-minute



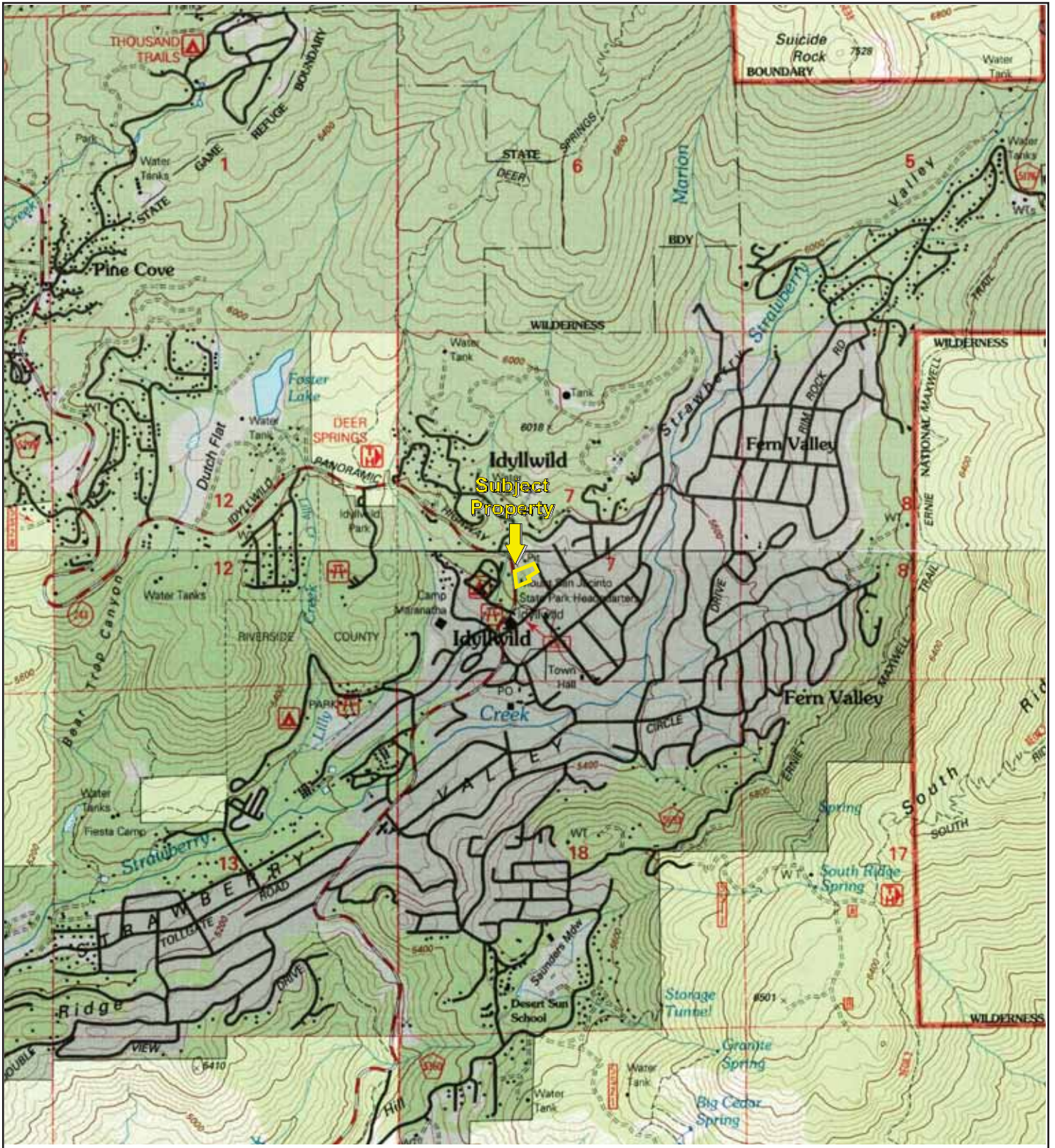
Key: Subject Property



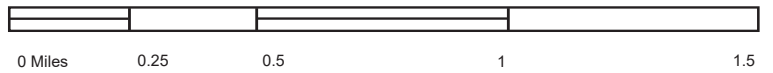
TP, Idyllwild, 1988, 7.5-minute  
N, San Jacinto Peak, 1988, 7.5-minute



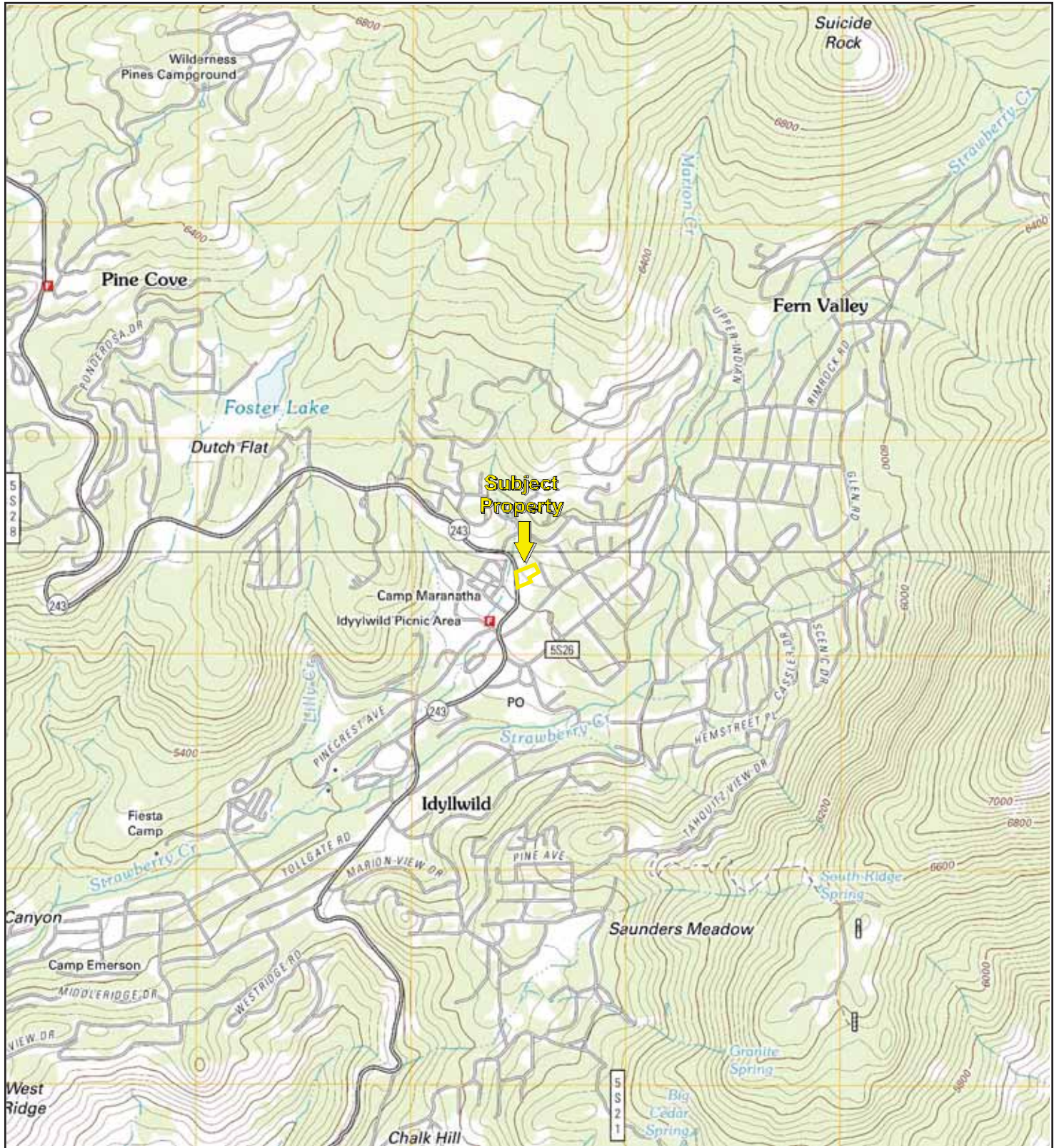
Key: Subject Property



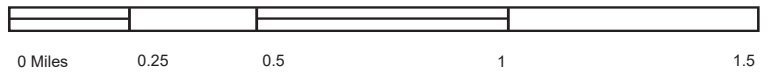
TP, Idyllwild, 1996, 7.5-minute  
N, San Jacinto Peak, 1996, 7.5-minute



Key: Subject Property



TP, Idyllwild, 2012, 7.5-minute  
N, San Jacinto Peak, 2012, 7.5-minute



Key: Subject Property



# Riverside County Parcel Report

APN(s) 563-250-028

## MAPS/IMAGES



### PARCEL

<b>APN</b>	<a href="#">563-250-028-3</a>
<b>Previous APN</b>	563-250-028 came from 563-250-000
<b>Owners</b>	Not Available Online
<b>Address</b>	563-250-028 25840 IDYLLWILD RD IDYLLWILD CA 92549
<b>Mailing Address</b>	563-250-028 P O BOX 243 IDYLLWILD CA 92549
<b>Legal Description</b>	563-250-028 Recorded Book/Page: <a href="#">MB 8/36</a> Subdivision Name: IDYLLWILD MT PARK CO SUB 3 Lot/Parcel: 36 Block: Tract Number: 0
<b>Lot Size</b>	563-250-028 1.45

<b>Property Characteristics</b>	563-250-028 Year Constructed: 1978 Baths: 0.00 Bedrooms: 0 Construction Type: SPECIAL Garage Type: CONSTRUCTION Property Area (sq ft): 0 Roof Type: UNKNOWN Stories: Pool: NO Central Cool: YES Central Heat: YES
<b>Supervisory District</b>	CHUCK WASHINGTON, DISTRICT 3
<b>City Boundary</b>	NOT IN A CITY
<b>Land Use Designations</b>	MDR
<b>Zoning Classifications (ORD. 348)</b>	ZONE: R-3A, CZ Number: 4595

## PLUS PERMITS & CASES



**Administrative Cases**

Case	Case Description	Status
N/A	N/A	N/A

**Building and Safety Cases**

Case	Case Description	Status
BDE120126	DEMO COMMERCIAL POOL	FINAL
BEL980560	POOL LIGHT/CIRCUIT INSPECTION	FINAL
BRI160402	REQUEST FOR RECORDS	PAID
BZ289593	18 UNIT METER	FINAL
BZ301603	TEMPORARY CONST SERVICE	FINAL
BZ302540	18 UNIT MOTEL	CANCELED

**Code Cases**

Case	Case Description	Status
CV1103276		Closed - Verified Non-Billable
CV1601811		Closed-Verified Billable

**Fire Cases**

Case	Case Description	Status
N/A	N/A	N/A

**Planning Cases**

Case	Case Description	Status
PP02752S1	ADD TWO (2) 700 SF GREENHOUSES TO EXIST MOTEL	ABANDONED

**Survey Cases**

Case	Case Description	Status
N/A	N/A	N/A

**Transportation Cases**

Case	Case Description	Status
BIC091185	LIC: 014853	COMPLETED
BIC120327	LIC: 032606	COMPLETED
BIC140280	LIC: 040960	COMPLETED

**DEPARTMENT of ENVIRONMENTAL HEALTH PERMITS****Septic Permits**

Record Id	Application Date	Plan Check Approved Date	Final Inspection Date	Approved Date
N/A	N/A	N/A	N/A	N/A

**Well Water Permits**

Record Id	PE	Permit Paid Date	Permit Approved Date	Well Finaled Date
N/A	N/A	N/A	N/A	N/A

**\* DISCLAIMER \***

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Public Records Act Request Form

To expedite your request and to eliminate opportunities for error, please fill out this form with as much detail as possible and identify specifically the records you are requesting. Requests should reasonably describe identifiable records that are prepared, owned, used or retained by Idyllwild Fire Protection District. Specific names and dates of documents as well as the type (report, ordinance, resolution or agreement) are useful in insuring that the request is fulfilled. Staff is available to assist you in identifying the records, based on your description, of documents controlled by the District. IFPD is not required to create a new record or list from an existing record.

Please note that if you are requesting the opportunity to inspect records stored at this office, IFPD must be given time to locate and review documents that are responsive to your request in order to comply with the provisions of the Public Records Act. You will, therefore, be requested to make an appointment to return at a later date to view the documents.

You will be charged the direct cost of duplication for any documents requested. Documents will not be copied until payment has been received.

REQUESTER INFORMATION:

Name: CHONG LY Date: 10-30-19  
Company: Partner Engineering and Science  
Mailing Address: 361 Corporate Terrace Circle  
City: Corona State, Zip: CA 92879  
Phone Number: 951-894-8195 Fax Number: 951-638-9034  
Email Address: CLY@PartnerESI.com  
Preferred method of contact in the event of question: email

Requested Records:

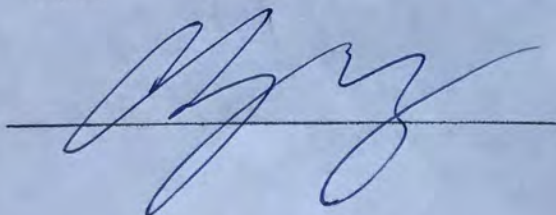
Any and all records regarding use, storage, or release of hazardous materials/substances; former and current underground and aboveground tanks; current or historical industrial wastewater discharge, clarifiers, grease traps, interceptors, for:  
25840 Idyllwild Rd, Idyllwild, CA  
25840 Highway 243, Idyllwild, CA

Time Period covering documents requested:

1970 - current/present

I request to inspect the requested records, where applicable, and do not want copies produced at this time.

I would like copies of the requested records and I understand that I will be contacted with a count of the number of pages to be copied and their cost prior to copying. I understand and agree that I will be required to make payment for the copying costs prior to the documents requested being Copied.



Signature of Requester

## Mick, Sasha

---

**From:** rachel@idyllwildfire.com  
**Sent:** Thursday, October 31, 2019 12:55 PM  
**To:** Ly, Chong  
**Cc:** marklamont@idyllwildfire.com  
**Subject:** RE: Public Records Act Request Form 10.30.2019

Hi Chong,

I received your Public Records Request. The Idyllwild Fire Protection District does not own property at the address requested (25840 Highway 243 or 25840 Idyllwild Rd). Please let me know if you have any questions.

Thank you,

Rachel Teeguarden  
Administrative Assistant

Idyllwild Fire Protection District  
P.O. Box 656  
54160 Maranatha Dr.  
Idyllwild, CA 92549  
951-659-2153  
951-659-5571 (Fax)



---

**From:** Ly, Chong <cly@partneresi.com>  
**Sent:** Wednesday, October 30, 2019 5:12 PM  
**To:** rachel@idyllwildfire.com  
**Subject:** Public Records Act Request Form 10.30.2019

Hi Ms. Teeguarden,

Please see the attached Public Records Act Request Form.

Thank you.

Chong Ly  
Project Manager

---

**PARTNER ENGINEERING AND SCIENCE, INC.**

361 Corporate Terrace Circle, Corona, California 92879  
T: 951-894-8195 | F: 951-638-9034 | C: 951-432-9272

More Than Just Assessments. *Solutions* – For a complete list of services, [click here](#)

## **APPENDIX C: REGULATORY DATABASE REPORT**

---

**Idyllwild Road**

25840 IDYLLWILD RD  
IDYLLWILD, CA 92549

Inquiry Number: 5830468.2s  
October 15, 2019

**The EDR Radius Map™ Report with GeoCheck®**



6 Armstrong Road, 4th floor  
Shelton, CT 06484  
Toll Free: 800.352.0050  
[www.edrnet.com](http://www.edrnet.com)

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

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## EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-13), the ASTM Standard Practice for Environmental Site Assessments for Forestland or Rural Property (E 2247-16), the ASTM Standard Practice for Limited Environmental Due Diligence: Transaction Screen Process (E 1528-14) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

### TARGET PROPERTY INFORMATION

#### ADDRESS

25840 IDYLLWILD RD  
IDYLLWILD, CA 92549

#### COORDINATES

Latitude (North): 33.7490040 - 33° 44' 56.41"  
Longitude (West): 116.7134260 - 116° 42' 48.33"  
Universal Transverse Mercator: Zone 11  
UTM X (Meters): 526542.7  
UTM Y (Meters): 3734169.8  
Elevation: 5449 ft. above sea level

### USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map: 5629991 IDYLLWILD, CA  
Version Date: 2012  
  
North Map: 5629995 SAN JACINTO PEAK, CA  
Version Date: 2012

### AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from: 20140529  
Source: USDA

MAPPED SITES SUMMARY

Target Property Address:  
 25840 IDYLLWILD RD  
 IDYLLWILD, CA 92549

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
<a href="#">A1</a>	IDYLLWILD ROAD YARD	25-780 JOHNSON ROAD	SWF/LF, AST, HIST UST, CERS	Lower	693, 0.131, WSW
<a href="#">A2</a>	COUNTY OF RIVERSIDE	25780 JOHNSON RD	AST	Lower	778, 0.147, SW
<a href="#">A3</a>	RIVERSIDE COUNTY TRA	25780 JOHNSON RD	RCRA NonGen / NLR	Lower	778, 0.147, SW
<a href="#">A4</a>	RIVERSIDE COUNTY DEP	25780 JOHNSON RD	RCRA NonGen / NLR	Lower	778, 0.147, SW
<a href="#">A5</a>	ROAD DEPT OF RIVERSI	25780 JOHNSON RD	RCRA NonGen / NLR, FINDS, ECHO	Lower	778, 0.147, SW
<a href="#">A6</a>	RIVERSIDE COUNTY DEP	25780 JOHNSON RD	CERS HAZ WASTE, CERS TANKS, HAZNET, CERS	Lower	778, 0.147, SW
<a href="#">7</a>	CALIFORNIA STATE PAR	25905 HIGHWAY 243	RCRA NonGen / NLR	Lower	805, 0.152, SSW
<a href="#">B8</a>	EGANS DRY CLEANING &	54240 PINECREST	DRYCLEANERS	Lower	844, 0.160, SW
<a href="#">B9</a>	FOREST LUMBER	54200 PINECREST AVE	HIST UST	Lower	1128, 0.214, SW
<a href="#">C10</a>	SOUTH BAY CABLE CORP	54125 MARANATHA DR	CERS HAZ WASTE, HAZNET, CERS	Lower	1158, 0.219, WSW
<a href="#">C11</a>	CONSOLIDATED PRODUCT	54125 MARANATHA DR	RCRA-SQG	Lower	1158, 0.219, WSW
<a href="#">D12</a>	IDYLLWILD AUTO	54170 PINECREST	RCRA NonGen / NLR	Lower	1235, 0.234, SW
<a href="#">D13</a>	IDYLLWILD AUTOMOTIVE	54170 PINE CREST AVE	HAULERS, CERS HAZ WASTE	Lower	1235, 0.234, SW
<a href="#">14</a>	VILLAGE FOOD AND FUE	26128 HWY 243	LUST, HIST CORTESE, CERS	Lower	1476, 0.280, SSW
<a href="#">15</a>	IDYLLWILD CHEVRON #2	25015 HIGHWAY 243	LUST, CPS-SLIC, Cortese, HIST CORTESE, Notify 65	Higher	3292, 0.623, WNW



# 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-VSQG..... RCRA - Very Small Quantity Generators (Formerly Conditionally Exempt Small Quantity Generators)

### ***Federal institutional controls / engineering controls registries***

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

## 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 leaking storage tank lists***

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

CPS-SLIC..... Statewide SLIC Cases

### ***State and tribal registered storage tank lists***

FEMA UST..... Underground Storage Tank Listing

UST..... Active UST 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

ODI..... Open Dump Inventory

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

IHS OPEN DUMPS..... Open Dumps on Indian Land

### ***Local Lists of Hazardous waste / Contaminated Sites***

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

HIST Cal-Sites..... Historical Calsites Database

## EXECUTIVE SUMMARY

SCH.....	School Property Evaluation Program
CDL.....	Clandestine Drug Labs
Toxic Pits.....	Toxic Pits Cleanup Act Sites
US CDL.....	National Clandestine Laboratory Register
PFAS.....	PFAS Contamination Site Location Listing

### **Local Lists of Registered Storage Tanks**

SWEEPS UST.....	SWEEPS UST Listing
CA FID UST.....	Facility Inventory Database

### **Local Land Records**

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

### **Records of Emergency Release Reports**

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

### **Other Ascertainable Records**

FUDS.....	Formerly Used Defense Sites
DOD.....	Department of Defense Sites
SCRD DRYCLEANERS.....	State Coalition for Remediation of Drycleaners Listing
US FIN ASSUR.....	Financial Assurance Information
EPA WATCH LIST.....	EPA WATCH LIST
2020 COR ACTION.....	2020 Corrective Action Program List
TSCA.....	Toxic Substances Control Act
TRIS.....	Toxic Chemical Release Inventory System
SSTS.....	Section 7 Tracking Systems
ROD.....	Records Of Decision
RMP.....	Risk Management Plans
RAATS.....	RCRA Administrative Action Tracking System
PRP.....	Potentially Responsible Parties
PADS.....	PCB Activity Database System
ICIS.....	Integrated Compliance Information System
FTTS.....	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
MLTS.....	Material Licensing Tracking System
COAL ASH DOE.....	Steam-Electric Plant Operation Data
COAL ASH EPA.....	Coal Combustion Residues Surface Impoundments List
PCB TRANSFORMER.....	PCB Transformer Registration Database
RADINFO.....	Radiation Information Database
HIST FTTS.....	FIFRA/TSCA Tracking System Administrative Case Listing
DOT OPS.....	Incident and Accident Data
CONSENT.....	Superfund (CERCLA) Consent Decrees
INDIAN RESERV.....	Indian Reservations
FUSRAP.....	Formerly Utilized Sites Remedial Action Program
UMTRA.....	Uranium Mill Tailings Sites

## EXECUTIVE SUMMARY

LEAD SMELTERS.....	Lead Smelter Sites
US AIRS.....	Aerometric Information Retrieval System Facility Subsystem
US MINES.....	Mines Master Index File
ABANDONED MINES.....	Abandoned Mines
FINDS.....	Facility Index System/Facility Registry System
DOCKET HWC.....	Hazardous Waste Compliance Docket Listing
UXO.....	Unexploded Ordnance Sites
ECHO.....	Enforcement & Compliance History Information
FUELS PROGRAM.....	EPA Fuels Program Registered Listing
CA BOND EXP. PLAN.....	Bond Expenditure Plan
Cortese.....	"Cortese" Hazardous Waste & Substances Sites List
CUPA Listings.....	CUPA Resources List
EML.....	Emissions Inventory Data
ENF.....	Enforcement Action Listing
Financial Assurance.....	Financial Assurance Information Listing
HAZNET.....	Facility and Manifest Data
ICE.....	ICE
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
UIC.....	UIC Listing
UIC GEO.....	UIC GEO (GEOTRACKER)
WASTEWATER PITS.....	Oil Wastewater Pits Listing
WDS.....	Waste Discharge System
WIP.....	Well Investigation Program Case List
MILITARY PRIV SITES.....	MILITARY PRIV SITES (GEOTRACKER)
PROJECT.....	PROJECT (GEOTRACKER)
WDR.....	Waste Discharge Requirements Listing
CIWQS.....	California Integrated Water Quality System
CERS.....	CERS
NON-CASE INFO.....	NON-CASE INFO (GEOTRACKER)
OTHER OIL GAS.....	OTHER OIL & GAS (GEOTRACKER)
PROD WATER PONDS.....	PROD WATER PONDS (GEOTRACKER)
SAMPLING POINT.....	SAMPLING POINT (GEOTRACKER)
WELL STIM PROJ.....	Well Stimulation Project (GEOTRACKER)

### EDR HIGH RISK HISTORICAL RECORDS

#### ***EDR Exclusive Records***

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

### EDR RECOVERED GOVERNMENT ARCHIVES

#### ***Exclusive Recovered Govt. Archives***

RGA LF.....	Recovered Government Archive Solid Waste Facilities List
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# EXECUTIVE SUMMARY

RGA LUST..... Recovered Government Archive Leaking Underground Storage Tank

## SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.

Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

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

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

## STANDARD ENVIRONMENTAL RECORDS

### ***Federal RCRA generators list***

RCRA-SQG: 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.

A review of the RCRA-SQG list, as provided by EDR, and dated 03/25/2019 has revealed that there is 1 RCRA-SQG site within approximately 0.25 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
CONSOLIDATED PRODUCT EPA ID:: CAD982018541	54125 MARANATHA DR	WSW 1/8 - 1/4 (0.219 mi.)	C11	28

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

SWF/LF: The Solid Waste Facilities/Landfill Sites records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. The data come from the Integrated Waste Management Board's Solid Waste Information System (SWIS) database.

A review of the SWF/LF list, as provided by EDR, has revealed that there is 1 SWF/LF 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>
<b><i>IDYLLWILD ROAD YARD</i></b> Database: SWF/LF (SWIS), Date of Government Version: 08/12/2019 Facility ID: 33-AA-0338 Operational Status: Active Regulation Status: Notification	<b><i>25-780 JOHNSON ROAD</i></b>	<b><i>WSW 1/8 - 1/4 (0.131 mi.)</i></b>	<b><i>A1</i></b>	<b><i>8</i></b>

## EXECUTIVE SUMMARY

### **State and tribal leaking storage tank lists**

LUST: Leaking Underground Storage Tank (LUST) Sites included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

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

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>VILLAGE FOOD AND FUE</b>	<b>26128 HWY 243</b>	<b>SSW 1/4 - 1/2 (0.280 mi.)</b>	<b>14</b>	<b>33</b>
Database: LUST REG 8, Date of Government Version: 02/14/2005				
Database: LUST, Date of Government Version: 06/10/2019				
Database: RIVERSIDE CO. LUST, Date of Government Version: 07/10/2019				
Status: Completed - Case Closed				
Facility Status: Pollution Characterization				
Facility Id: 971090				
Global Id: T0606500511				
Global ID: T0606500511				
Facility Status: 9				

### **State and tribal registered storage tank lists**

AST: A listing of aboveground storage tank petroleum storage tank locations.

A review of the AST list, as provided by EDR, has revealed that there are 2 AST sites within approximately 0.25 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>IDYLLWILD ROAD YARD</b>	<b>25-780 JOHNSON ROAD</b>	<b>WSW 1/8 - 1/4 (0.131 mi.)</b>	<b>A1</b>	<b>8</b>
Database: AST, Date of Government Version: 07/06/2016				
COUNTY OF RIVERSIDE	25780 JOHNSON RD	SW 1/8 - 1/4 (0.147 mi.)	A2	11
Database: AST, Date of Government Version: 07/06/2016				

### **ADDITIONAL ENVIRONMENTAL RECORDS**

#### **Local Lists of Hazardous waste / Contaminated Sites**

CERS HAZ WASTE: List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the Hazardous Chemical Management, Hazardous Waste Onsite Treatment, Household Hazardous Waste Collection, Hazardous Waste Generator, and RCRA LQ HW Generator programs.

A review of the CERS HAZ WASTE list, as provided by EDR, and dated 08/14/2019 has revealed that there are 3 CERS HAZ WASTE sites within approximately 0.25 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>RIVERSIDE COUNTY DEP</b>	<b>25780 JOHNSON RD</b>	<b>SW 1/8 - 1/4 (0.147 mi.)</b>	<b>A6</b>	<b>15</b>
<b>SOUTH BAY CABLE CORP</b>	<b>54125 MARANATHA DR</b>	<b>WSW 1/8 - 1/4 (0.219 mi.)</b>	<b>C10</b>	<b>24</b>
<b>IDYLLWILD AUTOMOTIVE</b>	<b>54170 PINE CREST AVE</b>	<b>SW 1/8 - 1/4 (0.234 mi.)</b>	<b>D13</b>	<b>30</b>

## EXECUTIVE SUMMARY

### **Local Lists of Registered Storage Tanks**

HIST UST: Historical UST Registered Database.

A review of the HIST UST list, as provided by EDR, and dated 10/15/1990 has revealed that there are 2 HIST UST sites within approximately 0.25 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>IDYLLWILD ROAD YARD</b> Facility Id: 00000065441	<b>25-780 JOHNSON ROAD</b>	<b>WSW 1/8 - 1/4 (0.131 mi.)</b>	<b>A1</b>	<b>8</b>
FOREST LUMBER Facility Id: 00000017778	54200 PINECREST AVE	SW 1/8 - 1/4 (0.214 mi.)	B9	23

CERS TANKS: List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the Aboveground Petroleum Storage and Underground Storage Tank regulatory programs.

A review of the CERS TANKS list, as provided by EDR, and dated 08/14/2019 has revealed that there is 1 CERS TANKS site within approximately 0.25 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>RIVERSIDE COUNTY DEP</b>	<b>25780 JOHNSON RD</b>	<b>SW 1/8 - 1/4 (0.147 mi.)</b>	<b>A6</b>	<b>15</b>

### **Other Ascertainable Records**

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

A review of the RCRA NonGen / NLR list, as provided by EDR, and dated 03/25/2019 has revealed that there are 5 RCRA NonGen / NLR sites within approximately 0.25 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
RIVERSIDE COUNTY TRA EPA ID:: CAL000030851	25780 JOHNSON RD	SW 1/8 - 1/4 (0.147 mi.)	A3	11
RIVERSIDE COUNTY DEP EPA ID:: CAH111001192	25780 JOHNSON RD	SW 1/8 - 1/4 (0.147 mi.)	A4	13
<b>ROAD DEPT OF RIVERSI</b> EPA ID:: CAR000086215	<b>25780 JOHNSON RD</b>	<b>SW 1/8 - 1/4 (0.147 mi.)</b>	<b>A5</b>	<b>14</b>
CALIFORNIA STATE PAR EPA ID:: CAL000361474	25905 HIGHWAY 243	SSW 1/8 - 1/4 (0.152 mi.)	7	22
IDYLLWILD AUTO EPA ID:: CAL000414694	54170 PINECREST	SW 1/8 - 1/4 (0.234 mi.)	D12	29

## EXECUTIVE SUMMARY

**DRYCLEANERS:** 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 cleaners' agents; linen supply; coin-operated laundries and cleaning; drycleaning plants except rugs; carpet and upholster cleaning; industrial launderers; laundry and garment services.

A review of the DRYCLEANERS list, as provided by EDR, has revealed that there is 1 DRYCLEANERS site within approximately 0.25 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
EGANS DRY CLEANING & Database: DRYCLEAN SOUTH COAST, Date of Government Version: 03/19/2019	54240 PINECREST	SW 1/8 - 1/4 (0.160 mi.)	B8	23

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

A review of the HIST CORTESE list, as provided by EDR, and dated 04/01/2001 has revealed that there is 1 HIST CORTESE 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>
<b>VILLAGE FOOD AND FUE</b> Reg Id: 083303114T	<b>26128 HWY 243</b>	<b>SSW 1/4 - 1/2 (0.280 mi.)</b>	<b>14</b>	<b>33</b>

**Notify 65:** 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.

A review of the Notify 65 list, as provided by EDR, and dated 06/17/2019 has revealed that there is 1 Notify 65 site within approximately 1 mile of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>IDYLLWILD CHEVRON #2</b>	<b>25015 HIGHWAY 243</b>	<b>WNW 1/2 - 1 (0.623 mi.)</b>	<b>15</b>	<b>44</b>



## EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 1 records.

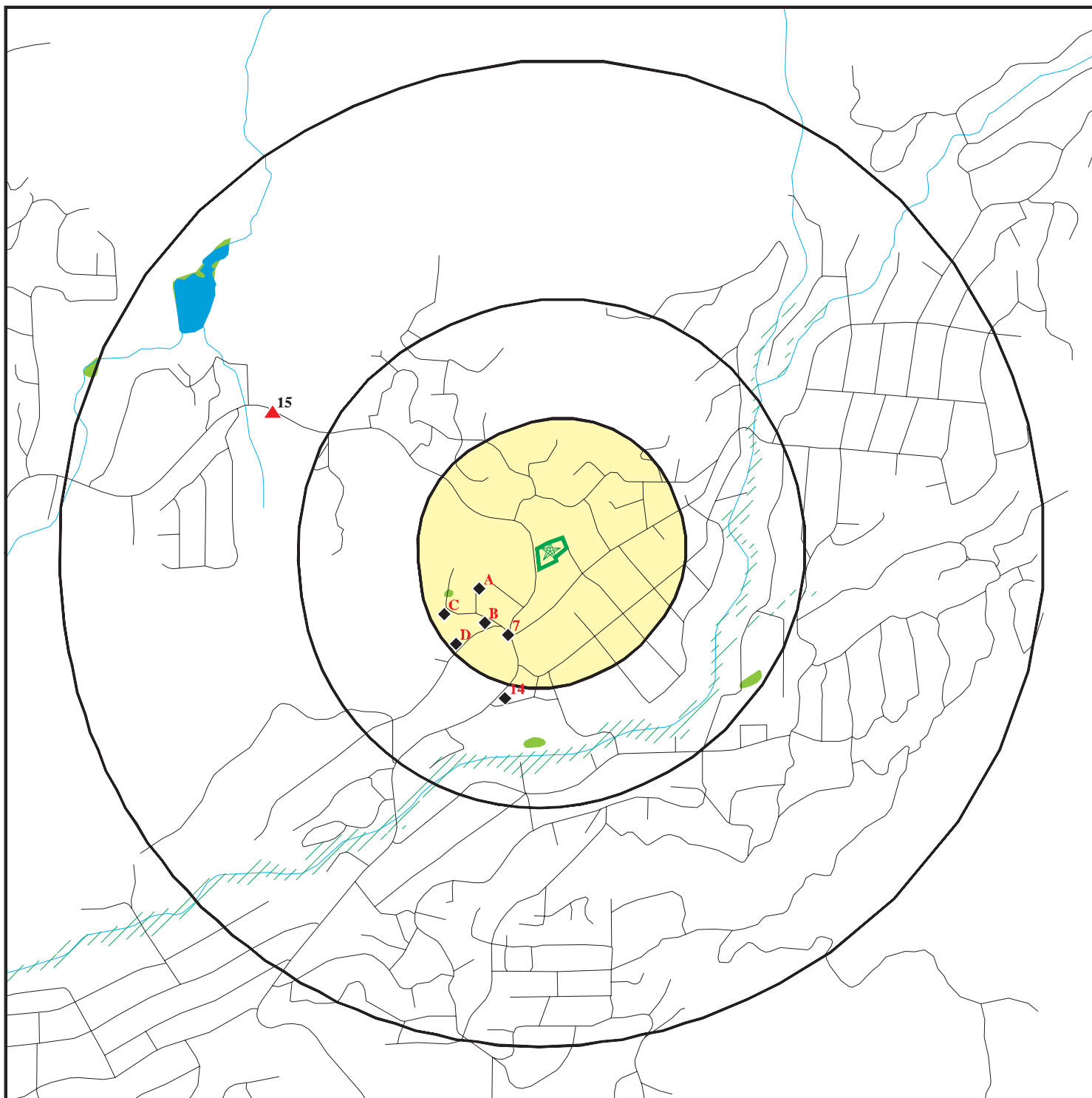
Site Name

Database(s)


IDYLLWILD DISPOSAL SITE


RGA LF

# OVERVIEW MAP - 5830468.2S



 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

 Special Flood Hazard Area (1%)

 0.2% Annual Chance Flood Hazard

 National Wetland Inventory

 State Wetlands

 Areas of Concern

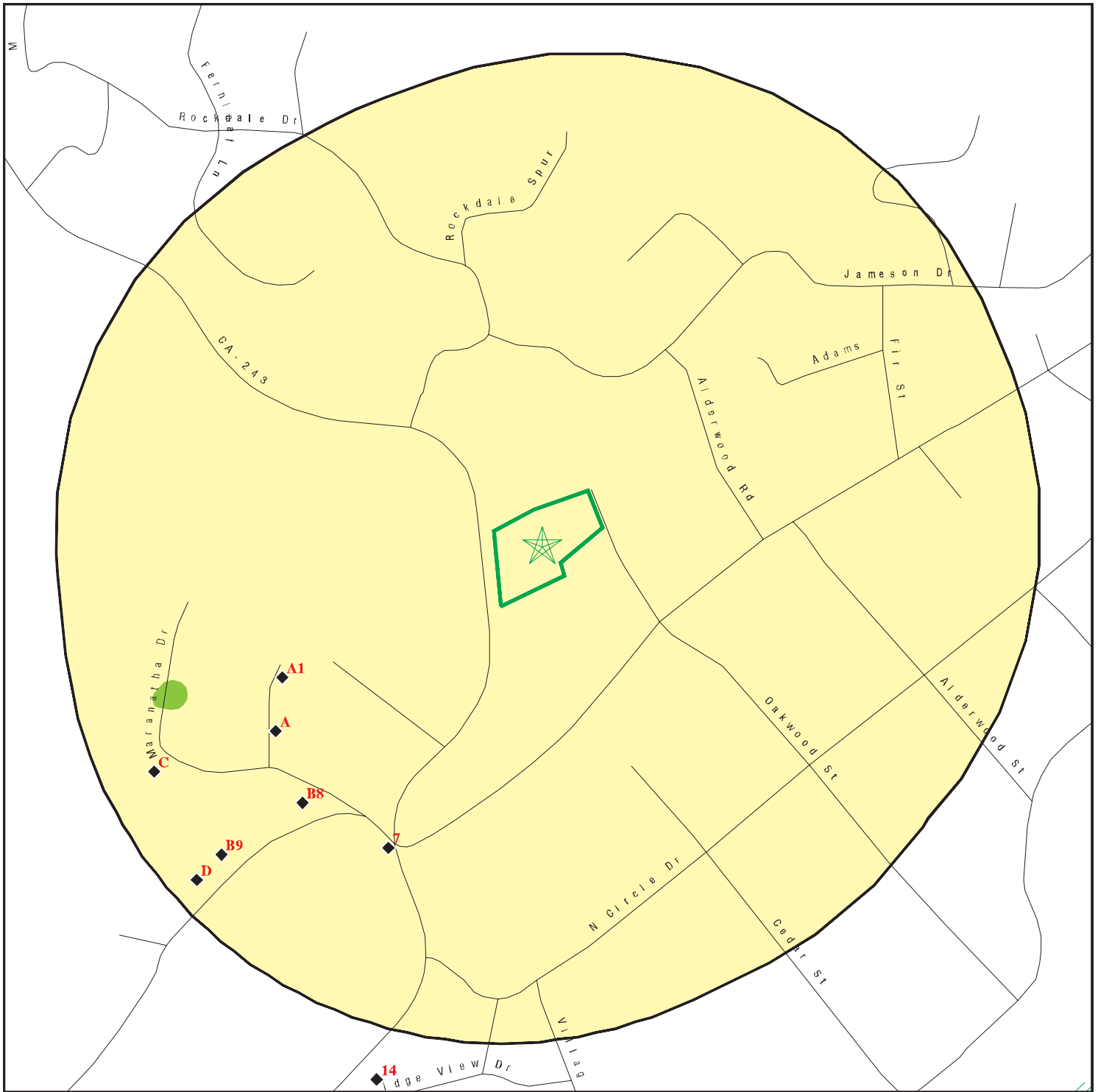









This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.







SITE NAME: Idyllwild Road  
 ADDRESS: 25840 IDYLLWILD RD  
 IDYLLWILD CA 92549  
 LAT/LONG: 33.749004 / 116.713426

CLIENT: Partner Engineering and Science, Inc.  
 CONTACT: Sasha Mick  
 INQUIRY #: 5830468.2s  
 DATE: October 15, 2019 4:12 pm

# DETAIL MAP - 5830468.2S



-  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
-  Special Flood Hazard Area (1%)
-  0.2% Annual Chance Flood Hazard
-  National Wetland Inventory
-  State Wetlands
-  Areas of Concern

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

SITE NAME: Idyllwild Road  
 ADDRESS: 25840 IDYLLWILD RD  
 IDYLLWILD CA 92549  
 LAT/LONG: 33.749004 / 116.713426

CLIENT: Partner Engineering and Science, Inc.  
 CONTACT: Sasha Mick  
 INQUIRY #: 5830468.2s  
 DATE: October 15, 2019 4:17 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
<b>STANDARD ENVIRONMENTAL RECORDS</b>								
<b><i>Federal NPL site list</i></b>								
NPL	1.000		0	0	0	0	NR	0
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	1.000		0	0	0	0	NR	0
<b><i>Federal Delisted NPL site list</i></b>								
Delisted NPL	1.000		0	0	0	0	NR	0
<b><i>Federal CERCLIS list</i></b>								
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
SEMS	0.500		0	0	0	NR	NR	0
<b><i>Federal CERCLIS NFRAP site list</i></b>								
SEMS-ARCHIVE	0.500		0	0	0	NR	NR	0
<b><i>Federal RCRA CORRACTS facilities list</i></b>								
CORRACTS	1.000		0	0	0	0	NR	0
<b><i>Federal RCRA non-CORRACTS TSD facilities list</i></b>								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
<b><i>Federal RCRA generators list</i></b>								
RCRA-LQG	0.250		0	0	NR	NR	NR	0
RCRA-SQG	0.250		0	1	NR	NR	NR	1
RCRA-VSQG	0.250		0	0	NR	NR	NR	0
<b><i>Federal institutional controls / engineering controls registries</i></b>								
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
<b><i>Federal ERNS list</i></b>								
ERNS	TP		NR	NR	NR	NR	NR	0
<b><i>State- and tribal - equivalent NPL RESPONSE</i></b>								
RESPONSE	1.000		0	0	0	0	NR	0
<b><i>State- and tribal - equivalent CERCLIS ENVIROSTOR</i></b>								
ENVIROSTOR	1.000		0	0	0	0	NR	0
<b><i>State and tribal landfill and/or solid waste disposal site lists</i></b>								
SWF/LF	0.500		0	1	0	NR	NR	1
<b><i>State and tribal leaking storage tank lists</i></b>								
LUST	0.500		0	0	1	NR	NR	1

## MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
INDIAN LUST	0.500		0	0	0	NR	NR	0
CPS-SLIC	0.500		0	0	0	NR	NR	0
<b>State and tribal registered storage tank lists</b>								
FEMA UST	0.250		0	0	NR	NR	NR	0
UST	0.250		0	0	NR	NR	NR	0
AST	0.250		0	2	NR	NR	NR	2
INDIAN UST	0.250		0	0	NR	NR	NR	0
<b>State and tribal voluntary cleanup sites</b>								
VCP	0.500		0	0	0	NR	NR	0
INDIAN VCP	0.500		0	0	0	NR	NR	0
<b>State and tribal Brownfields sites</b>								
BROWNFIELDS	0.500		0	0	0	NR	NR	0
<b>ADDITIONAL ENVIRONMENTAL RECORDS</b>								
<b>Local Brownfield lists</b>								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
<b>Local Lists of Landfill / Solid Waste Disposal Sites</b>								
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
ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
IHS OPEN DUMPS	0.500		0	0	0	NR	NR	0
<b>Local Lists of Hazardous waste / Contaminated Sites</b>								
US HIST CDL	TP		NR	NR	NR	NR	NR	0
HIST Cal-Sites	1.000		0	0	0	0	NR	0
SCH	0.250		0	0	NR	NR	NR	0
CDL	TP		NR	NR	NR	NR	NR	0
Toxic Pits	1.000		0	0	0	0	NR	0
CERS HAZ WASTE	0.250		0	3	NR	NR	NR	3
US CDL	TP		NR	NR	NR	NR	NR	0
PFAS	0.500		0	0	0	NR	NR	0
<b>Local Lists of Registered Storage Tanks</b>								
SWEEPS UST	0.250		0	0	NR	NR	NR	0
HIST UST	0.250		0	2	NR	NR	NR	2
CERS TANKS	0.250		0	1	NR	NR	NR	1
CA FID UST	0.250		0	0	NR	NR	NR	0
<b>Local Land Records</b>								
LIENS	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
LIENS 2	TP		NR	NR	NR	NR	NR	0
DEED	0.500		0	0	0	NR	NR	0
<b>Records of Emergency Release Reports</b>								
HMIRS	TP		NR	NR	NR	NR	NR	0
CHMIRS	TP		NR	NR	NR	NR	NR	0
LDS	TP		NR	NR	NR	NR	NR	0
MCS	TP		NR	NR	NR	NR	NR	0
SPILLS 90	TP		NR	NR	NR	NR	NR	0
<b>Other Ascertainable Records</b>								
RCRA NonGen / NLR	0.250		0	5	NR	NR	NR	5
FUDS	1.000		0	0	0	0	NR	0
DOD	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
US FIN ASSUR	TP		NR	NR	NR	NR	NR	0
EPA WATCH LIST	TP		NR	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
TSCA	TP		NR	NR	NR	NR	NR	0
TRIS	TP		NR	NR	NR	NR	NR	0
SSTS	TP		NR	NR	NR	NR	NR	0
ROD	1.000		0	0	0	0	NR	0
RMP	TP		NR	NR	NR	NR	NR	0
RAATS	TP		NR	NR	NR	NR	NR	0
PRP	TP		NR	NR	NR	NR	NR	0
PADS	TP		NR	NR	NR	NR	NR	0
ICIS	TP		NR	NR	NR	NR	NR	0
FTTS	TP		NR	NR	NR	NR	NR	0
MLTS	TP		NR	NR	NR	NR	NR	0
COAL ASH DOE	TP		NR	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
PCB TRANSFORMER	TP		NR	NR	NR	NR	NR	0
RADINFO	TP		NR	NR	NR	NR	NR	0
HIST FTTS	TP		NR	NR	NR	NR	NR	0
DOT OPS	TP		NR	NR	NR	NR	NR	0
CONSENT	1.000		0	0	0	0	NR	0
INDIAN RESERV	1.000		0	0	0	0	NR	0
FUSRAP	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
LEAD SMELTERS	TP		NR	NR	NR	NR	NR	0
US AIRS	TP		NR	NR	NR	NR	NR	0
US MINES	0.250		0	0	NR	NR	NR	0
ABANDONED MINES	0.250		0	0	NR	NR	NR	0
FINDS	TP		NR	NR	NR	NR	NR	0
DOCKET HWC	TP		NR	NR	NR	NR	NR	0
UXO	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
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



MAP FINDINGS

Map ID  
 Direction  
 Distance  
 Elevation

Site

Database(s)

EDR ID Number  
 EPA ID Number

**A1**  
**WSW**  
**1/8-1/4**  
**0.131 mi.**  
**693 ft.**

**IDYLLWILD ROAD YARD**  
**25-780 JOHNSON ROAD**  
**IDYLLWILD, CA 92349**

**Site 1 of 6 in cluster A**

**SWF/LF** U001575126  
**AST** N/A  
**HIST UST**  
**CERS**

**Relative:**  
**Lower**

SWF/LF (SWIS):

**Actual:**  
**5373 ft.**

Name: IDYLLWILD MAINTENANCE YARD  
 Address: 25-780 JOHNSON RD.  
 City,State,Zip: IDYLLWILD, CA  
 Facility ID: 33-AA-0338  
 Lat/Long: 33.7479 / -116.71611  
 Owner Name: Riverside County Transportation Dept.  
 Owner Telephone: 9519556899  
 Owner Address: Paul Russel  
 Owner Address2: 2950 Washington St.  
 Owner City,St,Zip: Riverside, CA 92504  
 Operational Status: Active  
 Operator: Riverside County Transportation Dep.  
 Operator Phone: 9516592603  
 Operator Address: Ryan Righetti  
 Operator Address2: 25-780 Johnson Rd.  
 Operator City,St,Zip: Idyllwild, CA 92549  
 Permit Date: 12/27/2011  
 Permit Status: Notification  
 Permitted Acreage: \$2.00  
 Activity: Limited Volume Transfer Operation  
 Regulation Status: Notification  
 Landuse Name: Not reported  
 GIS Source: Map  
 Category: Transfer/Processing  
 Unit Number: 01  
 Inspection Frequency: Quarterly  
 Accepted Waste: Dead Animals,Green Materials,Inert,Metals,Mixed municipal,Tires,Tires, Shreds  
 Closure Date: Not reported  
 Closure Type: Not reported  
 Disposal Acreage: Not reported  
 SWIS Num: 33-AA-0338  
 Waste Discharge Requirement Num: Not reported  
 Program Type: Not reported  
 Permitted Throughput with Units: 60  
 Actual Throughput with Units: Cu Yards/day  
 Permitted Capacity with Units: 12480  
 Remaining Capacity: Not reported  
 Remaining Capacity with Units: Cu Yards/year  
 Lat/Long: 33.7479 / -116.71611

AST:

Name: IDYLLWILD  
 Address: 25-780 JOHNSON  
 City/Zip: IDYLLWILD,  
 Certified Unified Program Agencies: Riverside  
 Owner: COUNTY OF RIVERSIDE  
 Total Gallons: 4,000  
 CERSID: Not reported  
 Facility ID: Not reported  
 Business Name: Not reported  
 Phone: Not reported



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**IDYLLWILD ROAD YARD (Continued)**

**U001575126**

Fax: Not reported  
Mailing Address: Not reported  
Mailing Address City: Not reported  
Mailing Address State: Not reported  
Mailing Address Zip Code: Not reported  
Operator Name: Not reported  
Operator Phone: Not reported  
Owner Phone: Not reported  
Owner Mail Address: Not reported  
Owner State: Not reported  
Owner Zip Code: Not reported  
Owner Country: Not reported  
Property Owner Name: Not reported  
Property Owner Phone: Not reported  
Property Owner Mailing Address: Not reported  
Property Owner City: Not reported  
Property Owner Stat : Not reported  
Property Owner Zip Code: Not reported  
Property Owner Country: Not reported  
EPAID: Not reported

**HIST UST:**

Name: IDYLLWILD ROAD YARD  
Address: 25-780 JOHNSON ROAD  
City,State,Zip: IDYLLWILD, CA 92349  
File Number: 0001F58D  
URL: <http://geotracker.waterboards.ca.gov/ustpdfs/pdf/0001F58D.pdf>  
Region: STATE  
Facility ID: 00000065441  
Facility Type: Other  
Other Type: VEHICLE REPAIR  
Contact Name: TOM OLIVAS  
Telephone: 7146592603  
Owner Name: COUNTY OF RIVERSIDE ROAD DEPAR  
Owner Address: 4080 LEMON STREET  
Owner City,St,Zip: RIVERSIDE, CA 92501  
Total Tanks: 0004

Tank Num: 001  
Container Num: 1  
Year Installed: 1980  
Tank Capacity: 00003000  
Tank Used for: PRODUCT  
Type of Fuel: DIESEL  
Container Construction Thickness: Not reported  
Leak Detection: Stock Inventor

Tank Num: 002  
Container Num: 2  
Year Installed: 1965  
Tank Capacity: 00001000  
Tank Used for: PRODUCT  
Type of Fuel: DIESEL  
Container Construction Thickness: Not reported  
Leak Detection: Stock Inventor

Tank Num: 003

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**IDYLLWILD ROAD YARD (Continued)**

**U001575126**

Container Num: 3  
Year Installed: 1965  
Tank Capacity: 00001000  
Tank Used for: PRODUCT  
Type of Fuel: UNLEADED  
Container Construction Thickness: Not reported  
Leak Detection: Stock Inventor

Tank Num: 004  
Container Num: 4  
Year Installed: 1965  
Tank Capacity: 00000500  
Tank Used for: PRODUCT  
Type of Fuel: Not reported  
Container Construction Thickness: Not reported  
Leak Detection: None

[Click here for Geo Tracker PDF:](#)

**CERS:**

Name: IDYLLWILD MAINTENANCE YARD  
Address: 25-780 JOHNSON RD.  
City,State,Zip: IDYLLWILD, CA  
Site ID: 509322  
CERS ID: 33-AA-0338  
CERS Description: Solid Waste and Recycle Sites

**Affiliation:**

Affiliation Type Desc: Legal Owner  
Entity Name: Riverside County Transportation Dept.  
Entity Title: Not reported  
Affiliation Address: Paul Russel2950 Washington St.  
Affiliation City: Riverside  
Affiliation State: CA  
Affiliation Country: Not reported  
Affiliation Zip: 92504  
Affiliation Phone: 9519556899

Affiliation Type Desc: Legal Operator  
Entity Name: Riverside County Transportation Dep.  
Entity Title: Not reported  
Affiliation Address: Ryan Righetti25-780 Johnson Rd.  
Affiliation City: Idyllwild  
Affiliation State: CA  
Affiliation Country: Not reported  
Affiliation Zip: 92549  
Affiliation Phone: 9516592603

MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Site

Database(s)

EDR ID Number  
EPA ID Number

**A2**  
**SW**  
**1/8-1/4**  
**0.147 mi.**  
**778 ft.**

**COUNTY OF RIVERSIDE TLMA RD - IDYLL**  
**25780 JOHNSON RD**  
**IDYLLWILD, CA 92549**

**AST** **A100419073**  
**N/A**

**Site 2 of 6 in cluster A**

**Relative:**  
**Lower**  
**Actual:**  
**5362 ft.**

**AST:**  
Name: COUNTY OF RIVERSIDE TLMA RD - IDYLL  
Address: 25780 JOHNSON RD  
City/Zip: IDYLLWILD,92549  
Certified Unified Program Agencies: Not reported  
Owner: County of Riverside TLMA Road  
Total Gallons: Not reported  
CERSID: 10320721  
Facility ID: FA0020907  
Business Name: County Of Riverside TLMA Rd - Idyll  
Phone: (951) 659-2603  
Fax: Not reported  
Mailing Address: 2950 Washington St  
Mailing Address City: Riverside  
Mailing Address State: CA  
Mailing Address Zip Code: 92504  
Operator Name: Riverside County Transportation Department  
Operator Phone: (951) 659-2603  
Owner Phone: (951) 955-6740  
Owner Mail Address: PO Box 1605  
Owner State: CA  
Owner Zip Code: Not reported  
Owner Country: United States  
Property Owner Name: Riverside County Transportation Department  
Property Owner Phone: 951-955-6899  
Property Owner Mailing Address: 2950 Washington St.  
Property Owner City: Riverside  
Property Owner Stat : CA  
Property Owner Zip Code: 92504  
Property Owner Country: United States  
EPAID: CAL000030851

**A3**  
**SW**  
**1/8-1/4**  
**0.147 mi.**  
**778 ft.**

**RIVERSIDE COUNTY TRANS DEPT**  
**25780 JOHNSON RD**  
**IDYLLWILD, CA 92349**

**RCRA NonGen / NLR** **1024787323**  
**CAL000030851**

**Site 3 of 6 in cluster A**

**Relative:**  
**Lower**  
**Actual:**  
**5362 ft.**

**RCRA NonGen / NLR:**  
Date form received by agency: 05/16/1990  
Facility name: RIVERSIDE COUNTY TRANS DEPT  
Facility address: 25780 JOHNSON RD  
IDYLLWILD, CA 92349-0000  
EPA ID: CAL000030851  
Mailing address: 2950 WASHINGTON ST  
RIVERSIDE, CA 92504-0000  
Contact: DANIEL LEYVA  
Contact address: 2950 WASHINGTON ST  
RIVERSIDE, CA 92504  
Contact country: Not reported  
Contact telephone: 951-955-6788  
Contact email: DLEYVA@RIVCO.ORG  
EPA Region: 09  
Classification: Non-Generator

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**RIVERSIDE COUNTY TRANS DEPT (Continued)**

**1024787323**

Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name: RIVERSIDE COUNTY TRANSPORTATIO DEPT  
Owner/operator address: 2950 WASHINGTON ST.  
RIVERSIDE, CA 92504  
Owner/operator country: Not reported  
Owner/operator telephone: 909-955-6805  
Owner/operator email: Not reported  
Owner/operator fax: Not reported  
Owner/operator extension: Not reported  
Legal status: Other  
Owner/Operator Type: Owner  
Owner/Op start date: Not reported  
Owner/Op end date: Not reported

Owner/operator name: DANIEL LEYVA  
Owner/operator address: 2950 WASHINGTON ST  
RIVERSIDE, CA 92504  
Owner/operator country: Not reported  
Owner/operator telephone: 951-955-6788  
Owner/operator email: Not reported  
Owner/operator fax: Not reported  
Owner/operator extension: Not reported  
Legal status: Other  
Owner/Operator Type: Operator  
Owner/Op start date: Not reported  
Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No  
Mixed waste (haz. and radioactive): No  
Recycler of hazardous waste: No  
Transporter of hazardous waste: Yes  
Treater, storer or disposer of HW: No  
Underground injection activity: No  
On-site burner exemption: No  
Furnace exemption: No  
Used oil fuel burner: No  
Used oil processor: No  
User oil refiner: No  
Used oil fuel marketer to burner: No  
Used oil Specification marketer: No  
Used oil transfer facility: No  
Used oil transporter: No

Violation Status: No violations found

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

A4  
SW  
1/8-1/4  
0.147 mi.  
778 ft.

RIVERSIDE COUNTY DEPT OF WASTE RESOURCES  
25780 JOHNSON RD  
IDYLLWILD, CA 92549

RCRA NonGen / NLR

1024785061  
CAH111001192

Site 4 of 6 in cluster A

Relative:  
Lower

RCRA NonGen / NLR:

Actual:  
5362 ft.

Date form received by agency: 06/20/2006  
Facility name: RIVERSIDE COUNTY DEPT OF WASTE RESOURCES  
Facility address: 25780 JOHNSON RD  
IDYLLWILD, CA 92549  
EPA ID: CAH111001192  
Mailing address: 14310 FREDERICK ST  
MORENO VALLEY, CA 92553  
Contact: DIANE CHRISTENSEN  
Contact address: 14310 FREDERICK ST  
MORENO VALLEY, CA 92553  
Contact country: Not reported  
Contact telephone: 951-486-3282  
Contact email: DCHRISTENSEN@CO.RIVERSIDE.CA.US  
EPA Region: 09  
Classification: Non-Generator  
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name: RIVERSIDE COUNTY DEPT OF WASTE RESO  
Owner/operator address: 14310 FREDERICK ST  
MORENO VALLEY, CA 92553  
Owner/operator country: Not reported  
Owner/operator telephone: 000-000-0000  
Owner/operator email: Not reported  
Owner/operator fax: Not reported  
Owner/operator extension: Not reported  
Legal status: Other  
Owner/Operator Type: Owner  
Owner/Op start date: Not reported  
Owner/Op end date: Not reported

Owner/operator name: DIANE CHRISTENSEN  
Owner/operator address: 14310 FREDERICK ST  
MORENO VALLEY, CA 92553  
Owner/operator country: Not reported  
Owner/operator telephone: 951-486-3282  
Owner/operator email: Not reported  
Owner/operator fax: Not reported  
Owner/operator extension: Not reported  
Legal status: Other  
Owner/Operator Type: Operator  
Owner/Op start date: Not reported  
Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No  
Mixed waste (haz. and radioactive): No  
Recycler of hazardous waste: No  
Transporter of hazardous waste: Yes  
Treater, storer or disposer of HW: No  
Underground injection activity: No

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**RIVERSIDE COUNTY DEPT OF WASTE RESOURCES (Continued)**

**1024785061**

On-site burner exemption: No  
Furnace exemption: No  
Used oil fuel burner: No  
Used oil processor: No  
Used oil refiner: No  
Used oil fuel marketer to burner: No  
Used oil Specification marketer: No  
Used oil transfer facility: No  
Used oil transporter: No

Violation Status: No violations found

**A5  
SW  
1/8-1/4  
0.147 mi.  
778 ft.**

**ROAD DEPT OF RIVERSIDE  
25780 JOHNSON RD  
IDYLLWILD, CA 92349  
Site 5 of 6 in cluster A**

**RCRA NonGen / NLR  
FINDS  
ECHO**

**1004676515  
CAR000086215**

**Relative:  
Lower  
Actual:  
5362 ft.**

RCRA NonGen / NLR:  
Date form received by agency: 12/26/2000  
Facility name: ROAD DEPT OF RIVERSIDE  
Facility address: 25780 JOHNSON RD  
IDYLLWILD, CA 92349  
EPA ID: CAR000086215  
Contact: JOSEPH SALINAS  
Contact address: 4080 LEMON ST 8TH FLOOR  
RIVERSIDE, CA 92501  
Contact country: US  
Contact telephone: 909-955-6788  
Contact email: Not reported  
EPA Region: 09  
Classification: Non-Generator  
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:  
Owner/operator name: RIVERSIDE COUNTY  
Owner/operator address: 25780 JOHNSON RD  
IDYLLWILD, CA 92349  
Owner/operator country: Not reported  
Owner/operator telephone: 909-659-2603  
Owner/operator email: Not reported  
Owner/operator fax: Not reported  
Owner/operator extension: Not reported  
Legal status: Private  
Owner/Operator Type: Owner  
Owner/Op start date: Not reported  
Owner/Op end date: Not reported

Handler Activities Summary:  
U.S. importer of hazardous waste: No  
Mixed waste (haz. and radioactive): No  
Recycler of hazardous waste: No  
Transporter of hazardous waste: No  
Treater, storer or disposer of HW: No  
Underground injection activity: No  
On-site burner exemption: No  
Furnace exemption: No  
Used oil fuel burner: No

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**ROAD DEPT OF RIVERSIDE (Continued)**

**1004676515**

Used oil processor: No  
User oil refiner: No  
Used oil fuel marketer to burner: No  
Used oil Specification marketer: No  
Used oil transfer facility: No  
Used oil transporter: No

Hazardous Waste Summary:

. Waste code: D001  
. Waste name: IGNITABLE WASTE  
  
. Waste code: D018  
. Waste name: BENZENE  
  
. Waste code: D039  
. Waste name: TETRACHLOROETHYLENE

Violation Status: No violations found

FINDS:

Registry ID: 110012210883

Environmental Interest/Information System

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

[Click this hyperlink](#) while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid: 1004676515  
Registry ID: 110012210883  
DFR URL: <http://echo.epa.gov/detailed-facility-report?fid=110012210883>

**A6**  
**SW**  
**1/8-1/4**  
**0.147 mi.**  
**778 ft.**

**RIVERSIDE COUNTY DEPT OF WASTE RESOURCES**  
**25780 JOHNSON RD**  
**IDYLLWILD, CA 92549**  
**Site 6 of 6 in cluster A**

**CERS HAZ WASTE** **S113020541**  
**CERS TANKS** **N/A**  
**HAZNET**  
**CERS**

**Relative:**  
**Lower**  
**Actual:**  
**5362 ft.**

CERS HAZ WASTE:  
Name: COUNTY OF RIVERSIDE TLMA RD - IDYLL  
Address: 25780 JOHNSON RD  
City,State,Zip: IDYLLWILD, CA 92549  
Site ID: 390700  
CERS ID: 10320721  
CERS Description: Hazardous Waste Generator

CERS TANKS:  
Name: COUNTY OF RIVERSIDE TLMA RD - IDYLL

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**RIVERSIDE COUNTY DEPT OF WASTE RESOURCES (Continued)**

**S113020541**

Address: 25780 JOHNSON RD  
City,State,Zip: IDYLLWILD, CA 92549  
Site ID: 390700  
CERS ID: 10320721  
CERS Description: Aboveground Petroleum Storage

**HAZNET:**

Name: RIVERSIDE COUNTY DEPT OF WASTE RESOURCES  
Address: 25780 JOHNSON RD  
City,State,Zip: IDYLLWILD, CA 92549  
Year: 2017  
GEPaid: CAH111001192  
Contact: DIANE CHRISTENSEN  
Telephone: 9514863282  
Mailing Name: Not reported  
Mailing Address: 14310 FREDERICK ST  
Mailing City,St,Zip: MORENO VALLEY, CA 92553  
Gen County: Riverside  
TSD EPA ID: NED981723513  
TSD County: 99  
Tons: 0.7125  
CA Waste Code: 612-Household waste  
Method: H040-Incineration--Thermal Destruction Other Than Use As A Fuel  
Facility County: Riverside

Name: RIVERSIDE COUNTY DEPT OF WASTE RESOURCES  
Address: 25780 JOHNSON RD  
City,State,Zip: IDYLLWILD, CA 92549  
Year: 2017  
GEPaid: CAH111001192  
Contact: DIANE CHRISTENSEN  
Telephone: 9514863282  
Mailing Name: Not reported  
Mailing Address: 14310 FREDERICK ST  
Mailing City,St,Zip: MORENO VALLEY, CA 92553  
Gen County: Riverside  
TSD EPA ID: CAD044429835  
TSD County: Los Angeles  
Tons: 1.0686  
CA Waste Code: 612-Household waste  
Method: H141-Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)  
Facility County: Riverside

Name: RIVERSIDE COUNTY DEPT OF WASTE RESOURCES  
Address: 25780 JOHNSON RD  
City,State,Zip: IDYLLWILD, CA 92549  
Year: 2017  
GEPaid: CAH111001192  
Contact: DIANE CHRISTENSEN  
Telephone: 9514863282  
Mailing Name: Not reported  
Mailing Address: 14310 FREDERICK ST  
Mailing City,St,Zip: MORENO VALLEY, CA 92553  
Gen County: Riverside  
TSD EPA ID: CAH111001253  
TSD County: Riverside



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**RIVERSIDE COUNTY DEPT OF WASTE RESOURCES (Continued)**

**S113020541**

Tons: Not reported  
CA Waste Code: -  
Method: H141-Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)  
Facility County: Riverside

Name: RIVERSIDE COUNTY DEPT OF WASTE RESOURCES  
Address: 25780 JOHNSON RD  
City,State,Zip: IDYLLWILD, CA 92549  
Year: 2017  
GEPaid: CAH111001192  
Contact: DIANE CHRISTENSEN  
Telephone: 9514863282  
Mailing Name: Not reported  
Mailing Address: 14310 FREDERICK ST  
Mailing City,St,Zip: MORENO VALLEY, CA 92553  
Gen County: Riverside  
TSD EPA ID: CAH111001253  
TSD County: Riverside  
Tons: 0.0934  
CA Waste Code: 612-Household waste  
Method: -  
Facility County: Riverside

Name: RIVERSIDE COUNTY DEPT OF WASTE RESOURCES  
Address: 25780 JOHNSON RD  
City,State,Zip: IDYLLWILD, CA 92549  
Year: 2016  
GEPaid: CAH111001192  
Contact: DIANE CHRISTENSEN  
Telephone: 9514863282  
Mailing Name: Not reported  
Mailing Address: 14310 FREDERICK ST  
Mailing City,St,Zip: MORENO VALLEY, CA 92553  
Gen County: Riverside  
TSD EPA ID: NED981723513  
TSD County: 99  
Tons: 0.781  
CA Waste Code: 612-Household waste  
Method: H040-Incineration--Thermal Destruction Other Than Use As A Fuel  
Facility County: Riverside

[Click this hyperlink](#) while viewing on your computer to access 41 additional CA\_HAZNET: record(s) in the EDR Site Report.

**CERS:**

Name: COUNTY OF RIVERSIDE TLMA RD - IDYLL  
Address: 25780 JOHNSON RD  
City,State,Zip: IDYLLWILD, CA 92549  
Site ID: 390700  
CERS ID: 10320721  
CERS Description: Chemical Storage Facilities

**Violations:**

Site ID: 390700  
Site Name: County Of Riverside TLMA Rd - Idyll  
Violation Date: 03-26-2019

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**RIVERSIDE COUNTY DEPT OF WASTE RESOURCES (Continued)**

**S113020541**

Citation: HSC 6.95 25508.2 - California Health and Safety Code, Chapter 6.95, Section(s) 25508.2  
Violation Description: Failure to annually review and electronically certify that the business plan is complete and accurate on or before the annual due date.  
Violation Notes: Returned to compliance on 05/16/2019.  
Violation Division: Riverside County Department of Env Health  
Violation Program: HMRRP  
Violation Source: CERS

Site ID: 390700  
Site Name: County Of Riverside TLMA Rd - Idyll  
Violation Date: 03-26-2019  
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)  
Violation Description: Failure to complete and electronically submit a business plan when storing/handling a hazardous material at or above reportable quantities.  
Violation Notes: Returned to compliance on 05/16/2019.  
Violation Division: Riverside County Department of Env Health  
Violation Program: HMRRP  
Violation Source: CERS

Site ID: 390700  
Site Name: County Of Riverside TLMA Rd - Idyll  
Violation Date: 03-26-2019  
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)  
Violation Description: Failure to complete and electronically submit a site map with all required content.  
Violation Notes: Returned to compliance on 05/16/2019.  
Violation Division: Riverside County Department of Env Health  
Violation Program: HMRRP  
Violation Source: CERS

Site ID: 390700  
Site Name: County Of Riverside TLMA Rd - Idyll  
Violation Date: 03-26-2019  
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)  
Violation Description: Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.  
Violation Notes: Returned to compliance on 05/16/2019.  
Violation Division: Riverside County Department of Env Health  
Violation Program: HMRRP  
Violation Source: CERS

Site ID: 390700  
Site Name: County Of Riverside TLMA Rd - Idyll  
Violation Date: 03-26-2019  
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)  
Violation Description: Failure to establish and electronically submit an adequate emergency response plan and procedures for a release or threatened release of a hazardous material.  
Violation Notes: Returned to compliance on 05/16/2019.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**RIVERSIDE COUNTY DEPT OF WASTE RESOURCES (Continued)**

**S113020541**

Violation Division: Riverside County Department of Env Health  
Violation Program: HMRRP  
Violation Source: CERS

Site ID: 390700  
Site Name: County Of Riverside TLMA Rd - Idyll  
Violation Date: 11-27-2018  
Citation: HSC 6.95 25508.2 - California Health and Safety Code, Chapter 6.95, Section(s) 25508.2  
Violation Description: Failure to annually review and electronically certify that the business plan is complete and accurate on or before the annual due date.  
Violation Notes: Returned to compliance on 05/16/2019.  
Violation Division: Riverside County Department of Env Health  
Violation Program: HMRRP  
Violation Source: CERS

Evaluation:  
Eval General Type: Compliance Evaluation Inspection  
Eval Date: 03-26-2019  
Violations Found: No  
Eval Type: Routine done by local agency  
Eval Notes: Not reported  
Eval Division: Riverside County Department of Env Health  
Eval Program: APSA  
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection  
Eval Date: 03-26-2019  
Violations Found: No  
Eval Type: Routine done by local agency  
Eval Notes: Not reported  
Eval Division: Riverside County Department of Env Health  
Eval Program: HW  
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection  
Eval Date: 03-26-2019  
Violations Found: Yes  
Eval Type: Routine done by local agency  
Eval Notes: Not reported  
Eval Division: Riverside County Department of Env Health  
Eval Program: HMRRP  
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection  
Eval Date: 11-19-2014  
Violations Found: No  
Eval Type: Routine done by local agency  
Eval Notes: Not reported  
Eval Division: Riverside County Department of Env Health  
Eval Program: APSA  
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection  
Eval Date: 11-19-2014  
Violations Found: No

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**RIVERSIDE COUNTY DEPT OF WASTE RESOURCES (Continued)**

**S113020541**

Eval Type: Routine done by local agency  
Eval Notes: Not reported  
Eval Division: Riverside County Department of Env Health  
Eval Program: HMRRP  
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection  
Eval Date: 11-19-2014  
Violations Found: No  
Eval Type: Routine done by local agency  
Eval Notes: Not reported  
Eval Division: Riverside County Department of Env Health  
Eval Program: HW  
Eval Source: CERS

Eval General Type: Other/Unknown  
Eval Date: 11-27-2018  
Violations Found: Yes  
Eval Type: Other, not routine, done by local agency  
Eval Notes: Not reported  
Eval Division: Riverside County Department of Env Health  
Eval Program: HMRRP  
Eval Source: CERS

**Affiliation:**

Affiliation Type Desc: Identification Signer  
Entity Name: Daniel Leyva  
Entity Title: Safety Coordinator  
Affiliation Address: Not reported  
Affiliation City: Not reported  
Affiliation State: Not reported  
Affiliation Country: Not reported  
Affiliation Zip: Not reported  
Affiliation Phone: Not reported

Affiliation Type Desc: Parent Corporation  
Entity Name: County Of Riverside TLMA Rd - Idyll  
Entity Title: Not reported  
Affiliation Address: Not reported  
Affiliation City: Not reported  
Affiliation State: Not reported  
Affiliation Country: Not reported  
Affiliation Zip: Not reported  
Affiliation Phone: Not reported

Affiliation Type Desc: CUPA District  
Entity Name: Riverside Cnty Env Health  
Entity Title: Not reported  
Affiliation Address: 4065 County Circle Drive, Room 104  
Affiliation City: Riverside  
Affiliation State: CA  
Affiliation Country: Not reported  
Affiliation Zip: 92503  
Affiliation Phone: (951) 358-5055

Affiliation Type Desc: Environmental Contact  
Entity Name: Tim Divine

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**RIVERSIDE COUNTY DEPT OF WASTE RESOURCES (Continued)**

**S113020541**

Entity Title: Not reported  
Affiliation Address: 25780 Johnson Road  
Affiliation City: Idyllwild  
Affiliation State: CA  
Affiliation Country: Not reported  
Affiliation Zip: 92349  
Affiliation Phone: Not reported

Affiliation Type Desc: Facility Mailing Address  
Entity Name: Mailing Address  
Entity Title: Not reported  
Affiliation Address: 2950 Washington St  
Affiliation City: Riverside  
Affiliation State: CA  
Affiliation Country: Not reported  
Affiliation Zip: 92504  
Affiliation Phone: Not reported

Affiliation Type Desc: Property Owner  
Entity Name: Riverside County Transportation Department  
Entity Title: Not reported  
Affiliation Address: 2950 Washington St.  
Affiliation City: Riverside  
Affiliation State: CA  
Affiliation Country: United States  
Affiliation Zip: 92504  
Affiliation Phone: (951) 955-6899

Affiliation Type Desc: Document Preparer  
Entity Name: Daniel Leyva  
Entity Title: Not reported  
Affiliation Address: Not reported  
Affiliation City: Not reported  
Affiliation State: Not reported  
Affiliation Country: Not reported  
Affiliation Zip: Not reported  
Affiliation Phone: Not reported

Affiliation Type Desc: Legal Owner  
Entity Name: County of Riverside TLMA Road  
Entity Title: Not reported  
Affiliation Address: PO Box 1605  
Affiliation City: Riverside  
Affiliation State: CA  
Affiliation Country: United States  
Affiliation Zip: 92502-1605  
Affiliation Phone: (951) 955-6740

Affiliation Type Desc: Operator  
Entity Name: Riverside County Transportation Department  
Entity Title: Not reported  
Affiliation Address: Not reported  
Affiliation City: Not reported  
Affiliation State: Not reported  
Affiliation Country: Not reported  
Affiliation Zip: Not reported  
Affiliation Phone: (951) 659-2603

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

7  
SSW  
1/8-1/4  
0.152 mi.  
805 ft.

**CALIFORNIA STATE PARKS MOUNT SAN JACINTO SP**  
**25905 HIGHWAY 243**  
**IDYLLWILD, CA 92549**

**RCRA NonGen / NLR**    **1024828958**  
**CAL000361474**

**Relative:**  
**Lower**

RCRA NonGen / NLR:

**Actual:**  
**5359 ft.**

Date form received by agency: 03/04/2011  
Facility name: CALIFORNIA STATE PARKS MOUNT SAN JACINTO SP  
Facility address: 25905 HIGHWAY 243  
IDYLLWILD, CA 92549  
EPA ID: CAL000361474  
Mailing address: 704 O STREET  
1 CAPITOL MALL STE 410  
SACRAMENTO, CA 95814-0000  
Contact: MICHAEL STEPHENS  
Contact address: 704 O STREET  
SACRAMENTO, CA 95814  
Contact country: Not reported  
Contact telephone: 916-324-0412  
Contact email: MICHAEL.STEPHENS@PARKS.CA.GOV  
EPA Region: 09  
Classification: Non-Generator  
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name: CALIF DEPT OF PARKS & RECREATION  
Owner/operator address: 704 O STREET 1 CAPITOL MALL STE 410  
SACRAMENTO, CA 95814  
Owner/operator country: Not reported  
Owner/operator telephone: 916-324-0412  
Owner/operator email: Not reported  
Owner/operator fax: Not reported  
Owner/operator extension: Not reported  
Legal status: Other  
Owner/Operator Type: Owner  
Owner/Op start date: Not reported  
Owner/Op end date: Not reported

Owner/operator name: MICHAEL STEPHENS  
Owner/operator address: 704 O STREET  
SACRAMENTO, CA 95814  
Owner/operator country: Not reported  
Owner/operator telephone: 916-324-0412  
Owner/operator email: Not reported  
Owner/operator fax: Not reported  
Owner/operator extension: Not reported  
Legal status: Other  
Owner/Operator Type: Operator  
Owner/Op start date: Not reported  
Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No  
Mixed waste (haz. and radioactive): No  
Recycler of hazardous waste: No  
Transporter of hazardous waste: Yes  
Treater, storer or disposer of HW: No

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CALIFORNIA STATE PARKS MOUNT SAN JACINTO SP (Continued)**

**1024828958**

Underground injection activity: No  
On-site burner exemption: No  
Furnace exemption: No  
Used oil fuel burner: No  
Used oil processor: No  
Used oil refiner: No  
Used oil fuel marketer to burner: No  
Used oil Specification marketer: No  
Used oil transfer facility: No  
Used oil transporter: No

Violation Status: No violations found

**B8  
SW  
1/8-1/4  
0.160 mi.  
844 ft.**

**EGANS DRY CLEANING & SNOW WHITE LAUNDRY  
54240 PINECREST  
IDYLLWILD, CA 92349**

**DRYCLEANERS S121697144  
N/A**

**Site 1 of 2 in cluster B**

**Relative:  
Lower  
Actual:  
5354 ft.**

**DRYCLEAN SOUTH COAST:**

Name: EGANS DRY CLEANING & SNOW WHITE LAUNDRY  
Address: 54240 PINECREST  
City,State,Zip: IDYLLWILD, CA 92349  
Facility ID: 2555  
Application Number: 00842E  
Permit Number: E03193  
Status: O  
Representative Name: Not reported  
Representative Telephone: Not reported  
Permit Status: INACTIVE  
BCAT Number: 000234  
BCAT Description: DRY CLEANING EQUIP PERCHLOROETHYLENE  
CCAT Number: Not reported  
CCAT Description: Not reported  
UTM East: 0  
UTM North: 0

**B9  
SW  
1/8-1/4  
0.214 mi.  
1128 ft.**

**FOREST LUMBER  
54200 PINECREST AVE  
IDYLLWILD, CA 92349**

**HIST UST U001575124  
N/A**

**Site 2 of 2 in cluster B**

**Relative:  
Lower  
Actual:  
5337 ft.**

**HIST UST:**

Name: FOREST LUMBER  
Address: 54200 PINECREST AVE  
City,State,Zip: IDYLLWILD, CA 92349  
File Number: 0001F69B  
URL: <http://geotracker.waterboards.ca.gov/ustpdfs/pdf/0001F69B.pdf>  
Region: STATE  
Facility ID: 00000017778  
Facility Type: Other  
Other Type: LUMBER CO.  
Contact Name: Not reported  
Telephone: 7146592609  
Owner Name: FOREST LUMB  
Owner Address: 54200 PINECREST AVE.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**FOREST LUMBER (Continued)**

**U001575124**

Owner City,St,Zip: IDYLLWILD, CA 92349  
Total Tanks: 0001  
  
Tank Num: 001  
Container Num: 1  
Year Installed: 1981  
Tank Capacity: 00001000  
Tank Used for: PRODUCT  
Type of Fuel: REGULAR  
Container Construction Thickness: Not reported  
Leak Detection: None

[Click here for Geo Tracker PDF:](#)

**C10**  
**WSW**  
**1/8-1/4**  
**0.219 mi.**  
**1158 ft.**

**SOUTH BAY CABLE CORP**  
**54125 MARANATHA DR**  
**IDYLLWILD, CA 92349**

**CERS HAZ WASTE**  
**HAZNET**  
**CERS**

**S113012426**  
**N/A**

**Site 1 of 2 in cluster C**

**Relative:**  
**Lower**  
  
**Actual:**  
**5337 ft.**

**CERS HAZ WASTE:**  
Name: SOUTH BAY CABLE CORP  
Address: 54125 MARANATHA DR  
City,State,Zip: IDYLLWILD, CA 92549  
Site ID: 402519  
CERS ID: 10316980  
CERS Description: Hazardous Waste Generator

**HAZNET:**

Name: SOUTH BAY CABLE CORP  
Address: 54125 MARANATHA DR  
City,State,Zip: IDYLLWILD, CA 923490000  
Year: 2016  
GEPaid: CAD982018541  
Contact: JENNIFER FEDDEMA  
Telephone: 9516592183  
Mailing Name: Not reported  
Mailing Address: PO BOX 67  
Mailing City,St,Zip: IDYLLWILD, CA 925490067  
Gen County: Riverside  
TSD EPA ID: CAT080013352  
TSD County: Los Angeles  
Tons: 2.2101  
CA Waste Code: 223-Unspecified oil-containing waste  
Method: H039-Other Recovery Of Reclamation For Reuse Including Acid  
Regeneration, Organics Recovery Ect  
Facility County: Riverside

Name: SOUTH BAY CABLE CORP  
Address: 54125 MARANATHA DR  
City,State,Zip: IDYLLWILD, CA 923490000  
Year: 2016  
GEPaid: CAD982018541  
Contact: JENNIFER FEDDEMA  
Telephone: 9516592183  
Mailing Name: Not reported  
Mailing Address: PO BOX 67



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SOUTH BAY CABLE CORP (Continued)**

**S113012426**

Mailing City,St,Zip: IDYLLWILD, CA 925490067  
Gen County: Riverside  
TSD EPA ID: CAT080013352  
TSD County: Los Angeles  
Tons: 0.522  
CA Waste Code: 214-Unspecified solvent mixture  
Method: H039-Other Recovery Of Reclamation For Reuse Including Acid  
Regeneration, Organics Recovery Ect  
Facility County: Riverside

Name: SOUTH BAY CABLE CORP  
Address: 54125 MARANATHA DR  
City,State,Zip: IDYLLWILD, CA 923490000  
Year: 2016  
GEPaid: CAD982018541  
Contact: JENNIFER FEDDEMA  
Telephone: 9516592183  
Mailing Name: Not reported  
Mailing Address: PO BOX 67  
Mailing City,St,Zip: IDYLLWILD, CA 925490067  
Gen County: Riverside  
TSD EPA ID: AZR000501510  
TSD County: 99  
Tons: 0.15  
CA Waste Code: 223-Unspecified oil-containing waste  
Method: H141-Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery  
(H010-H129) Or (H131-H135)  
Facility County: Riverside

Name: SOUTH BAY CABLE CORP  
Address: 54125 MARANATHA DR  
City,State,Zip: IDYLLWILD, CA 923490000  
Year: 2014  
GEPaid: CAD982018541  
Contact: JENNIFER FEDDEMA/PRODN CONTROL  
Telephone: 9516592183  
Mailing Name: Not reported  
Mailing Address: PO BOX 67  
Mailing City,St,Zip: IDYLLWILD, CA 925490067  
Gen County: Riverside  
TSD EPA ID: CAT080013352  
TSD County: Los Angeles  
Tons: 1.14675  
CA Waste Code: 223-Unspecified oil-containing waste  
Method: H039-Other Recovery Of Reclamation For Reuse Including Acid  
Regeneration, Organics Recovery Ect  
Facility County: Riverside

Name: SOUTH BAY CABLE CORP  
Address: 54125 MARANATHA DR  
City,State,Zip: IDYLLWILD, CA 923490000  
Year: 2014  
GEPaid: CAD982018541  
Contact: JENNIFER FEDDEMA/PRODN CONTROL  
Telephone: 9516592183  
Mailing Name: Not reported  
Mailing Address: PO BOX 67

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SOUTH BAY CABLE CORP (Continued)**

**S113012426**

Mailing City,St,Zip: IDYLLWILD, CA 925490067  
Gen County: Riverside  
TSD EPA ID: CAT080013352  
TSD County: Los Angeles  
Tons: 0.396  
CA Waste Code: 214-Unspecified solvent mixture  
Method: H039-Other Recovery Of Reclamation For Reuse Including Acid  
Regeneration, Organics Recovery Ect  
Facility County: Riverside

[Click this hyperlink](#) while viewing on your computer to access  
75 additional CA\_HAZNET: record(s) in the EDR Site Report.

**CERS:**

Name: SOUTH BAY CABLE CORP  
Address: 54125 MARANATHA DR  
City,State,Zip: IDYLLWILD, CA 92549  
Site ID: 402519  
CERS ID: 10316980  
CERS Description: Chemical Storage Facilities

**Evaluation:**

Eval General Type: Compliance Evaluation Inspection  
Eval Date: 12-01-2015  
Violations Found: No  
Eval Type: Routine done by local agency  
Eval Notes: Not reported  
Eval Division: Riverside County Department of Env Health  
Eval Program: HMRRP  
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection  
Eval Date: 12-01-2015  
Violations Found: No  
Eval Type: Routine done by local agency  
Eval Notes: Not reported  
Eval Division: Riverside County Department of Env Health  
Eval Program: HW  
Eval Source: CERS

**Affiliation:**

Affiliation Type Desc: CUPA District  
Entity Name: Riverside Cnty Env Health  
Entity Title: Not reported  
Affiliation Address: 4065 County Circle Drive, Room 104  
Affiliation City: Riverside  
Affiliation State: CA  
Affiliation Country: Not reported  
Affiliation Zip: 92503  
Affiliation Phone: (951) 358-5055

Affiliation Type Desc: Environmental Contact  
Entity Name: Jennifer Feddema  
Entity Title: Not reported  
Affiliation Address: PO Box 67  
Affiliation City: Idyllwild  
Affiliation State: CA

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SOUTH BAY CABLE CORP (Continued)**

**S113012426**

Affiliation Country:	Not reported
Affiliation Zip:	92549
Affiliation Phone:	Not reported
Affiliation Type Desc:	Document Preparer
Entity Name:	Jennifer A Feddema
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Operator
Entity Name:	Kenneth W Cripe
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(951) 659-2183
Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	PO Box 67
Affiliation City:	Idyllwild
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92549-0069
Affiliation Phone:	Not reported
Affiliation Type Desc:	Identification Signer
Entity Name:	Jennifer A Feddema
Entity Title:	Production Control
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Parent Corporation
Entity Name:	South Bay Cable Corp
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Legal Owner
Entity Name:	Gordon Brown
Entity Title:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**SOUTH BAY CABLE CORP (Continued)**

**S113012426**

Affiliation Address: PO Box 67  
Affiliation City: Idyllwild  
Affiliation State: CA  
Affiliation Country: United States  
Affiliation Zip: 92549-0069  
Affiliation Phone: (951) 659-2183

**C11**  
**WSW**  
**1/8-1/4**  
**0.219 mi.**  
**1158 ft.**

**CONSOLIDATED PRODUCTS CORP**

**RCRA-SQG**

**1000383947**  
**CAD982018541**

**54125 MARANATHA DR**  
**IDYLLWILD, CA 92549**

**Site 2 of 2 in cluster C**

**Relative:**  
**Lower**  
**Actual:**  
**5337 ft.**

RCRA-SQG:  
Date form received by agency: 07/30/1987  
Facility name: CONSOLIDATED PRODUCTS CORP  
Facility address: 54125 MARANATHA DR  
IDYLLWILD, CA 92549  
EPA ID: CAD982018541  
Mailing address: PO SIXTY SEVENTH  
IDYLLWILD, CA 92349  
Contact: ENVIRONMENTAL MANAGER  
Contact address: 54125 MARANATHA DR  
IDYLLWILD, CA 92349  
Contact country: US  
Contact telephone: 714-659-2183  
Contact email: Not reported  
EPA Region: 09  
Classification: Small Small Quantity Generator  
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

**Owner/Operator Summary:**

Owner/operator name: BROWN GORDON  
Owner/operator address: NOT REQUIRED  
NOT REQUIRED, ME 99999  
Owner/operator country: Not reported  
Owner/operator telephone: 415-555-1212  
Owner/operator email: Not reported  
Owner/operator fax: Not reported  
Owner/operator extension: Not reported  
Legal status: Private  
Owner/Operator Type: Owner  
Owner/Op start date: Not reported  
Owner/Op end date: Not reported  
  
Owner/operator name: NOT REQUIRED  
Owner/operator address: NOT REQUIRED  
NOT REQUIRED, ME 99999  
Owner/operator country: Not reported  
Owner/operator telephone: 415-555-1212  
Owner/operator email: Not reported  
Owner/operator fax: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**CONSOLIDATED PRODUCTS CORP (Continued)**

**1000383947**

Owner/operator extension: Not reported  
Legal status: Private  
Owner/Operator Type: Operator  
Owner/Op start date: Not reported  
Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No  
Mixed waste (haz. and radioactive): No  
Recycler of hazardous waste: No  
Transporter of hazardous waste: No  
Treater, storer or disposer of HW: No  
Underground injection activity: No  
On-site burner exemption: No  
Furnace exemption: No  
Used oil fuel burner: No  
Used oil processor: No  
User oil refiner: No  
Used oil fuel marketer to burner: No  
Used oil Specification marketer: No  
Used oil transfer facility: No  
Used oil transporter: No

Violation Status: No violations found

**D12**  
**SW**  
**1/8-1/4**  
**0.234 mi.**  
**1235 ft.**

**IDYLLWILD AUTO**  
**54170 PINECREST**  
**IDYLLWILD, CA 92549**  
**Site 1 of 2 in cluster D**

**RCRA NonGen / NLR** **1024854139**  
**CAL000414694**

**Relative:**  
**Lower**  
**Actual:**  
**5332 ft.**

RCRA NonGen / NLR:  
Date form received by agency: 02/29/2016  
Facility name: IDYLLWILD AUTO  
Facility address: 54170 PINECREST  
IDYLLWILD, CA 92549  
EPA ID: CAL000414694  
Mailing address: PO BOX 972  
IDYLLWILD, CA 92549  
Contact: DAVID SCHNALZER  
Contact address: PO BOX 972  
IDYLLWILD, CA 92549  
Contact country: Not reported  
Contact telephone: 909-908-0402  
Contact email: SCHNALZERELECTRIC@GMAIL.COM  
EPA Region: 09  
Classification: Non-Generator  
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name: DAVID SCHNALZER  
Owner/operator address: PO BOX 972  
IDYLLWILD, CA 92549  
Owner/operator country: Not reported  
Owner/operator telephone: 909-908-0402  
Owner/operator email: Not reported  
Owner/operator fax: Not reported  
Owner/operator extension: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**IDYLLWILD AUTO (Continued)**

**1024854139**

Legal status: Other  
Owner/Operator Type: Operator  
Owner/Op start date: Not reported  
Owner/Op end date: Not reported

Owner/operator name: DAVID SCHNALZER  
Owner/operator address: PO BOX 972  
IDYLLWILD, CA 92549

Owner/operator country: Not reported  
Owner/operator telephone: 909-908-0402  
Owner/operator email: Not reported  
Owner/operator fax: Not reported  
Owner/operator extension: Not reported

Legal status: Other  
Owner/Operator Type: Owner  
Owner/Op start date: Not reported  
Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No  
Mixed waste (haz. and radioactive): No  
Recycler of hazardous waste: No  
Transporter of hazardous waste: Yes  
Treater, storer or disposer of HW: No  
Underground injection activity: No  
On-site burner exemption: No  
Furnace exemption: No  
Used oil fuel burner: No  
Used oil processor: No  
User oil refiner: No  
Used oil fuel marketer to burner: No  
Used oil Specification marketer: No  
Used oil transfer facility: No  
Used oil transporter: No

Violation Status: No violations found

D13  
SW  
1/8-1/4  
0.234 mi.  
1235 ft.

**IDYLLWILD AUTOMOTIVE**  
**54170 PINE CREST AVE**  
**IDYLLWILD, CA 92549**  
**Site 2 of 2 in cluster D**

**HAULERS S120064902**  
**CERS HAZ WASTE N/A**

**Relative:**  
**Lower**

**HAULERS:**  
Name: IDYLLWILD AUTOMOTIVE  
Address: 54170 PINE CREST AVENUE  
City: IDYLLWILD  
Facility ID: 1864157  
Facility Phone: (951) 659-9880  
Business Email Address: Not reported  
Contact Person: David Schnalzer, Carli Nicols  
Mailing Address: P.O. Box 972  
Mailing City: Idyllwild  
Mailing State: CA  
Mailing Zip: 92549  
Mailing County: Riverside  
Mailing Phone: (951) 659-9880  
Waste Tire Permit Summary: No Permit record for this business.

**Actual:**  
**5332 ft.**

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**IDYLLWILD AUTOMOTIVE (Continued)**

**S120064902**

**CERS HAZ WASTE:**

Name: IDYLLWILD AUTOMOTIVE  
Address: 54170 PINE CREST AVE  
City,State,Zip: IDYLLWILD, CA 92549  
Site ID: 123825  
CERS ID: 10317178  
CERS Description: Hazardous Waste Generator

**Violations:**

Site ID: 123825  
Site Name: Idyllwild Automotive  
Violation Date: 06-02-2017  
Citation: 40 CFR 1 262.34(d)(5)(ii) - U.S. Code of Federal Regulations, Title 40, Chapter 1, Section(s) 262.34(d)(5)(ii)  
Violation Description: Failure to post the following information next to the telephone: (A) The name and telephone number of the emergency coordinator; (B) Location of fire extinguishers and spill control material, and, if present, fire alarm; and (C) The telephone number of the fire department, unless the facility has a direct alarm.  
Violation Notes: Returned to compliance on 07/11/2017.  
Violation Division: Riverside County Department of Env Health  
Violation Program: HW  
Violation Source: CERS

Site ID: 123825  
Site Name: Idyllwild Automotive  
Violation Date: 06-02-2017  
Citation: 40 CFR 1 262.34(d)(5)(iii) - U.S. Code of Federal Regulations, Title 40, Chapter 1, Section(s) 262.34(d)(5)(iii)  
Violation Description: Failure to ensure that all employees are thoroughly familiar with proper waste handling and emergency procedures, relevant to their responsibilities during normal facility operations and emergencies.  
Violation Notes: Returned to compliance on 07/11/2017.  
Violation Division: Riverside County Department of Env Health  
Violation Program: HW  
Violation Source: CERS

Site ID: 123825  
Site Name: Idyllwild Automotive  
Violation Date: 06-02-2017  
Citation: 22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)  
Violation Description: Failure to properly label hazardous waste accumulation containers and portable tanks with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date.  
Violation Notes: Returned to compliance on 07/11/2017.  
Violation Division: Riverside County Department of Env Health  
Violation Program: HW  
Violation Source: CERS

Site ID: 123825  
Site Name: Idyllwild Automotive  
Violation Date: 06-02-2017  
Citation: Un-Specified  
Violation Description: Hazardous Waste Generator Program - Administration/Documentation -

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**IDYLLWILD AUTOMOTIVE (Continued)**

**S120064902**

Violation Notes: General Local Ordinance  
Returned to compliance on 07/11/2017.  
Violation Division: Riverside County Department of Env Health  
Violation Program: HW  
Violation Source: CERS

Evaluation:  
Eval General Type: Compliance Evaluation Inspection  
Eval Date: 06-02-2017  
Violations Found: Yes  
Eval Type: Routine done by local agency  
Eval Notes: Not reported  
Eval Division: Riverside County Department of Env Health  
Eval Program: HW  
Eval Source: CERS

Eval General Type: Other/Unknown  
Eval Date: 07-11-2017  
Violations Found: No  
Eval Type: Other, not routine, done by local agency  
Eval Notes: Not reported  
Eval Division: Riverside County Department of Env Health  
Eval Program: HW  
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection  
Eval Date: 11-05-2015  
Violations Found: No  
Eval Type: Routine done by local agency  
Eval Notes: Not reported  
Eval Division: Riverside County Department of Env Health  
Eval Program: HW  
Eval Source: CERS

Affiliation:  
Affiliation Type Desc: Parent Corporation  
Entity Name: Idyllwild Automotive  
Entity Title: Not reported  
Affiliation Address: Not reported  
Affiliation City: Not reported  
Affiliation State: Not reported  
Affiliation Country: Not reported  
Affiliation Zip: Not reported  
Affiliation Phone: Not reported

Affiliation Type Desc: CUPA District  
Entity Name: Riverside Cnty Env Health  
Entity Title: Not reported  
Affiliation Address: 4065 County Circle Drive, Room 104  
Affiliation City: Riverside  
Affiliation State: CA  
Affiliation Country: Not reported  
Affiliation Zip: 92503  
Affiliation Phone: (951) 358-5055

Affiliation Type Desc: Facility Mailing Address



Map ID  
 Direction  
 Distance  
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
 EPA ID Number

**IDYLLWILD AUTOMOTIVE (Continued)**

**S120064902**

Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	PO Box 126
Affiliation City:	Mountain Center
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92561
Affiliation Phone:	Not reported

**14**  
**SSW**  
**1/4-1/2**  
**0.280 mi.**  
**1476 ft.**

**VILLAGE FOOD AND FUEL**  
**26128 HWY 243**  
**IDYLLWILD, CA 92349**

**LUST** **S104970869**  
**HIST CORTESE** **N/A**  
**CERS**

**Relative:**  
**Lower**  
**Actual:**  
**5334 ft.**

**LUST:**

Name:	VILLAGE FOOD AND FUEL
Address:	26128 HIGHWAY 243
City,State,Zip:	IDYLLWILD, CA 92349
Lead Agency:	RIVERSIDE COUNTY LOP
Case Type:	LUST Cleanup Site
Geo Track:	<a href="http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0606500511">http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0606500511</a>
Global Id:	T0606500511
Latitude:	33.7446128946574
Longitude:	-116.715132437068
Status:	Completed - Case Closed
Status Date:	12/05/2014
Case Worker:	Not reported
RB Case Number:	083303114T
Local Agency:	Not reported
File Location:	Local Agency
Local Case Number:	971090
Potential Media Affect:	Aquifer used for drinking water supply
Potential Contaminants of Concern:	Gasoline
Site History:	<p>***Data prior to 2005 does not appear in GeoTracker. Consult agency file for all site data*** 3 tanks pulled 9/4/97. Samples under tanks showed TPH contamination. Tank #1 turbine end -3,700 ppm at 12' bgs. Soil sampled under dispensers. 2 samples hot. #4-2800ppm TPH, 2.5 ppm MBTE; #5-1600 ppm TPH, 4.3 ppm MTBE. One well installed 11/16/1998. Well screened from 1-40. 2 additional wells, MW-2 and MW-3, were installed in 1999. 4th well, MW-4, was installed in 2000. Free product detected in well 1 in September 2000. Passive floating skimmer installed. Well 1 no longer had free product 3/13/2003. One well, MW-5, was installed off-site to the south of Ridge View Drive May 8, 2006 . 5 wells, MW-7-MW-9, MW-11 and MW-12 were drilled off-site to the south of Ridge View Drive March 13 and 14, 2008. 2 SVE wells installed August 22, 2007. The wells were screened from 10-23. Up to 3030 ppm TPHg was found in the soil sample from SVE-1. Up to 0.185 ppm benzene, 2.54 ppm MTBE. SVE-2 had up to 1460 ppm TPHG, ND benzene and MTBE, 0.637 ppm TBA. SVE system began August 30, 2007 using wells MW-1, SVE-1, SVE-2 and MW-4.and run until April 28, 2008 when the water table rose. 3123 lbs of hydrocarbons were removed. SVE-1 and MW-4 were ND for TPHg and SVE-2 TPHg went from ND to 17 ppmv when system was shut down. 2 additional off-site wells, MW-6 and MW-10, were installed to the west of Hwy. 243 on September 18, 2008. MW-13 was drilled across Hwy-243 from the site on March 18, 2009. MW-13 is cross gradient to the site. MW-15 was drilled across</p>

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**VILLAGE FOOD AND FUEL (Continued)**

**S104970869**

Hwy-243 from the site on September 11, 2009. The well is up gradient to the site and immediately downgradient of the Chevron station in Idyllwild. The well had a high of 10600 ppb MTBE which was suspected to be from the Chevron station. SVE Remediation: August 2007 to April 2008 Following the installation of two vapor extraction wells (SVE-1 and SVE-2 screened from 10 to 23 ft bg) in the vicinity of the former USTs, a SVE system operated at the site extracting from wells MW-1, SVE-1, SVE-2, and MW-4. The SVE system was shut-down due April 28, 2008 due to poor recovery rates and rising GW conditions covering the well screens. A total of 2858.46 lbs of TPHg, 4.01 lbs of benzene, 84.27 lbs of toluene, 28.75 lbs of ethylbenzene, 150.85 lbs of xylenes, 5.89 lbs of MTBE and 0.28 lbs of TAME were removed from the site by SVE. Soil verification: October 2012 - Four confirmation soil borings (B-1 through B-4) were drilled to 31 feet and soil samples were collected every 5 ft. GW was encountered at approximately 22 ft in the boreholes. All samples from all borings above the capillary fringe (20 ft) were non-detect for all constituents tested (8015/8260 full scan). The highest concentrations were detected in B-3 at 25 ft bg: 208 ppm TPHg, ND<1 ppm B, 2.54 ppm T, 3.20 ppm E, 25.06 ppm X, ND<1 ppm MTBE, 2.85 naphthalene, 23.6 ppm 1,2,4-TMB, and 6.1 ppm 1,3,5-TMB. GW in the vicinity of this site has been sampled regularly since 1999. On-site well MW-1 had accumulations (up to 2.64 inches) of LPH product in 2000. On-site and downgradient GW conditions have since improved to the current (9/2013 and 12/2/2013) maximum concentrations of: 540 ppb TPH (MW-1), 1.62 ppb B (MW-4), <1 ppb T (all), <1 ppb E (all), <3 ppb X (all), 1430 ppb MTBE (MW-10), and ND<2500 ppb TBA (all). Impacts in off-site wells MW-6, MW-7, MW-10, MW-11, MW-13, and MW-15 currently (9/2013) have concentrations up to 1430 ppb (MW-10) MTBE and this has been shown to be associated with the Idyllwild Chevron located approximately 160 ft north (up-gradient) of this site. Ownership of these wells will be transferred to the Idyllwild Chevron and they will utilize these wells for monitoring purposes. GW analytical data from wells MW-1 through MW-13 showed elevated BTXE and MTBE impacts near the UST cavity (MW-1) and off-site impacts were primarily oxygenates (MTBE). Concentrations at and down-gradient of the site (south of Hwy 243) showed decreased concentrations downgradient to the south (downslope toward Strawberry Creek). Cross-gradient and up-gradient wells located north of Hwy 243 had higher MTBE concentrations (up to 9240 ppb in MW-10 and up to 8790 ppb in MW-13) than wells located south of the highway. This suggested there may be an off-site source contributing to the impacts MTBE. April & June 2013 Eight GW monitoring wells were installed at the Chevron station located upgradient of the site. Elevated concentrations of BTXE and MTBE were detected in the GW downgradient of the Chevron USTs. It was determined that a release had taken place at the Chevron station and GW impacts cross- and up-gradient from the Village Food and Fuel station were attributed to the Chevron station. In August 2014, wells MW-6, MW-10, MW-13 and MW-15 are transferred from Village Food and Fuel to Idyllwild Chevron who will be responsible for maintaining, sampling and eventually destruction of the wells. 11/20/2014 RCDEH received report documenting destruction of Monitoring Wells MW-1 through MW-5, MW-8, MW-9, and MW-12 on August 28 and 29, 2014 by pressure grouting. The waste was removed October 27, 2014 and taken to Filter Recycling Services, Inc. RCDEH issued NFA/closure letter dated 12/5/2014

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

VILLAGE FOOD AND FUEL (Continued)

S104970869

LUST:

Global Id: T0606500511  
Contact Type: Regional Board Caseworker  
Contact Name: NANCY OLSON-MARTIN  
Organization Name: SANTA ANA RWQCB (REGION 8)  
Address: 3737 MAIN STREET, SUITE 500  
City: RIVERSIDE  
Email: nolson-martin@waterboards.ca.gov  
Phone Number: Not reported

LUST:

Global Id: T0606500511  
Action Type: ENFORCEMENT  
Date: 06/02/2009  
Action: Staff Letter - #RCDEH060209

Global Id: T0606500511  
Action Type: ENFORCEMENT  
Date: 02/18/2014  
Action: LOP Case Closure Summary to RB

Global Id: T0606500511  
Action Type: RESPONSE  
Date: 07/13/2009  
Action: Well Installation Workplan

Global Id: T0606500511  
Action Type: ENFORCEMENT  
Date: 08/04/2009  
Action: Staff Letter - #Riv Co 080409

Global Id: T0606500511  
Action Type: ENFORCEMENT  
Date: 12/03/2009  
Action: Staff Letter - #RCDEH 120309

Global Id: T0606500511  
Action Type: ENFORCEMENT  
Date: 12/05/2014  
Action: Closure/No Further Action Letter - #RCDEH closure docs

Global Id: T0606500511  
Action Type: ENFORCEMENT  
Date: 04/11/2014  
Action: Notification - Public Notice of Case Closure - #RCDEH public notice

Global Id: T0606500511  
Action Type: ENFORCEMENT  
Date: 04/11/2014  
Action: Staff Letter - #RCDEH 041114

Global Id: T0606500511  
Action Type: ENFORCEMENT  
Date: 02/06/2014  
Action: Clean Up Fund - Case Closure Review Summary Report (RSR)

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

VILLAGE FOOD AND FUEL (Continued)

S104970869

Global Id: T0606500511  
Action Type: RESPONSE  
Date: 01/18/2010  
Action: Soil and Water Investigation Workplan - Addendum

Global Id: T0606500511  
Action Type: RESPONSE  
Date: 04/15/2010  
Action: Monitoring Report - Annually

Global Id: T0606500511  
Action Type: RESPONSE  
Date: 07/15/2010  
Action: Monitoring Report - Quarterly

Global Id: T0606500511  
Action Type: RESPONSE  
Date: 10/15/2010  
Action: Monitoring Report - Quarterly

Global Id: T0606500511  
Action Type: RESPONSE  
Date: 10/15/2009  
Action: Monitoring Report - Quarterly

Global Id: T0606500511  
Action Type: RESPONSE  
Date: 01/15/2010  
Action: Monitoring Report - Quarterly

Global Id: T0606500511  
Action Type: RESPONSE  
Date: 07/02/2014  
Action: Verbal Communication

Global Id: T0606500511  
Action Type: Other  
Date: 10/27/1997  
Action: Leak Discovery

Global Id: T0606500511  
Action Type: RESPONSE  
Date: 01/15/2011  
Action: Monitoring Report - Quarterly

Global Id: T0606500511  
Action Type: RESPONSE  
Date: 04/15/2011  
Action: Monitoring Report - Annually

Global Id: T0606500511  
Action Type: ENFORCEMENT  
Date: 04/18/2008  
Action: File review

Global Id: T0606500511  
Action Type: RESPONSE

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**VILLAGE FOOD AND FUEL (Continued)**

**S104970869**

Date: 07/15/2011  
Action: Monitoring Report - Quarterly

Global Id: T0606500511  
Action Type: RESPONSE  
Date: 01/15/2012  
Action: Monitoring Report - Quarterly

Global Id: T0606500511  
Action Type: RESPONSE  
Date: 10/15/2011  
Action: Monitoring Report - Quarterly

Global Id: T0606500511  
Action Type: ENFORCEMENT  
Date: 05/18/2007  
Action: File review

Global Id: T0606500511  
Action Type: ENFORCEMENT  
Date: 05/07/2007  
Action: Staff Letter - #050707

Global Id: T0606500511  
Action Type: ENFORCEMENT  
Date: 01/07/2008  
Action: File review

Global Id: T0606500511  
Action Type: ENFORCEMENT  
Date: 06/25/2007  
Action: Staff Letter - #062507

Global Id: T0606500511  
Action Type: ENFORCEMENT  
Date: 12/04/2014  
Action: File review - #RCDEH upload site file 9/15/2015

Global Id: T0606500511  
Action Type: Other  
Date: 09/04/1997  
Action: Leak Stopped

Global Id: T0606500511  
Action Type: RESPONSE  
Date: 08/16/2012  
Action: Other Workplan

Global Id: T0606500511  
Action Type: RESPONSE  
Date: 04/15/2012  
Action: Monitoring Report - Annually

Global Id: T0606500511  
Action Type: RESPONSE  
Date: 09/09/1999  
Action: Well Installation Report

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

VILLAGE FOOD AND FUEL (Continued)

S104970869

Global Id:	T0606500511
Action Type:	RESPONSE
Date:	07/15/2012
Action:	Monitoring Report - Quarterly
Global Id:	T0606500511
Action Type:	RESPONSE
Date:	12/16/1998
Action:	Well Installation Report
Global Id:	T0606500511
Action Type:	RESPONSE
Date:	01/06/1998
Action:	Preliminary Site Assessment Workplan
Global Id:	T0606500511
Action Type:	RESPONSE
Date:	11/19/2012
Action:	Remedial Progress Report
Global Id:	T0606500511
Action Type:	RESPONSE
Date:	02/06/2014
Action:	Request for Closure - Regulator Responded
Global Id:	T0606500511
Action Type:	REMEDIATION
Date:	09/24/1997
Action:	Excavation
Global Id:	T0606500511
Action Type:	REMEDIATION
Date:	02/15/2001
Action:	Free Product Removal
Global Id:	T0606500511
Action Type:	REMEDIATION
Date:	08/13/2007
Action:	Soil Vapor Extraction (SVE)
Global Id:	T0606500511
Action Type:	ENFORCEMENT
Date:	10/11/2007
Action:	File review
Global Id:	T0606500511
Action Type:	ENFORCEMENT
Date:	07/13/2007
Action:	File review
Global Id:	T0606500511
Action Type:	RESPONSE
Date:	10/15/2012
Action:	Monitoring Report - Quarterly
Global Id:	T0606500511
Action Type:	ENFORCEMENT

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**VILLAGE FOOD AND FUEL (Continued)**

**S104970869**

Date: 09/17/2012  
Action: Staff Letter - #RCDEH 091712

Global Id: T0606500511  
Action Type: ENFORCEMENT  
Date: 06/04/2012  
Action: Staff Letter - #RCDEH 060412

Global Id: T0606500511  
Action Type: Other  
Date: 12/04/1997  
Action: Leak Reported

Global Id: T0606500511  
Action Type: RESPONSE  
Date: 07/10/2007  
Action: Other Report / Document

Global Id: T0606500511  
Action Type: RESPONSE  
Date: 06/22/2007  
Action: Other Workplan

Global Id: T0606500511  
Action Type: RESPONSE  
Date: 05/15/2007  
Action: Monitoring Report - Quarterly

Global Id: T0606500511  
Action Type: RESPONSE  
Date: 08/15/2007  
Action: Monitoring Report - Quarterly

Global Id: T0606500511  
Action Type: RESPONSE  
Date: 11/15/2007  
Action: Monitoring Report - Quarterly

Global Id: T0606500511  
Action Type: RESPONSE  
Date: 01/15/2013  
Action: Monitoring Report - Quarterly

Global Id: T0606500511  
Action Type: RESPONSE  
Date: 07/15/2013  
Action: Monitoring Report - Quarterly

Global Id: T0606500511  
Action Type: RESPONSE  
Date: 04/15/2013  
Action: Monitoring Report - Annually

Global Id: T0606500511  
Action Type: RESPONSE  
Date: 08/23/2013  
Action: Well Destruction Report

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

VILLAGE FOOD AND FUEL (Continued)

S104970869

Global Id: T0606500511  
Action Type: ENFORCEMENT  
Date: 08/09/2007  
Action: Staff Letter - #080907

Global Id: T0606500511  
Action Type: ENFORCEMENT  
Date: 07/03/2008  
Action: File review

Global Id: T0606500511  
Action Type: ENFORCEMENT  
Date: 08/19/2008  
Action: File review

Global Id: T0606500511  
Action Type: ENFORCEMENT  
Date: 10/29/2008  
Action: File review

Global Id: T0606500511  
Action Type: ENFORCEMENT  
Date: 07/10/2008  
Action: Staff Letter - #071008

Global Id: T0606500511  
Action Type: ENFORCEMENT  
Date: 11/20/2008  
Action: Staff Letter - #RCDEH112008

Global Id: T0606500511  
Action Type: ENFORCEMENT  
Date: 06/06/2013  
Action: Staff Letter - #RCDEH 060613

Global Id: T0606500511  
Action Type: ENFORCEMENT  
Date: 09/13/2012  
Action: Technical Correspondence / Assistance / Other - #RCDEH 091312

Global Id: T0606500511  
Action Type: RESPONSE  
Date: 01/09/2009  
Action: Well Installation Workplan

Global Id: T0606500511  
Action Type: RESPONSE  
Date: 09/17/2007  
Action: Other Report / Document

Global Id: T0606500511  
Action Type: RESPONSE  
Date: 10/15/2013  
Action: Monitoring Report - Quarterly

Global Id: T0606500511  
Action Type: RESPONSE



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

VILLAGE FOOD AND FUEL (Continued)

S104970869

Date: 01/15/2014  
Action: Monitoring Report - Quarterly

Global Id: T0606500511  
Action Type: ENFORCEMENT  
Date: 01/12/2009  
Action: File review

Global Id: T0606500511  
Action Type: ENFORCEMENT  
Date: 01/16/2009  
Action: Staff Letter - #RCDEH011609

Global Id: T0606500511  
Action Type: ENFORCEMENT  
Date: 12/04/2014  
Action: File review - #RCDEH site summary

Global Id: T0606500511  
Action Type: RESPONSE  
Date: 04/10/2009  
Action: Well Installation Report

Global Id: T0606500511  
Action Type: RESPONSE  
Date: 08/25/2008  
Action: Well Installation Report

Global Id: T0606500511  
Action Type: RESPONSE  
Date: 08/18/2014  
Action: Well Destruction Report

Global Id: T0606500511  
Action Type: RESPONSE  
Date: 05/09/2014  
Action: Other Report / Document

LUST:

Global Id: T0606500511  
Status: Open - Case Begin Date  
Status Date: 09/04/1997

Global Id: T0606500511  
Status: Open - Site Assessment  
Status Date: 01/07/1998

Global Id: T0606500511  
Status: Open - Remediation  
Status Date: 02/15/2001

Global Id: T0606500511  
Status: Open - Verification Monitoring  
Status Date: 02/15/2001

Global Id: T0606500511  
Status: Open - Eligible for Closure

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

VILLAGE FOOD AND FUEL (Continued)

S104970869

Status Date: 04/11/2014  
Global Id: T0606500511  
Status: Completed - Case Closed  
Status Date: 12/05/2014

LUST REG 8:

Name: VILLAGE FOOD AND FUEL  
Address: 26128 HWY 243  
City: IDYLLWILD  
Region: 8  
County: Riverside  
Regional Board: Santa Ana Region  
Facility Status: Pollution Characterization  
Case Number: 083303114T  
Local Case Num: 971090  
Case Type: Aquifer affected  
Substance: Gasoline  
Qty Leaked: Not reported  
Abate Method: EDFP  
Cross Street: RIDGEVIEW  
Enf Type: Not reported  
Funding: Not reported  
How Discovered: Not reported  
How Stopped: Not reported  
Leak Cause: Not reported  
Leak Source: Not reported  
Global ID: T0606500511  
How Stopped Date: Not reported  
Enter Date: 2/11/1998  
Date Confirmation of Leak Began: Not reported  
Date Preliminary Assessment Began: 5/6/1999  
Discover Date: 9/4/1997  
Enforcement Date: Not reported  
Close Date: Not reported  
Date Prelim Assessment Workplan Submitted: Not reported  
Date Pollution Characterization Began: 2/17/2000  
Date Remediation Plan Submitted: Not reported  
Date Remedial Action Underway: Not reported  
Date Post Remedial Action Monitoring: Not reported  
Enter Date: 2/11/1998  
GW Qualifies: =  
Soil Qualifies: Not reported  
Operator: Not reported  
Facility Contact: Not reported  
Interim: Yes  
Oversite Program: LUST  
Latitude: 33.7442127  
Longitude: -116.7157458  
MTBE Date: 7/29/2000  
Max MTBE GW: 2800  
MTBE Concentration: 1  
Max MTBE Soil: Not reported  
MTBE Fuel: 1  
MTBE Tested: MTBE Detected. Site tested for MTBE & MTBE detected  
MTBE Class: A

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**VILLAGE FOOD AND FUEL (Continued)**

**S104970869**

Staff: NOM  
Staff Initials: Not reported  
Lead Agency: Local Agency  
Local Agency: 33000L  
Hydr Basin #: UNNAMED BASIN  
Beneficial: Not reported  
Priority: Not reported  
Cleanup Fund Id: Not reported  
Work Suspended: Not reported  
Summary: Not reported

**RIVERSIDE CO. LUST:**

Name: VILLAGE FOOD AND FUEL  
Address: 26128 HWY 243  
City,State,Zip: IDYLLWILD, CA  
Region: RIVERSIDE  
Facility ID: 971090  
Employee: Shurlow-LOP  
Site Closed: Yes  
Case Type: Drinking Water Aquifer affected  
Facility Status: closed/action completed  
Casetype Decode: An Aquifer used for Drinking Water supply has been contaminated.  
Fstatus Decode: Closed/Action completed

**HIST CORTESE:**

edr\_fname: VILLAGE FOOD AND FUEL  
edr\_fadd1: 26128  
City,State,Zip: IDYLLWILD, CA 92349  
Region: CORTESE  
Facility County Code: 33  
Reg By: LTNKA  
Reg Id: 083303114T

**CERS:**

Name: VILLAGE FOOD AND FUEL  
Address: 26128 HIGHWAY 243  
City,State,Zip: IDYLLWILD, CA 92349  
Site ID: 237203  
CERS ID: T0606500511  
CERS Description: Leaking Underground Storage Tank Cleanup Site

**Affiliation:**

Affiliation Type Desc: Regional Board Caseworker  
Entity Name: NANCY OLSON-MARTIN - SANTA ANA RWQCB (REGION 8)  
Entity Title: Not reported  
Affiliation Address: 3737 MAIN STREET, SUITE 500  
Affiliation City: RIVERSIDE  
Affiliation State: CA  
Affiliation Country: Not reported  
Affiliation Zip: Not reported  
Affiliation Phone: Not reported

MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Site

Database(s)

EDR ID Number  
EPA ID Number

**15**  
**WNW**  
**1/2-1**  
**0.623 mi.**  
**3292 ft.**

**IDYLLWILD CHEVRON #2529**  
**25015 HIGHWAY 243**  
**IDYLLWILD, CA 92549**

**LUST** **S103066246**  
**CPS-SLIC** **N/A**  
**Cortese**  
**HIST CORTESE**  
**Notify 65**

**Relative:**  
**Higher**

LUST:

**Actual:**  
**5616 ft.**

Name: IDYLLWILD CHEVRON  
Address: 25015 HWY. 243  
City,State,Zip: IDYLLWILD, CA 92549  
Lead Agency: SANTA ANA RWQCB (REGION 8)  
Case Type: LUST Cleanup Site  
Geo Track: [http://geotracker.waterboards.ca.gov/profile\\_report.asp?global\\_id=T10000001758](http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T10000001758)  
Global Id: T10000001758  
Latitude: 33.7454676001062  
Longitude: -116.714732050896  
Status: Open - Site Assessment  
Status Date: 01/19/2010  
Case Worker: NOM  
RB Case Number: 083303997T  
Local Agency: Not reported  
File Location: Local Agency  
Local Case Number: 201032578  
Potential Media Affect: Aquifer used for drinking water supply, Soil  
Potential Contaminants of Concern: MTBE / TBA / Other Fuel Oxygenates, Gasoline  
Site History: During 1995, one 10-000-gallon gasoline underground storage tank (UST), two 4,000-gallon gasoline USTs, one 2,000-gallon diesel UST, one 550-gallon waste oil UST, two 1,000 gallon USTs (contents unknown), and one 500-gallon UST (contents unknown) were removed from the site under the direction of the County of Riverside Department of Environmental Health (CRDEH). Soil samples collected during the removal of the above USTs indicated soil concentrations of total petroleum hydrocarbon as gasoline (TPH-g) up to 290 mg/Kg, TPH as diesel (TPH-d) up to 440 mgKg, benzene (to 0.92 mg/Kg), toluene (to 19 mg/Kg), ethylbenzene (to 14 mg/Kg), xylenes (to 40 mg/Kg), and total lead (to 16 mg/Kg). Laboratory analysis for fuel oxygenates was not conducted. From March 2000 through December 2009, groundwater monitoring has been conducted at the Village Food and Fuel Facility located approximately 200 feet to the south of the site. The groundwater monitoring results of the Village Food and Fuel Facility have indicated MTBE concentrations in cross-gradient and up-gradient wells MW-13 and MW- 15. The detected MTBE in these wells have been suspected as being derived from an unauthorized release from the Idyllwild Chevron (subject site). On January 19, 201 0, the CRDEH issued a directive for a site characterization investigation of the site to delineate the lateral and vertical extent of soil contamination and determine possible impacts to groundwater. Groundwater monitoring wells MW-1A, MW-3A, and MW-4A were installed April 23 and 24, 2013. MW-2A was not completed due to refusal at 16 bgs. Only one soil sample was taken at 10 bgs in MW-2A and no analytes were detected. MW-1A was screened from 15 to 30, MW-3A from 20 to 34 and MW-4A from 20 to 30. Soil samples were taken every 5. TPHg (up to 809 ppm and TPHd (up to 300 ppm) was detected in wells MW-1A and MW-3A at depths between 15 and 30. TPHg was detected in MW-4A (up to 0.192 ppm) between 25 and 30 feet. N-butylbenzene (to 3.02 ppm), ethylbenzene (to 20.0 ppm), naphthalene (to 7.65 ppm), n-propylbenzene (to 7.73 ppm), toluene (37.7 ppm), 1,2,4-trimethylbenzene (67.0 ppm), 1,3,5-trimethylbenzene (to 18.0 ppm), xylenes (to 130.9 ppm) were detected in the soil samples

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**IDYLLWILD CHEVRON #2529 (Continued)**

**S103066246**

collected from well MW-1A at depths of 15 to 25 bgs and MW-3A at depth of 20 and 25 bgs. No oxygenates were detected. The static water level in the wells was ~21 bgs. Groundwater monitoring wells MW-2A, MW-5A, MW-6A, MW-7A and MW-8A were installed June 21 and 22, 2013 to 23 to 33 feet bgs. MW-2A was screened from 13 to 23 bgs, MW-5A, MW-6A, MW-7A and MW-8A from 17 to 32 bgs. Soil samples were not taken from MW-2A. MW-5A had one hit of MTBE of 0.117 ppm at 25. MW-6A had up to 87.3 ppb TPHg, 1.04 ppm toluene, 0.623 ppm ethylbenzene and 4.23 ppm xylenes at 33. MW-7A had 0.121 ppm MTBE at 25 and 0.04 ppm at 30. 9 wells were gauged and sampled (the 8 new wells plus MW-15 from Village Food and Fuel) May 3 and June 28, 2013. WL ranged from 18.75 to 25.01. Flow to the S30W at 0.036 ft/ft. TPHg was detected in 5 wells ranging from 148 to 81300 ppb. TPHd was detected in 3 wells ranging from 3670 to 15700 ppb. Benzene was detected in 5 wells ranging from 4.06 to 7020 ppb. Toluene was detected in 4 wells ranging from 115 to 14400. Ethylbenzene was detected in 3 wells ranging from 760 to 1960 ppb. Xylenes were detected in 4 wells ranging from 252.2 to 10580 ppb. MTBE was detected in 4 wells ranging from 56.9 to 14800 ppb. ETBE was detected in 2 wells at 7.13 and 23.6 ppb. Naphthalene was detected in 4 wells ranging from 36.7 to 212 ppb. 1,2,4-TMB was detected in 4 wells ranging from 41.2 to 3430 ppb. 1,3,5-TMB was detected in 4 wells ranging from 13 to 1030 ppb. N-propylbenzene was detected in 3 wells ranging from 114 to 304 ppb. Isopropylbenzene was detected in 2 wells at 54.3 and 83.7 ppb. 6 vapor extraction wells (SVE-1 through SVE-6) were installed November 6 and 7, 2013. SVE-1 was drilled and sampled as a continuous core and wells SVE-2 through SVE-4 were sampled every 5 to 25 bgs. Wells SVE-5 and SVE-6 were sampled every 5 to 20 bgs. The wells were screened from 8 to 18. TPHg was detected in SVE-1 from 13.5 to 24 with a high of 4930 ppm at 19.5. Diesel was detected from 12 to 24 with a high of 929 ppm at 18. No benzene or MTBE was detected. SVE-2 had TPHg between 9 and 24 with a high of 1770 ppm at 19 and TPHd at 19 and 24 with a high of 249 ppm at 19. No BTEX or MTBE was detected. SVE-3 had TPHg from 6 to 20 with a high of 2570 ppm at 15 and TPHg from 6 to 20 with a high of 1230 ppm at 6. No Benzene, toluene or MTBE was detected. SVE-4 had TPHg at 15 at 0.263 ppm and TPHd from 6 to 25 with a high of 448 ppm at 6. No BTEX or MTBE was detected. SVE-5 had TPHg at 15 at 0.222 ppm and TPHg from 9 to 20 feet with a high of 572 ppm at 9. No BTEX or MTBE was detected. SVE-6 had TPHg at 15 and 20 with a high of 1630 ppm at 20 and TPHd from 10 to 20 with a high of 235 ppm at 15. No BTE or MTBE was detected.

LUST:

Global Id: T10000001758  
Contact Type: Regional Board Caseworker  
Contact Name: NANCY OLSON-MARTIN  
Organization Name: SANTA ANA RWQCB (REGION 8)  
Address: 3737 MAIN STREET, SUITE 500  
City: RIVERSIDE  
Email: nolson-martin@waterboards.ca.gov  
Phone Number: Not reported

LUST:

Global Id: T10000001758  
Action Type: ENFORCEMENT  
Date: 07/01/2017  
Action: Referral to Regional Board - #RCDEH notification letters

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**IDYLLWILD CHEVRON #2529 (Continued)**

**S103066246**

Global Id:	T10000001758
Action Type:	RESPONSE
Date:	03/19/2010
Action:	Preliminary Site Assessment Workplan
Global Id:	T10000001758
Action Type:	RESPONSE
Date:	07/15/2014
Action:	Monitoring Report - Quarterly
Global Id:	T10000001758
Action Type:	RESPONSE
Date:	04/15/2015
Action:	Monitoring Report - Quarterly
Global Id:	T10000001758
Action Type:	ENFORCEMENT
Date:	11/30/2018
Action:	Clean Up Fund - Case Closure Review Summary Report (RSR)
Global Id:	T10000001758
Action Type:	ENFORCEMENT
Date:	12/29/2016
Action:	Clean Up Fund - Case Closure Review Summary Report (RSR)
Global Id:	T10000001758
Action Type:	RESPONSE
Date:	07/15/2015
Action:	Monitoring Report - Quarterly
Global Id:	T10000001758
Action Type:	ENFORCEMENT
Date:	01/14/2010
Action:	Notification - Proposition 65 - #RCDEH 011410
Global Id:	T10000001758
Action Type:	ENFORCEMENT
Date:	01/19/2010
Action:	Staff Letter - #RCDEH 011910
Global Id:	T10000001758
Action Type:	ENFORCEMENT
Date:	01/14/2010
Action:	Notice of Responsibility - #RCDEH 011410
Global Id:	T10000001758
Action Type:	ENFORCEMENT
Date:	01/14/2010
Action:	Unauthorized Release Form - #RCDEH 011410
Global Id:	T10000001758
Action Type:	ENFORCEMENT
Date:	01/14/2010
Action:	Notice of Reimbursement - #RCDEH 011410
Global Id:	T10000001758
Action Type:	ENFORCEMENT

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**IDYLLWILD CHEVRON #2529 (Continued)**

**S103066246**

Date: 05/27/2010  
Action: Staff Letter - #rcdeh 052710

Global Id: T10000001758  
Action Type: ENFORCEMENT  
Date: 07/15/2014  
Action: Staff Letter - #RCDEH 071514

Global Id: T10000001758  
Action Type: RESPONSE  
Date: 10/15/2015  
Action: Monitoring Report - Quarterly

Global Id: T10000001758  
Action Type: RESPONSE  
Date: 04/15/2016  
Action: Monitoring Report - Quarterly

Global Id: T10000001758  
Action Type: ENFORCEMENT  
Date: 10/12/2010  
Action: Clean Up Fund - Letter to RP - #FUND 101210

Global Id: T10000001758  
Action Type: ENFORCEMENT  
Date: 10/04/2010  
Action: Staff Letter - #RCDEH 100410

Global Id: T10000001758  
Action Type: RESPONSE  
Date: 12/06/2010  
Action: Preliminary Site Assessment Report

Global Id: T10000001758  
Action Type: Other  
Date: 01/14/2010  
Action: Leak Discovery

Global Id: T10000001758  
Action Type: RESPONSE  
Date: 10/15/2011  
Action: Monitoring Report - Quarterly

Global Id: T10000001758  
Action Type: RESPONSE  
Date: 01/15/2016  
Action: Monitoring Report - Quarterly

Global Id: T10000001758  
Action Type: RESPONSE  
Date: 04/24/2017  
Action: Correspondence

Global Id: T10000001758  
Action Type: RESPONSE  
Date: 10/17/2017  
Action: Email Correspondence

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**IDYLLWILD CHEVRON #2529 (Continued)**

**S103066246**

Global Id:	T10000001758
Action Type:	RESPONSE
Date:	10/11/2018
Action:	Email Correspondence
Global Id:	T10000001758
Action Type:	RESPONSE
Date:	10/15/2016
Action:	Monitoring Report - Quarterly
Global Id:	T10000001758
Action Type:	RESPONSE
Date:	08/30/2017
Action:	Email Correspondence
Global Id:	T10000001758
Action Type:	RESPONSE
Date:	12/12/2017
Action:	Email Correspondence
Global Id:	T10000001758
Action Type:	RESPONSE
Date:	07/30/2018
Action:	Monitoring Report - Other
Global Id:	T10000001758
Action Type:	RESPONSE
Date:	01/31/2018
Action:	Monitoring Report - Other
Global Id:	T10000001758
Action Type:	RESPONSE
Date:	01/15/2017
Action:	Monitoring Report - Quarterly
Global Id:	T10000001758
Action Type:	RESPONSE
Date:	09/30/2017
Action:	Monitoring Report - Quarterly
Global Id:	T10000001758
Action Type:	RESPONSE
Date:	10/30/2018
Action:	Monitoring Report - Semi-Annually
Global Id:	T10000001758
Action Type:	RESPONSE
Date:	02/26/2018
Action:	Site Assessment Report
Global Id:	T10000001758
Action Type:	RESPONSE
Date:	08/30/2018
Action:	Email Correspondence
Global Id:	T10000001758
Action Type:	RESPONSE



Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**IDYLLWILD CHEVRON #2529 (Continued)**

**S103066246**

Date: 08/16/2017  
Action: Email Correspondence

Global Id: T10000001758  
Action Type: ENFORCEMENT  
Date: 10/04/2010  
Action: Staff Letter - #RCDEH 100410

Global Id: T10000001758  
Action Type: Other  
Date: 05/11/1995  
Action: Leak Stopped

Global Id: T10000001758  
Action Type: RESPONSE  
Date: 07/15/2012  
Action: Monitoring Report - Semi-Annually

Global Id: T10000001758  
Action Type: RESPONSE  
Date: 02/12/2014  
Action: Soil Vapor Intrusion Investigation Workplan - Regulator Responded

Global Id: T10000001758  
Action Type: RESPONSE  
Date: 09/05/2014  
Action: Soil and Water Investigation Workplan - Regulator Responded

Global Id: T10000001758  
Action Type: RESPONSE  
Date: 04/30/2017  
Action: Other Workplan - Regulator Responded

Global Id: T10000001758  
Action Type: RESPONSE  
Date: 02/26/2018  
Action: Well Installation Report - Regulator Responded

Global Id: T10000001758  
Action Type: RESPONSE  
Date: 03/06/2018  
Action: Well Installation Workplan - Regulator Responded

Global Id: T10000001758  
Action Type: RESPONSE  
Date: 02/26/2018  
Action: Soil Vapor Intrusion Investigation Report - Regulator Responded

Global Id: T10000001758  
Action Type: ENFORCEMENT  
Date: 02/03/2017  
Action: Staff Letter - #RCDEH 02032017

Global Id: T10000001758  
Action Type: ENFORCEMENT  
Date: 08/26/2016  
Action: Technical Correspondence / Assistance / Other - #RCDEH 082616

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**IDYLLWILD CHEVRON #2529 (Continued)**

**S103066246**

Global Id: T10000001758  
Action Type: ENFORCEMENT  
Date: 01/15/2016  
Action: File review - #RCDEH uploads site file 1/15/2016

Global Id: T10000001758  
Action Type: ENFORCEMENT  
Date: 05/11/2017  
Action: Staff Letter - #RCDEH#051017

Global Id: T10000001758  
Action Type: RESPONSE  
Date: 07/15/2013  
Action: Monitoring Report - Quarterly

Global Id: T10000001758  
Action Type: ENFORCEMENT  
Date: 10/12/2012  
Action: Clean Up Fund - Letter to RP - #RCDEH 073112

Global Id: T10000001758  
Action Type: ENFORCEMENT  
Date: 08/16/2017  
Action: File review

Global Id: T10000001758  
Action Type: Other  
Date: 01/14/2010  
Action: Leak Reported

Global Id: T10000001758  
Action Type: RESPONSE  
Date: 10/15/2013  
Action: Monitoring Report - Quarterly

Global Id: T10000001758  
Action Type: ENFORCEMENT  
Date: 07/01/2017  
Action: File review - #RCDEH site summary

Global Id: T10000001758  
Action Type: ENFORCEMENT  
Date: 10/05/2018  
Action: Meeting

Global Id: T10000001758  
Action Type: RESPONSE  
Date: 01/15/2014  
Action: Monitoring Report - Quarterly

Global Id: T10000001758  
Action Type: RESPONSE  
Date: 04/15/2014  
Action: Monitoring Report - Quarterly

LUST:  
Global Id: T10000001758

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**IDYLLWILD CHEVRON #2529 (Continued)**

**S103066246**

Status: Open - Case Begin Date  
Status Date: 01/14/2010

Global Id: T10000001758  
Status: Open - Site Assessment  
Status Date: 01/19/2010

**LUST REG 8:**

Name: IDYLLWILD CHEVRON #2529  
Address: 25015 HIGHWAY 243  
City: IDYLLWILD  
Region: 8  
County: Riverside  
Regional Board: Santa Ana Region  
Facility Status: Leak being confirmed  
Case Number: 083302382T  
Local Case Num: Not reported  
Case Type: Soil only  
Substance: Gasoline  
Qty Leaked: Not reported  
Abate Method: Not reported  
Cross Street: CIRCLE  
Enf Type: Not reported  
Funding: Federal Funds  
How Discovered: Inventory Control  
How Stopped: Not reported  
Leak Cause: UNK  
Leak Source: UNK  
Global ID: T0606500352  
How Stopped Date: Not reported  
Enter Date: 1/14/1994  
Date Confirmation of Leak Began: 1/1/1965  
Date Preliminary Assessment Began: Not reported  
Discover Date: 11/4/1993  
Enforcement Date: Not reported  
Close Date: 2/1/2002  
Date Prelim Assessment Workplan Submitted: Not reported  
Date Pollution Characterization Began: Not reported  
Date Remediation Plan Submitted: Not reported  
Date Remedial Action Underway: Not reported  
Date Post Remedial Action Monitoring: Not reported  
Enter Date: 1/14/1994  
GW Qualifies: Not reported  
Soil Qualifies: Not reported  
Operator: Not reported  
Facility Contact: Not reported  
Interim: Not reported  
Oversite Program: LUST  
Latitude: 34.3502267  
Longitude: -117.2493057  
MTBE Date: Not reported  
Max MTBE GW: Not reported  
MTBE Concentration: 0  
Max MTBE Soil: Not reported  
MTBE Fuel: 1  
MTBE Tested: Site NOT Tested for MTBE.Includes Unknown and Not Analyzed.

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**IDYLLWILD CHEVRON #2529 (Continued)**

**S103066246**

MTBE Class: \*  
Staff: CAB  
Staff Initials: UNK  
Lead Agency: Local Agency  
Local Agency: 33000L  
Hydr Basin #: UPPER MOJAVE RIVER V  
Beneficial: Not reported  
Priority: Not reported  
Cleanup Fund Id: Not reported  
Work Suspended: Not reported  
Summary: Not reported

**RIVERSIDE CO. LUST:**

Name: IDYLLWILD CHEVRON  
Address: 25015 HWY 243  
City,State,Zip: IDYLLWILD, CA  
Region: RIVERSIDE  
Facility ID: 201032578  
Employee: Shurlow-LOP  
Site Closed: Referred to Water Board  
Case Type: Drinking Water Aquifer affected  
Facility Status: closed/action completed  
Casetype Decode: An Aquifer used for Drinking Water supply has been contaminated.  
Fstatus Decode: Closed/Action completed

**CPS-SLIC:**

Name: IDYLLWILD CHEVRON #2529  
Address: 25015 HIGHWAY 243  
City,State,Zip: IDYLLWILD, CA 92549  
Region: STATE  
**Facility Status: Completed - Case Closed**  
Status Date: 02/01/2002  
Global Id: T0606500352  
Lead Agency: RIVERSIDE COUNTY  
Lead Agency Case Number: Not reported  
Latitude: 34.3502267  
Longitude: -117.2493057  
Case Type: Cleanup Program Site  
Case Worker: RL  
Local Agency: RIVERSIDE COUNTY  
RB Case Number: 083302382T  
File Location: Not reported  
Potential Media Affected: Soil  
Potential Contaminants of Concern: Gasoline  
Site History: Not reported

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

**CORTESE:**

Name: IDYLLWILD CHEVRON  
Address: 25015 HWY. 243  
City,State,Zip: IDYLLWILD, CA 92549  
Region: CORTESE  
Envirostor Id: Not reported  
Global ID: T10000001758  
Site/Facility Type: LUST CLEANUP SITE

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**IDYLLWILD CHEVRON #2529 (Continued)**

**S103066246**

Cleanup Status: OPEN - SITE ASSESSMENT  
Status Date: Not reported  
Site Code: Not reported  
Latitude: Not reported  
Longitude: Not reported  
Owner: Not reported  
Enf Type: Not reported  
Swat R: Not reported  
Flag: active  
Order No: Not reported  
Waste Discharge System No: Not reported  
Effective Date: Not reported  
Region 2: Not reported  
WID Id: Not reported  
Solid Waste Id No: Not reported  
Waste Management Uit Name: Not reported  
File Name: Active Open

**HIST CORTESE:**

edr\_fname: IDYLLWILD CHEVRON #2529  
edr\_fadd1: 25015  
City,State,Zip: IDYLLWILD, CA 92349  
Region: CORTESE  
Facility County Code: 33  
Reg By: LTNKA  
Reg Id: 083302382T

**NOTIFY 65:**

Date Reported: Not reported  
Staff Initials: Not reported  
Board File Number: Not reported  
Facility Type: Not reported  
Discharge Date: Not reported  
Issue Date: Not reported  
Incident Description: Not reported

Count: 1 records.

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
IDYLLWILD	S114728915	IDYLLWILD DISPOSAL SITE	OFF IDYLLWILD MT. RD, BTW IDYW		RGA LF

# 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: 07/19/2019	Source: EPA
Date Data Arrived at EDR: 07/30/2019	Telephone: N/A
Date Made Active in Reports: 09/03/2019	Last EDR Contact: 10/02/2019
Number of Days to Update: 35	Next Scheduled EDR Contact: 01/13/2020
	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: 07/19/2019	Source: EPA
Date Data Arrived at EDR: 07/30/2019	Telephone: N/A
Date Made Active in Reports: 09/03/2019	Last EDR Contact: 10/02/2019
Number of Days to Update: 35	Next Scheduled EDR Contact: 01/13/2020
	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.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 10/15/1991  
Date Data Arrived at EDR: 02/02/1994  
Date Made Active in Reports: 03/30/1994  
Number of Days to Update: 56

Source: EPA  
Telephone: 202-564-4267  
Last EDR Contact: 08/15/2011  
Next Scheduled EDR Contact: 11/28/2011  
Data Release Frequency: No Update Planned

## ***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: 07/19/2019  
Date Data Arrived at EDR: 07/30/2019  
Date Made Active in Reports: 09/03/2019  
Number of Days to Update: 35

Source: EPA  
Telephone: N/A  
Last EDR Contact: 10/02/2019  
Next Scheduled EDR Contact: 01/13/2020  
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: 04/03/2019  
Date Data Arrived at EDR: 04/05/2019  
Date Made Active in Reports: 05/14/2019  
Number of Days to Update: 39

Source: Environmental Protection Agency  
Telephone: 703-603-8704  
Last EDR Contact: 10/04/2019  
Next Scheduled EDR Contact: 01/13/2020  
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: 07/19/2019  
Date Data Arrived at EDR: 07/30/2019  
Date Made Active in Reports: 09/03/2019  
Number of Days to Update: 35

Source: EPA  
Telephone: 800-424-9346  
Last EDR Contact: 10/02/2019  
Next Scheduled EDR Contact: 10/28/2019  
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: 07/19/2019	Source: EPA
Date Data Arrived at EDR: 07/30/2019	Telephone: 800-424-9346
Date Made Active in Reports: 09/03/2019	Last EDR Contact: 10/02/2019
Number of Days to Update: 35	Next Scheduled EDR Contact: 10/28/2019
	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: 03/25/2019	Source: EPA
Date Data Arrived at EDR: 03/27/2019	Telephone: 800-424-9346
Date Made Active in Reports: 04/17/2019	Last EDR Contact: 09/16/2019
Number of Days to Update: 21	Next Scheduled EDR Contact: 01/06/2020
	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: 03/25/2019	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/27/2019	Telephone: (415) 495-8895
Date Made Active in Reports: 04/17/2019	Last EDR Contact: 09/16/2019
Number of Days to Update: 21	Next Scheduled EDR Contact: 01/06/2020
	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: 03/25/2019	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/27/2019	Telephone: (415) 495-8895
Date Made Active in Reports: 04/17/2019	Last EDR Contact: 09/16/2019
Number of Days to Update: 21	Next Scheduled EDR Contact: 01/06/2020
	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: 03/25/2019	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/27/2019	Telephone: (415) 495-8895
Date Made Active in Reports: 04/17/2019	Last EDR Contact: 09/16/2019
Number of Days to Update: 21	Next Scheduled EDR Contact: 01/06/2020
	Data Release Frequency: Quarterly

## RCRA-VSQG: RCRA - Very Small Quantity Generators (Formerly Conditionally Exempt Small Quantity Generators)

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

Date of Government Version: 03/25/2019	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/27/2019	Telephone: (415) 495-8895
Date Made Active in Reports: 04/17/2019	Last EDR Contact: 09/16/2019
Number of Days to Update: 21	Next Scheduled EDR Contact: 01/06/2020
	Data Release Frequency: Quarterly

## ***Federal institutional controls / engineering controls registries***

### LUCIS: Land Use Control Information System

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

Date of Government Version: 08/13/2019	Source: Department of the Navy
Date Data Arrived at EDR: 08/20/2019	Telephone: 843-820-7326
Date Made Active in Reports: 08/26/2019	Last EDR Contact: 08/07/2019
Number of Days to Update: 6	Next Scheduled EDR Contact: 11/25/2019
	Data Release Frequency: Varies

### US ENG CONTROLS: Engineering Controls Sites List

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

Date of Government Version: 08/19/2019	Source: Environmental Protection Agency
Date Data Arrived at EDR: 08/20/2019	Telephone: 703-603-0695
Date Made Active in Reports: 08/26/2019	Last EDR Contact: 08/20/2019
Number of Days to Update: 6	Next Scheduled EDR Contact: 12/09/2019
	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: 08/19/2019	Source: Environmental Protection Agency
Date Data Arrived at EDR: 08/20/2019	Telephone: 703-603-0695
Date Made Active in Reports: 08/26/2019	Last EDR Contact: 08/20/2019
Number of Days to Update: 6	Next Scheduled EDR Contact: 12/09/2019
	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: 09/09/2019

Date Data Arrived at EDR: 09/09/2019

Date Made Active in Reports: 09/23/2019

Number of Days to Update: 14

Source: National Response Center, United States Coast Guard

Telephone: 202-267-2180

Last EDR Contact: 09/09/2019

Next Scheduled EDR Contact: 01/06/2020

Data Release Frequency: Quarterly

## ***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: 07/29/2019

Date Data Arrived at EDR: 07/31/2019

Date Made Active in Reports: 10/08/2019

Number of Days to Update: 69

Source: Department of Toxic Substances Control

Telephone: 916-323-3400

Last EDR Contact: 07/31/2019

Next Scheduled EDR Contact: 11/11/2019

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: 07/29/2019

Date Data Arrived at EDR: 07/31/2019

Date Made Active in Reports: 10/08/2019

Number of Days to Update: 69

Source: Department of Toxic Substances Control

Telephone: 916-323-3400

Last EDR Contact: 07/31/2019

Next Scheduled EDR Contact: 11/11/2019

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: 08/12/2019

Date Data Arrived at EDR: 08/13/2019

Date Made Active in Reports: 10/09/2019

Number of Days to Update: 57

Source: Department of Resources Recycling and Recovery

Telephone: 916-341-6320

Last EDR Contact: 08/13/2019

Next Scheduled EDR Contact: 11/25/2019

Data Release Frequency: Quarterly

## ***State and tribal leaking storage tank lists***

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## LUST REG 9: Leaking Underground Storage Tank Report

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

Date of Government Version: 03/01/2001  
Date Data Arrived at EDR: 04/23/2001  
Date Made Active in Reports: 05/21/2001  
Number of Days to Update: 28

Source: California Regional Water Quality Control Board San Diego Region (9)  
Telephone: 858-637-5595  
Last EDR Contact: 09/26/2011  
Next Scheduled EDR Contact: 01/09/2012  
Data Release Frequency: No Update Planned

## LUST REG 8: Leaking Underground Storage Tanks

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

Date of Government Version: 02/14/2005  
Date Data Arrived at EDR: 02/15/2005  
Date Made Active in Reports: 03/28/2005  
Number of Days to Update: 41

Source: California Regional Water Quality Control Board Santa Ana Region (8)  
Telephone: 909-782-4496  
Last EDR Contact: 08/15/2011  
Next Scheduled EDR Contact: 11/28/2011  
Data Release Frequency: No Update Planned

## LUST REG 7: Leaking Underground Storage Tank Case Listing

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

Date of Government Version: 02/26/2004  
Date Data Arrived at EDR: 02/26/2004  
Date Made Active in Reports: 03/24/2004  
Number of Days to Update: 27

Source: California Regional Water Quality Control Board Colorado River Basin Region (7)  
Telephone: 760-776-8943  
Last EDR Contact: 08/01/2011  
Next Scheduled EDR Contact: 11/14/2011  
Data Release Frequency: No Update Planned

## LUST REG 5: Leaking Underground Storage Tank Database

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

Date of Government Version: 07/01/2008  
Date Data Arrived at EDR: 07/22/2008  
Date Made Active in Reports: 07/31/2008  
Number of Days to Update: 9

Source: California Regional Water Quality Control Board Central Valley Region (5)  
Telephone: 916-464-4834  
Last EDR Contact: 07/01/2011  
Next Scheduled EDR Contact: 10/17/2011  
Data Release Frequency: No Update Planned

## LUST REG 4: Underground Storage Tank Leak List

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

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

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

## LUST REG 3: Leaking Underground Storage Tank Database

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

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

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

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## LUST REG 2: Fuel Leak List

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

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

Source: California Regional Water Quality Control Board San Francisco Bay Region (2)  
Telephone: 510-622-2433  
Last EDR Contact: 09/19/2011  
Next Scheduled EDR Contact: 01/02/2012  
Data Release Frequency: No Update Planned

## LUST REG 1: Active Toxic Site Investigation

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

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

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

## LUST REG 6V: Leaking Underground Storage Tank Case Listing

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

Date of Government Version: 06/07/2005  
Date Data Arrived at EDR: 06/07/2005  
Date Made Active in Reports: 06/29/2005  
Number of Days to Update: 22

Source: California Regional Water Quality Control Board Victorville Branch Office (6)  
Telephone: 760-241-7365  
Last EDR Contact: 09/12/2011  
Next Scheduled EDR Contact: 12/26/2011  
Data Release Frequency: No Update Planned

## LUST REG 6L: Leaking Underground Storage Tank Case Listing

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

Date of Government Version: 09/09/2003  
Date Data Arrived at EDR: 09/10/2003  
Date Made Active in Reports: 10/07/2003  
Number of Days to Update: 27

Source: California Regional Water Quality Control Board Lahontan Region (6)  
Telephone: 530-542-5572  
Last EDR Contact: 09/12/2011  
Next Scheduled EDR Contact: 12/26/2011  
Data Release Frequency: No Update Planned

## LUST: Leaking Underground Fuel Tank Report (GEOTRACKER)

Leaking Underground Storage Tank (LUST) Sites included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 06/10/2019  
Date Data Arrived at EDR: 06/11/2019  
Date Made Active in Reports: 08/05/2019  
Number of Days to Update: 55

Source: State Water Resources Control Board  
Telephone: see region list  
Last EDR Contact: 09/09/2019  
Next Scheduled EDR Contact: 12/23/2019  
Data Release Frequency: Quarterly

## INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 02/19/2019  
Date Data Arrived at EDR: 03/07/2019  
Date Made Active in Reports: 05/01/2019  
Number of Days to Update: 55

Source: EPA Region 7  
Telephone: 913-551-7003  
Last EDR Contact: 07/29/2019  
Next Scheduled EDR Contact: 11/04/2019  
Data Release Frequency: Varies

## INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land

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

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 10/16/2018  
Date Data Arrived at EDR: 03/07/2019  
Date Made Active in Reports: 05/01/2019  
Number of Days to Update: 55

Source: EPA Region 8  
Telephone: 303-312-6271  
Last EDR Contact: 07/29/2019  
Next Scheduled EDR Contact: 11/04/2019  
Data Release Frequency: Varies

**INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land**  
LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 11/01/2018  
Date Data Arrived at EDR: 03/07/2019  
Date Made Active in Reports: 05/01/2019  
Number of Days to Update: 55

Source: EPA Region 6  
Telephone: 214-665-6597  
Last EDR Contact: 07/29/2019  
Next Scheduled EDR Contact: 11/04/2019  
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: 10/12/2018  
Date Data Arrived at EDR: 03/07/2019  
Date Made Active in Reports: 05/01/2019  
Number of Days to Update: 55

Source: EPA, Region 5  
Telephone: 312-886-7439  
Last EDR Contact: 07/29/2019  
Next Scheduled EDR Contact: 11/04/2019  
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: 09/24/2018  
Date Data Arrived at EDR: 03/12/2019  
Date Made Active in Reports: 05/01/2019  
Number of Days to Update: 50

Source: EPA Region 4  
Telephone: 404-562-8677  
Last EDR Contact: 07/23/2019  
Next Scheduled EDR Contact: 11/04/2019  
Data Release Frequency: Varies

**INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land**  
A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 10/13/2018  
Date Data Arrived at EDR: 03/07/2019  
Date Made Active in Reports: 05/01/2019  
Number of Days to Update: 55

Source: EPA Region 1  
Telephone: 617-918-1313  
Last EDR Contact: 07/29/2019  
Next Scheduled EDR Contact: 11/04/2019  
Data Release Frequency: Varies

**INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land**  
LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 10/17/2018  
Date Data Arrived at EDR: 03/07/2019  
Date Made Active in Reports: 05/01/2019  
Number of Days to Update: 55

Source: EPA Region 10  
Telephone: 206-553-2857  
Last EDR Contact: 07/29/2019  
Next Scheduled EDR Contact: 11/04/2019  
Data Release Frequency: Varies

**INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land**  
LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 10/10/2018  
Date Data Arrived at EDR: 03/08/2019  
Date Made Active in Reports: 05/01/2019  
Number of Days to Update: 54

Source: Environmental Protection Agency  
Telephone: 415-972-3372  
Last EDR Contact: 07/29/2019  
Next Scheduled EDR Contact: 11/04/2019  
Data Release Frequency: Varies

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## CPS-SLIC: Statewide SLIC Cases (GEOTRACKER)

Cleanup Program Sites (CPS; also known as Site Cleanups [SC] and formerly known as Spills, Leaks, Investigations, and Cleanups [SLIC] sites) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 06/10/2019	Source: State Water Resources Control Board
Date Data Arrived at EDR: 06/11/2019	Telephone: 866-480-1028
Date Made Active in Reports: 08/05/2019	Last EDR Contact: 09/09/2019
Number of Days to Update: 55	Next Scheduled EDR Contact: 12/23/2019
	Data Release Frequency: Varies

## SLIC REG 1: Active Toxic Site Investigations

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

Date of Government Version: 04/03/2003	Source: California Regional Water Quality Control Board, North Coast Region (1)
Date Data Arrived at EDR: 04/07/2003	Telephone: 707-576-2220
Date Made Active in Reports: 04/25/2003	Last EDR Contact: 08/01/2011
Number of Days to Update: 18	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	Source: Regional Water Quality Control Board San Francisco Bay Region (2)
Date Data Arrived at EDR: 10/20/2004	Telephone: 510-286-0457
Date Made Active in Reports: 11/19/2004	Last EDR Contact: 09/19/2011
Number of Days to Update: 30	Next Scheduled EDR Contact: 01/02/2012
	Data Release Frequency: No Update Planned

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

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

Date of Government Version: 05/18/2006	Source: California Regional Water Quality Control Board Central Coast Region (3)
Date Data Arrived at EDR: 05/18/2006	Telephone: 805-549-3147
Date Made Active in Reports: 06/15/2006	Last EDR Contact: 07/18/2011
Number of Days to Update: 28	Next Scheduled EDR Contact: 10/31/2011
	Data Release Frequency: No Update Planned

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

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

Date of Government Version: 11/17/2004	Source: Region Water Quality Control Board Los Angeles Region (4)
Date Data Arrived at EDR: 11/18/2004	Telephone: 213-576-6600
Date Made Active in Reports: 01/04/2005	Last EDR Contact: 07/01/2011
Number of Days to Update: 47	Next Scheduled EDR Contact: 10/17/2011
	Data Release Frequency: No Update Planned

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

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

Date of Government Version: 04/01/2005	Source: Regional Water Quality Control Board Central Valley Region (5)
Date Data Arrived at EDR: 04/05/2005	Telephone: 916-464-3291
Date Made Active in Reports: 04/21/2005	Last EDR Contact: 09/12/2011
Number of Days to Update: 16	Next Scheduled EDR Contact: 12/26/2011
	Data Release Frequency: No Update Planned

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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

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

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

Source: Regional Water Quality Control Board, Victorville Branch  
Telephone: 619-241-6583  
Last EDR Contact: 08/15/2011  
Next Scheduled EDR Contact: 11/28/2011  
Data Release Frequency: No Update Planned

## SLIC REG 6L: SLIC Sites

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

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

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

## SLIC REG 7: SLIC List

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

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

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

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

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

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

Source: California Region Water Quality Control Board Santa Ana Region (8)  
Telephone: 951-782-3298  
Last EDR Contact: 09/12/2011  
Next Scheduled EDR Contact: 12/26/2011  
Data Release Frequency: No Update Planned

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

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

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

Source: California Regional Water Quality Control Board San Diego Region (9)  
Telephone: 858-467-2980  
Last EDR Contact: 08/08/2011  
Next Scheduled EDR Contact: 11/21/2011  
Data Release Frequency: No Update Planned

## **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: 05/15/2017  
Date Data Arrived at EDR: 05/30/2017  
Date Made Active in Reports: 10/13/2017  
Number of Days to Update: 136

Source: FEMA  
Telephone: 202-646-5797  
Last EDR Contact: 10/11/2019  
Next Scheduled EDR Contact: 01/20/2020  
Data Release Frequency: Varies



# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## MILITARY UST SITES: Military UST Sites (GEOTRACKER)

Military ust sites

Date of Government Version: 06/10/2019	Source: State Water Resources Control Board
Date Data Arrived at EDR: 06/11/2019	Telephone: 866-480-1028
Date Made Active in Reports: 07/24/2019	Last EDR Contact: 09/09/2019
Number of Days to Update: 43	Next Scheduled EDR Contact: 12/23/2019
	Data Release Frequency: Varies

## UST CLOSURE: Proposed Closure of Underground Storage Tank (UST) Cases

UST cases that are being considered for closure by either the State Water Resources Control Board or the Executive Director have been posted for a 60-day public comment period. UST Case Closures being proposed for consideration by the State Water Resources Control Board. These are primarily UST cases that meet closure criteria under the decisional framework in State Water Board Resolution No. 92-49 and other Board orders. UST Case Closures proposed for consideration by the Executive Director pursuant to State Water Board Resolution No. 2012-0061. These are cases that meet the criteria of the Low-Threat UST Case Closure Policy. UST Case Closure Review Denials and Approved Orders.

Date of Government Version: 06/10/2019	Source: State Water Resources Control Board
Date Data Arrived at EDR: 06/12/2019	Telephone: 916-327-7844
Date Made Active in Reports: 07/23/2019	Last EDR Contact: 09/09/2019
Number of Days to Update: 41	Next Scheduled EDR Contact: 12/23/2019
	Data Release Frequency: Varies

## UST: Active UST Facilities

Active UST facilities gathered from the local regulatory agencies

Date of Government Version: 06/10/2019	Source: SWRCB
Date Data Arrived at EDR: 06/11/2019	Telephone: 916-341-5851
Date Made Active in Reports: 07/23/2019	Last EDR Contact: 09/09/2019
Number of Days to Update: 42	Next Scheduled EDR Contact: 12/23/2019
	Data Release Frequency: Semi-Annually

## 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: 09/12/2019
Number of Days to Update: 69	Next Scheduled EDR Contact: 12/30/2019
	Data Release Frequency: Varies

## INDIAN UST R8: Underground Storage Tanks on Indian Land

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

Date of Government Version: 10/16/2018	Source: EPA Region 8
Date Data Arrived at EDR: 03/07/2019	Telephone: 303-312-6137
Date Made Active in Reports: 05/01/2019	Last EDR Contact: 08/05/2019
Number of Days to Update: 55	Next Scheduled EDR Contact: 11/04/2019
	Data Release Frequency: Varies

## INDIAN UST R4: Underground Storage Tanks on Indian Land

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

Date of Government Version: 09/24/2018	Source: EPA Region 4
Date Data Arrived at EDR: 03/12/2019	Telephone: 404-562-9424
Date Made Active in Reports: 05/01/2019	Last EDR Contact: 07/23/2019
Number of Days to Update: 50	Next Scheduled EDR Contact: 11/04/2019
	Data Release Frequency: Varies

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## 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: 10/17/2018	Source: EPA Region 10
Date Data Arrived at EDR: 03/07/2019	Telephone: 206-553-2857
Date Made Active in Reports: 05/01/2019	Last EDR Contact: 07/29/2019
Number of Days to Update: 55	Next Scheduled EDR Contact: 11/04/2019
	Data Release Frequency: Varies

## INDIAN UST R7: Underground Storage Tanks on Indian Land

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

Date of Government Version: 11/07/2018	Source: EPA Region 7
Date Data Arrived at EDR: 03/07/2019	Telephone: 913-551-7003
Date Made Active in Reports: 05/01/2019	Last EDR Contact: 07/29/2019
Number of Days to Update: 55	Next Scheduled EDR Contact: 11/04/2019
	Data Release Frequency: Varies

## INDIAN UST R6: Underground Storage Tanks on Indian Land

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

Date of Government Version: 11/01/2018	Source: EPA Region 6
Date Data Arrived at EDR: 03/07/2019	Telephone: 214-665-7591
Date Made Active in Reports: 05/01/2019	Last EDR Contact: 07/29/2019
Number of Days to Update: 55	Next Scheduled EDR Contact: 11/04/2019
	Data Release Frequency: Varies

## INDIAN UST R9: Underground Storage Tanks on Indian Land

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

Date of Government Version: 10/10/2018	Source: EPA Region 9
Date Data Arrived at EDR: 03/08/2019	Telephone: 415-972-3368
Date Made Active in Reports: 05/01/2019	Last EDR Contact: 07/29/2019
Number of Days to Update: 54	Next Scheduled EDR Contact: 11/04/2019
	Data Release Frequency: Varies

## INDIAN UST R1: Underground Storage Tanks on Indian Land

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

Date of Government Version: 10/03/2018	Source: EPA, Region 1
Date Data Arrived at EDR: 03/07/2019	Telephone: 617-918-1313
Date Made Active in Reports: 05/01/2019	Last EDR Contact: 07/29/2019
Number of Days to Update: 55	Next Scheduled EDR Contact: 11/04/2019
	Data Release Frequency: Varies

## INDIAN UST R5: Underground Storage Tanks on Indian Land

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

Date of Government Version: 10/12/2018	Source: EPA Region 5
Date Data Arrived at EDR: 03/07/2019	Telephone: 312-886-6136
Date Made Active in Reports: 05/01/2019	Last EDR Contact: 07/29/2019
Number of Days to Update: 55	Next Scheduled EDR Contact: 11/05/2019
	Data Release Frequency: Varies

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## ***State and tribal voluntary cleanup sites***

### 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: 07/29/2019	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 07/31/2019	Telephone: 916-323-3400
Date Made Active in Reports: 10/08/2019	Last EDR Contact: 07/31/2019
Number of Days to Update: 69	Next Scheduled EDR Contact: 11/11/2019
	Data Release Frequency: Quarterly

### 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: 09/19/2019
Number of Days to Update: 142	Next Scheduled EDR Contact: 01/06/2020
	Data Release Frequency: Varies

## ***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: 06/24/2019	Source: State Water Resources Control Board
Date Data Arrived at EDR: 06/25/2019	Telephone: 916-323-7905
Date Made Active in Reports: 08/21/2019	Last EDR Contact: 09/24/2019
Number of Days to Update: 57	Next Scheduled EDR Contact: 01/06/2020
	Data Release Frequency: Quarterly

## **ADDITIONAL ENVIRONMENTAL RECORDS**

### ***Local Brownfield lists***

### US BROWNFIELDS: A Listing of Brownfields Sites

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

Date of Government Version: 06/03/2019	Source: Environmental Protection Agency
Date Data Arrived at EDR: 06/04/2019	Telephone: 202-566-2777
Date Made Active in Reports: 08/26/2019	Last EDR Contact: 09/19/2019
Number of Days to Update: 83	Next Scheduled EDR Contact: 12/30/2019
	Data Release Frequency: Semi-Annually

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## **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	Source: State Water Resources Control Board
Date Data Arrived at EDR: 04/10/2000	Telephone: 916-227-4448
Date Made Active in Reports: 05/10/2000	Last EDR Contact: 07/25/2019
Number of Days to Update: 30	Next Scheduled EDR Contact: 11/11/2019
	Data Release Frequency: No Update Planned

### **SWRCY: Recycler Database**

A listing of recycling facilities in California.

Date of Government Version: 06/11/2019	Source: Department of Conservation
Date Data Arrived at EDR: 06/12/2019	Telephone: 916-323-3836
Date Made Active in Reports: 08/15/2019	Last EDR Contact: 09/09/2019
Number of Days to Update: 64	Next Scheduled EDR Contact: 12/23/2019
	Data Release Frequency: Quarterly

### **HAULERS: Registered Waste Tire Haulers Listing**

A listing of registered waste tire haulers.

Date of Government Version: 03/26/2019	Source: Integrated Waste Management Board
Date Data Arrived at EDR: 03/27/2019	Telephone: 916-341-6422
Date Made Active in Reports: 04/30/2019	Last EDR Contact: 08/07/2019
Number of Days to Update: 34	Next Scheduled EDR Contact: 11/25/2019
	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	Source: Environmental Protection Agency
Date Data Arrived at EDR: 12/03/2007	Telephone: 703-308-8245
Date Made Active in Reports: 01/24/2008	Last EDR Contact: 07/25/2019
Number of Days to Update: 52	Next Scheduled EDR Contact: 11/11/2019
	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	Source: Environmental Protection Agency
Date Data Arrived at EDR: 08/09/2004	Telephone: 800-424-9346
Date Made Active in Reports: 09/17/2004	Last EDR Contact: 06/09/2004
Number of Days to Update: 39	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	Source: EPA, Region 9
Date Data Arrived at EDR: 05/07/2009	Telephone: 415-947-4219
Date Made Active in Reports: 09/21/2009	Last EDR Contact: 07/19/2019
Number of Days to Update: 137	Next Scheduled EDR Contact: 11/04/2019
	Data Release Frequency: No Update Planned

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## IHS OPEN DUMPS: Open Dumps on Indian Land

A listing of all open dumps located on Indian Land in the United States.

Date of Government Version: 04/01/2014	Source: Department of Health & Human Services, Indian Health Service
Date Data Arrived at EDR: 08/06/2014	Telephone: 301-443-1452
Date Made Active in Reports: 01/29/2015	Last EDR Contact: 08/02/2019
Number of Days to Update: 176	Next Scheduled EDR Contact: 11/11/2019
	Data Release Frequency: Varies

## Local Lists of Hazardous waste / Contaminated Sites

### US HIST CDL: National Clandestine Laboratory Register

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

Date of Government Version: 06/11/2019	Source: Drug Enforcement Administration
Date Data Arrived at EDR: 06/13/2019	Telephone: 202-307-1000
Date Made Active in Reports: 09/03/2019	Last EDR Contact: 08/21/2019
Number of Days to Update: 82	Next Scheduled EDR Contact: 12/09/2019
	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	Source: Department of Toxic Substance Control
Date Data Arrived at EDR: 08/03/2006	Telephone: 916-323-3400
Date Made Active in Reports: 08/24/2006	Last EDR Contact: 02/23/2009
Number of Days to Update: 21	Next Scheduled EDR Contact: 05/25/2009
	Data Release Frequency: No Update Planned

### SCH: School Property Evaluation Program

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

Date of Government Version: 07/29/2019	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 07/31/2019	Telephone: 916-323-3400
Date Made Active in Reports: 10/08/2019	Last EDR Contact: 07/31/2019
Number of Days to Update: 69	Next Scheduled EDR Contact: 11/11/2019
	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: 06/30/2018	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 07/16/2019	Telephone: 916-255-6504
Date Made Active in Reports: 09/24/2019	Last EDR Contact: 09/24/2019
Number of Days to Update: 70	Next Scheduled EDR Contact: 01/20/2020
	Data Release Frequency: Varies

### CERS HAZ WASTE: CERS HAZ WASTE

List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the Hazardous Chemical Management, Hazardous Waste Onsite Treatment, Household Hazardous Waste Collection, Hazardous Waste Generator, and RCRA LQ HW Generator programs.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 08/14/2019  
Date Data Arrived at EDR: 08/14/2019  
Date Made Active in Reports: 08/21/2019  
Number of Days to Update: 7

Source: CalEPA  
Telephone: 916-323-2514  
Last EDR Contact: 08/14/2019  
Next Scheduled EDR Contact: 11/04/2019  
Data Release Frequency: Quarterly

## TOXIC PITS: Toxic Pits Cleanup Act Sites

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

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

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

## US CDL: Clandestine Drug Labs

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

Date of Government Version: 06/11/2019  
Date Data Arrived at EDR: 06/13/2019  
Date Made Active in Reports: 09/03/2019  
Number of Days to Update: 82

Source: Drug Enforcement Administration  
Telephone: 202-307-1000  
Last EDR Contact: 08/21/2019  
Next Scheduled EDR Contact: 12/09/2019  
Data Release Frequency: Quarterly

## PFAS: PFAS Contamination Site Location Listing

A listing of PFAS contaminated sites included in the GeoTracker database.

Date of Government Version: 06/28/2019  
Date Data Arrived at EDR: 06/28/2019  
Date Made Active in Reports: 07/24/2019  
Number of Days to Update: 26

Source: State Water Resources Control Board  
Telephone: 866-480-1028  
Last EDR Contact: 09/09/2019  
Next Scheduled EDR Contact: 12/23/2019  
Data Release Frequency: Varies

## **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: 12/04/2018  
Date Data Arrived at EDR: 12/06/2018  
Date Made Active in Reports: 12/14/2018  
Number of Days to Update: 8

Source: Department of Public Health  
Telephone: 707-463-4466  
Last EDR Contact: 08/21/2019  
Next Scheduled EDR Contact: 12/09/2019  
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	Source: State Water Resources Control Board
Date Data Arrived at EDR: 01/25/1991	Telephone: 916-341-5851
Date Made Active in Reports: 02/12/1991	Last EDR Contact: 07/26/2001
Number of Days to Update: 18	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

## SAN FRANCISCO AST: Aboveground Storage Tank Site Listing

Aboveground storage tank sites

Date of Government Version: 08/01/2019	Source: San Francisco County Department of Public Health
Date Data Arrived at EDR: 08/02/2019	Telephone: 415-252-3896
Date Made Active in Reports: 10/11/2019	Last EDR Contact: 07/31/2019
Number of Days to Update: 70	Next Scheduled EDR Contact: 11/18/2019
	Data Release Frequency: Varies

## CA FID UST: Facility Inventory Database

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

Date of Government Version: 10/31/1994	Source: California Environmental Protection Agency
Date Data Arrived at EDR: 09/05/1995	Telephone: 916-341-5851
Date Made Active in Reports: 09/29/1995	Last EDR Contact: 12/28/1998
Number of Days to Update: 24	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

## CERS TANKS: California Environmental Reporting System (CERS) Tanks

List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the Aboveground Petroleum Storage and Underground Storage Tank regulatory programs.

Date of Government Version: 08/14/2019	Source: California Environmental Protection Agency
Date Data Arrived at EDR: 08/14/2019	Telephone: 916-323-2514
Date Made Active in Reports: 08/21/2019	Last EDR Contact: 08/14/2019
Number of Days to Update: 7	Next Scheduled EDR Contact: 11/04/2019
	Data Release Frequency: Quarterly

## **Local Land Records**

### LIENS: Environmental Liens Listing

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

Date of Government Version: 06/05/2019	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 06/06/2019	Telephone: 916-323-3400
Date Made Active in Reports: 08/09/2019	Last EDR Contact: 08/28/2019
Number of Days to Update: 64	Next Scheduled EDR Contact: 12/16/2019
	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: 07/30/2019	Source: Environmental Protection Agency
Date Data Arrived at EDR: 07/30/2019	Telephone: 202-564-6023
Date Made Active in Reports: 09/03/2019	Last EDR Contact: 10/02/2019
Number of Days to Update: 35	Next Scheduled EDR Contact: 01/13/2020
	Data Release Frequency: Semi-Annually

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## 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: 06/04/2019	Source: DTSC and SWRCB
Date Data Arrived at EDR: 06/04/2019	Telephone: 916-323-3400
Date Made Active in Reports: 08/08/2019	Last EDR Contact: 09/04/2019
Number of Days to Update: 65	Next Scheduled EDR Contact: 12/16/2019
	Data Release Frequency: Semi-Annually

## **Records of Emergency Release Reports**

### HMIRS: Hazardous Materials Information Reporting System

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

Date of Government Version: 06/24/2019	Source: U.S. Department of Transportation
Date Data Arrived at EDR: 06/26/2019	Telephone: 202-366-4555
Date Made Active in Reports: 09/23/2019	Last EDR Contact: 09/24/2019
Number of Days to Update: 89	Next Scheduled EDR Contact: 01/06/2020
	Data Release Frequency: Quarterly

### CHMIRS: California Hazardous Material Incident Report System

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

Date of Government Version: 05/15/2019	Source: Office of Emergency Services
Date Data Arrived at EDR: 06/24/2019	Telephone: 916-845-8400
Date Made Active in Reports: 08/21/2019	Last EDR Contact: 07/26/2019
Number of Days to Update: 58	Next Scheduled EDR Contact: 11/04/2019
	Data Release Frequency: Semi-Annually

### LDS: Land Disposal Sites Listing (GEOTRACKER)

Land Disposal sites (Landfills) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 06/10/2019	Source: State Water Quality Control Board
Date Data Arrived at EDR: 06/11/2019	Telephone: 866-480-1028
Date Made Active in Reports: 08/05/2019	Last EDR Contact: 09/09/2019
Number of Days to Update: 55	Next Scheduled EDR Contact: 12/23/2019
	Data Release Frequency: Quarterly

### MCS: Military Cleanup Sites Listing (GEOTRACKER)

Military sites (consisting of: Military UST sites; Military Privatized sites; and Military Cleanup sites [formerly known as DoD non UST]) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 06/10/2019	Source: State Water Resources Control Board
Date Data Arrived at EDR: 06/11/2019	Telephone: 866-480-1028
Date Made Active in Reports: 07/24/2019	Last EDR Contact: 09/09/2019
Number of Days to Update: 43	Next Scheduled EDR Contact: 12/23/2019
	Data Release Frequency: Quarterly



# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## 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.

Date of Government Version: 03/25/2019	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/27/2019	Telephone: (415) 495-8895
Date Made Active in Reports: 04/17/2019	Last EDR Contact: 09/16/2019
Number of Days to Update: 21	Next Scheduled EDR Contact: 01/06/2020
	Data Release Frequency: Quarterly

### FUDS: Formerly Used Defense Sites

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

Date of Government Version: 05/15/2019	Source: U.S. Army Corps of Engineers
Date Data Arrived at EDR: 05/21/2019	Telephone: 202-528-4285
Date Made Active in Reports: 08/08/2019	Last EDR Contact: 08/23/2019
Number of Days to Update: 79	Next Scheduled EDR Contact: 12/02/2019
	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	Source: USGS
Date Data Arrived at EDR: 11/10/2006	Telephone: 888-275-8747
Date Made Active in Reports: 01/11/2007	Last EDR Contact: 10/11/2019
Number of Days to Update: 62	Next Scheduled EDR Contact: 01/20/2020
	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	Source: U.S. Geological Survey
Date Data Arrived at EDR: 02/06/2006	Telephone: 888-275-8747
Date Made Active in Reports: 01/11/2007	Last EDR Contact: 10/07/2019
Number of Days to Update: 339	Next Scheduled EDR Contact: 01/20/2020
	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.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 01/01/2017  
Date Data Arrived at EDR: 02/03/2017  
Date Made Active in Reports: 04/07/2017  
Number of Days to Update: 63

Source: Environmental Protection Agency  
Telephone: 615-532-8599  
Last EDR Contact: 08/16/2019  
Next Scheduled EDR Contact: 11/25/2019  
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: 06/24/2019  
Date Data Arrived at EDR: 06/26/2019  
Date Made Active in Reports: 09/23/2019  
Number of Days to Update: 89

Source: Environmental Protection Agency  
Telephone: 202-566-1917  
Last EDR Contact: 09/24/2019  
Next Scheduled EDR Contact: 01/06/2020  
Data Release Frequency: Quarterly

## EPA WATCH LIST: EPA WATCH LIST

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

Date of Government Version: 08/30/2013  
Date Data Arrived at EDR: 03/21/2014  
Date Made Active in Reports: 06/17/2014  
Number of Days to Update: 88

Source: Environmental Protection Agency  
Telephone: 617-520-3000  
Last EDR Contact: 08/05/2019  
Next Scheduled EDR Contact: 11/18/2019  
Data Release Frequency: Quarterly

## 2020 COR ACTION: 2020 Corrective Action Program List

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

Date of Government Version: 09/30/2017  
Date Data Arrived at EDR: 05/08/2018  
Date Made Active in Reports: 07/20/2018  
Number of Days to Update: 73

Source: Environmental Protection Agency  
Telephone: 703-308-4044  
Last EDR Contact: 08/09/2019  
Next Scheduled EDR Contact: 11/18/2019  
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: 12/31/2016  
Date Data Arrived at EDR: 06/21/2017  
Date Made Active in Reports: 01/05/2018  
Number of Days to Update: 198

Source: EPA  
Telephone: 202-260-5521  
Last EDR Contact: 09/19/2019  
Next Scheduled EDR Contact: 12/30/2019  
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.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 12/31/2016  
Date Data Arrived at EDR: 01/10/2018  
Date Made Active in Reports: 01/12/2018  
Number of Days to Update: 2

Source: EPA  
Telephone: 202-566-0250  
Last EDR Contact: 08/23/2019  
Next Scheduled EDR Contact: 12/02/2019  
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: 09/30/2018  
Date Data Arrived at EDR: 04/24/2019  
Date Made Active in Reports: 08/08/2019  
Number of Days to Update: 106

Source: EPA  
Telephone: 202-564-4203  
Last EDR Contact: 07/26/2019  
Next Scheduled EDR Contact: 11/04/2019  
Data Release Frequency: Annually

## ROD: Records Of Decision

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

Date of Government Version: 07/19/2019  
Date Data Arrived at EDR: 07/30/2019  
Date Made Active in Reports: 09/03/2019  
Number of Days to Update: 35

Source: EPA  
Telephone: 703-416-0223  
Last EDR Contact: 10/02/2019  
Next Scheduled EDR Contact: 12/16/2019  
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: 04/25/2019  
Date Data Arrived at EDR: 05/02/2019  
Date Made Active in Reports: 05/23/2019  
Number of Days to Update: 21

Source: Environmental Protection Agency  
Telephone: 202-564-8600  
Last EDR Contact: 07/22/2019  
Next Scheduled EDR Contact: 11/04/2019  
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

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## PRP: Potentially Responsible Parties

A listing of verified Potentially Responsible Parties

Date of Government Version: 08/20/2019	Source: EPA
Date Data Arrived at EDR: 09/05/2019	Telephone: 202-564-6023
Date Made Active in Reports: 09/23/2019	Last EDR Contact: 10/02/2019
Number of Days to Update: 18	Next Scheduled EDR Contact: 11/18/2019
	Data Release Frequency: Quarterly

## PADS: PCB Activity Database System

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

Date of Government Version: 03/20/2019	Source: EPA
Date Data Arrived at EDR: 04/10/2019	Telephone: 202-566-0500
Date Made Active in Reports: 05/14/2019	Last EDR Contact: 10/11/2019
Number of Days to Update: 34	Next Scheduled EDR Contact: 01/20/2020
	Data Release Frequency: Annually

## ICIS: Integrated Compliance Information System

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

Date of Government Version: 11/18/2016	Source: Environmental Protection Agency
Date Data Arrived at EDR: 11/23/2016	Telephone: 202-564-2501
Date Made Active in Reports: 02/10/2017	Last EDR Contact: 10/07/2019
Number of Days to Update: 79	Next Scheduled EDR Contact: 01/20/2020
	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: 08/18/2017
Number of Days to Update: 25	Next Scheduled EDR Contact: 12/04/2017
	Data Release Frequency: No Update Planned

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

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

Date of Government Version: 04/09/2009	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: 08/18/2017
Number of Days to Update: 25	Next Scheduled EDR Contact: 12/04/2017
	Data Release Frequency: No Update Planned

## MLTS: Material Licensing Tracking System

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

Date of Government Version: 06/20/2019	Source: Nuclear Regulatory Commission
Date Data Arrived at EDR: 06/20/2019	Telephone: 301-415-7169
Date Made Active in Reports: 08/08/2019	Last EDR Contact: 09/04/2019
Number of Days to Update: 49	Next Scheduled EDR Contact: 11/04/2019
	Data Release Frequency: Quarterly

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## 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: 09/06/2019
Number of Days to Update: 76	Next Scheduled EDR Contact: 12/16/2019
	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: 09/03/2019
Number of Days to Update: 40	Next Scheduled EDR Contact: 12/16/2019
	Data Release Frequency: Varies

## PCB TRANSFORMER: PCB Transformer Registration Database

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

Date of Government Version: 05/24/2017	Source: Environmental Protection Agency
Date Data Arrived at EDR: 11/30/2017	Telephone: 202-566-0517
Date Made Active in Reports: 12/15/2017	Last EDR Contact: 08/09/2019
Number of Days to Update: 15	Next Scheduled EDR Contact: 11/04/2019
	Data Release Frequency: Varies

## RADINFO: Radiation Information Database

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

Date of Government Version: 07/01/2019	Source: Environmental Protection Agency
Date Data Arrived at EDR: 07/01/2019	Telephone: 202-343-9775
Date Made Active in Reports: 09/23/2019	Last EDR Contact: 10/01/2019
Number of Days to Update: 84	Next Scheduled EDR Contact: 01/13/2020
	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.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 10/19/2006  
Date Data Arrived at EDR: 03/01/2007  
Date Made Active in Reports: 04/10/2007  
Number of Days to Update: 40

Source: Environmental Protection Agency  
Telephone: 202-564-2501  
Last EDR Contact: 12/17/2008  
Next Scheduled EDR Contact: 03/17/2008  
Data Release Frequency: No Update Planned

## DOT OPS: Incident and Accident Data

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

Date of Government Version: 04/01/2019  
Date Data Arrived at EDR: 04/30/2019  
Date Made Active in Reports: 08/08/2019  
Number of Days to Update: 100

Source: Department of Transportation, Office of Pipeline Safety  
Telephone: 202-366-4595  
Last EDR Contact: 07/31/2019  
Next Scheduled EDR Contact: 11/11/2019  
Data Release Frequency: Quarterly

## CONSENT: Superfund (CERCLA) Consent Decrees

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

Date of Government Version: 06/30/2019  
Date Data Arrived at EDR: 07/16/2019  
Date Made Active in Reports: 10/02/2019  
Number of Days to Update: 78

Source: Department of Justice, Consent Decree Library  
Telephone: Varies  
Last EDR Contact: 10/02/2019  
Next Scheduled EDR Contact: 01/20/2020  
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: 12/31/2015  
Date Data Arrived at EDR: 02/22/2017  
Date Made Active in Reports: 09/28/2017  
Number of Days to Update: 218

Source: EPA/NTIS  
Telephone: 800-424-9346  
Last EDR Contact: 09/16/2019  
Next Scheduled EDR Contact: 01/06/2020  
Data Release Frequency: Biennially

## INDIAN RESERV: Indian Reservations

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

Date of Government Version: 12/31/2014  
Date Data Arrived at EDR: 07/14/2015  
Date Made Active in Reports: 01/10/2017  
Number of Days to Update: 546

Source: USGS  
Telephone: 202-208-3710  
Last EDR Contact: 10/06/2019  
Next Scheduled EDR Contact: 01/19/2020  
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: 08/08/2017  
Date Data Arrived at EDR: 09/11/2018  
Date Made Active in Reports: 09/14/2018  
Number of Days to Update: 3

Source: Department of Energy  
Telephone: 202-586-3559  
Last EDR Contact: 07/30/2019  
Next Scheduled EDR Contact: 11/18/2019  
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.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 06/23/2017  
Date Data Arrived at EDR: 10/11/2017  
Date Made Active in Reports: 11/03/2017  
Number of Days to Update: 23

Source: Department of Energy  
Telephone: 505-845-0011  
Last EDR Contact: 08/21/2019  
Next Scheduled EDR Contact: 12/02/2019  
Data Release Frequency: Varies

## LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 07/19/2019  
Date Data Arrived at EDR: 07/30/2019  
Date Made Active in Reports: 09/03/2019  
Number of Days to Update: 35

Source: Environmental Protection Agency  
Telephone: 703-603-8787  
Last EDR Contact: 10/02/2019  
Next Scheduled EDR Contact: 01/13/2020  
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

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

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

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

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

Date of Government Version: 10/12/2016  
Date Data Arrived at EDR: 10/26/2016  
Date Made Active in Reports: 02/03/2017  
Number of Days to Update: 100

Source: EPA  
Telephone: 202-564-2496  
Last EDR Contact: 09/26/2017  
Next Scheduled EDR Contact: 01/08/2018  
Data Release Frequency: Annually

## US AIRS MINOR: Air Facility System Data

A listing of minor source facilities.

Date of Government Version: 10/12/2016  
Date Data Arrived at EDR: 10/26/2016  
Date Made Active in Reports: 02/03/2017  
Number of Days to Update: 100

Source: EPA  
Telephone: 202-564-2496  
Last EDR Contact: 09/26/2017  
Next Scheduled EDR Contact: 01/08/2018  
Data Release Frequency: Annually

## US MINES: Mines Master Index File

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

Date of Government Version: 05/03/2019  
Date Data Arrived at EDR: 05/29/2019  
Date Made Active in Reports: 08/08/2019  
Number of Days to Update: 71

Source: Department of Labor, Mine Safety and Health Administration  
Telephone: 303-231-5959  
Last EDR Contact: 08/27/2019  
Next Scheduled EDR Contact: 12/09/2019  
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.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 08/30/2019  
Next Scheduled EDR Contact: 12/09/2019  
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: 08/30/2019  
Next Scheduled EDR Contact: 12/09/2019  
Data Release Frequency: Varies

## ABANDONED MINES: Abandoned Mines

An inventory of land and water impacted by past mining (primarily coal mining) is maintained by OSMRE to provide information needed to implement the Surface Mining Control and Reclamation Act of 1977 (SMCRA). The inventory contains information on the location, type, and extent of AML impacts, as well as, information on the cost associated with the reclamation of those problems. The inventory is based upon field surveys by State, Tribal, and OSMRE program officials. It is dynamic to the extent that it is modified as new problems are identified and existing problems are reclaimed.

Date of Government Version: 03/27/2019  
Date Data Arrived at EDR: 03/28/2019  
Date Made Active in Reports: 05/01/2019  
Number of Days to Update: 34

Source: Department of Interior  
Telephone: 202-208-2609  
Last EDR Contact: 09/10/2019  
Next Scheduled EDR Contact: 12/23/2019  
Data Release Frequency: Quarterly

## 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: 05/03/2019  
Date Data Arrived at EDR: 06/05/2019  
Date Made Active in Reports: 09/03/2019  
Number of Days to Update: 90

Source: EPA  
Telephone: (415) 947-8000  
Last EDR Contact: 09/04/2019  
Next Scheduled EDR Contact: 12/16/2019  
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: 07/06/2019  
Date Data Arrived at EDR: 07/09/2019  
Date Made Active in Reports: 10/02/2019  
Number of Days to Update: 85

Source: Environmental Protection Agency  
Telephone: 202-564-2280  
Last EDR Contact: 10/08/2019  
Next Scheduled EDR Contact: 01/20/2020  
Data Release Frequency: Quarterly

## UXO: Unexploded Ordnance Sites

A listing of unexploded ordnance site locations

Date of Government Version: 12/31/2017  
Date Data Arrived at EDR: 01/17/2019  
Date Made Active in Reports: 04/01/2019  
Number of Days to Update: 74

Source: Department of Defense  
Telephone: 703-704-1564  
Last EDR Contact: 10/10/2019  
Next Scheduled EDR Contact: 01/27/2020  
Data Release Frequency: Varies



# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## DOCKET HWC: Hazardous Waste Compliance Docket Listing

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

Date of Government Version: 05/31/2018	Source: Environmental Protection Agency
Date Data Arrived at EDR: 07/26/2018	Telephone: 202-564-0527
Date Made Active in Reports: 10/05/2018	Last EDR Contact: 08/21/2019
Number of Days to Update: 71	Next Scheduled EDR Contact: 12/09/2019
	Data Release Frequency: Varies

## FUELS PROGRAM: EPA Fuels Program Registered Listing

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

Date of Government Version: 05/20/2019	Source: EPA
Date Data Arrived at EDR: 05/21/2019	Telephone: 800-385-6164
Date Made Active in Reports: 08/08/2019	Last EDR Contact: 08/20/2019
Number of Days to Update: 79	Next Scheduled EDR Contact: 12/02/2019
	Data Release Frequency: Quarterly

## 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: 06/24/2019	Source: CAL EPA/Office of Emergency Information
Date Data Arrived at EDR: 06/25/2019	Telephone: 916-323-3400
Date Made Active in Reports: 08/21/2019	Last EDR Contact: 09/24/2019
Number of Days to Update: 57	Next Scheduled EDR Contact: 01/06/2020
	Data Release Frequency: Quarterly

## CUPA LIVERMORE-PLEASANTON: CUPA Facility Listing

list of facilities associated with the various CUPA programs in Livermore-Pleasanton

Date of Government Version: 05/01/2019	Source: Livermore-Pleasanton Fire Department
Date Data Arrived at EDR: 05/14/2019	Telephone: 925-454-2361
Date Made Active in Reports: 07/17/2019	Last EDR Contact: 08/15/2019
Number of Days to Update: 64	Next Scheduled EDR Contact: 11/25/2019
	Data Release Frequency: Varies

## CUPA SAN FRANCISCO CO: CUPA Facility Listing

Cupa facilities

Date of Government Version: 08/01/2019	Source: San Francisco County Department of Environmental Health
Date Data Arrived at EDR: 08/02/2019	Telephone: 415-252-3896
Date Made Active in Reports: 10/09/2019	Last EDR Contact: 07/31/2019
Number of Days to Update: 68	Next Scheduled EDR Contact: 11/18/2019
	Data Release Frequency: Varies

## DRYCLEAN SOUTH COAST: South Coast Air Quality Management District Drycleaner Listing

A listing of dry cleaners in the South Coast Air Quality Management District

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 03/19/2019  
Date Data Arrived at EDR: 03/22/2019  
Date Made Active in Reports: 04/09/2019  
Number of Days to Update: 18

Source: South Coast Air Quality Management District  
Telephone: 909-396-3211  
Last EDR Contact: 08/21/2019  
Next Scheduled EDR Contact: 12/09/2019  
Data Release Frequency: Varies

**DRYCLEAN AVAQMD:** Antelope Valley Air Quality Management District Drycleaner Listing  
A listing of dry cleaners in the Antelope Valley Air Quality Management District.

Date of Government Version: 06/03/2019  
Date Data Arrived at EDR: 06/04/2019  
Date Made Active in Reports: 08/08/2019  
Number of Days to Update: 65

Source: Antelope Valley Air Quality Management District  
Telephone: 661-723-8070  
Last EDR Contact: 08/28/2019  
Next Scheduled EDR Contact: 12/16/2019  
Data Release Frequency: Varies

**DRYCLEANERS:** Cleaner Facilities

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

Date of Government Version: 06/04/2019  
Date Data Arrived at EDR: 06/28/2019  
Date Made Active in Reports: 08/22/2019  
Number of Days to Update: 55

Source: Department of Toxic Substance Control  
Telephone: 916-327-4498  
Last EDR Contact: 08/28/2019  
Next Scheduled EDR Contact: 12/16/2019  
Data Release Frequency: Annually

**EMI:** Emissions Inventory Data

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

Date of Government Version: 12/31/2017  
Date Data Arrived at EDR: 06/24/2019  
Date Made Active in Reports: 08/22/2019  
Number of Days to Update: 59

Source: California Air Resources Board  
Telephone: 916-322-2990  
Last EDR Contact: 09/18/2019  
Next Scheduled EDR Contact: 12/30/2019  
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: 07/19/2019  
Date Data Arrived at EDR: 07/22/2019  
Date Made Active in Reports: 09/26/2019  
Number of Days to Update: 66

Source: State Water Resources Control Board  
Telephone: 916-445-9379  
Last EDR Contact: 07/18/2019  
Next Scheduled EDR Contact: 11/04/2019  
Data Release Frequency: Varies

**Financial Assurance 1:** Financial Assurance Information Listing

Financial Assurance information

Date of Government Version: 07/19/2019  
Date Data Arrived at EDR: 07/23/2019  
Date Made Active in Reports: 09/30/2019  
Number of Days to Update: 69

Source: Department of Toxic Substances Control  
Telephone: 916-255-3628  
Last EDR Contact: 07/19/2019  
Next Scheduled EDR Contact: 11/04/2019  
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.

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 05/15/2019  
Date Data Arrived at EDR: 05/16/2019  
Date Made Active in Reports: 07/18/2019  
Number of Days to Update: 63

Source: California Integrated Waste Management Board  
Telephone: 916-341-6066  
Last EDR Contact: 08/07/2019  
Next Scheduled EDR Contact: 11/25/2019  
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: 12/31/2017  
Date Data Arrived at EDR: 05/29/2019  
Date Made Active in Reports: 07/22/2019  
Number of Days to Update: 54

Source: California Environmental Protection Agency  
Telephone: 916-255-1136  
Last EDR Contact: 10/11/2019  
Next Scheduled EDR Contact: 01/20/2020  
Data Release Frequency: Annually

## ICE: ICE

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

Date of Government Version: 05/20/2019  
Date Data Arrived at EDR: 05/21/2019  
Date Made Active in Reports: 07/18/2019  
Number of Days to Update: 58

Source: Department of Toxic Substances Control  
Telephone: 877-786-9427  
Last EDR Contact: 08/20/2019  
Next Scheduled EDR Contact: 12/02/2019  
Data Release Frequency: Quarterly

## HIST CORTESE: Hazardous Waste & Substance Site List

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

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

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

## HWP: EnviroStor Permitted Facilities Listing

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

Date of Government Version: 05/20/2019  
Date Data Arrived at EDR: 05/21/2019  
Date Made Active in Reports: 07/18/2019  
Number of Days to Update: 58

Source: Department of Toxic Substances Control  
Telephone: 916-323-3400  
Last EDR Contact: 08/20/2019  
Next Scheduled EDR Contact: 12/02/2019  
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: 07/08/2019  
Date Data Arrived at EDR: 07/09/2019  
Date Made Active in Reports: 09/08/2019  
Number of Days to Update: 73

Source: Department of Toxic Substances Control  
Telephone: 916-440-7145  
Last EDR Contact: 10/08/2019  
Next Scheduled EDR Contact: 01/20/2020  
Data Release Frequency: Quarterly

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## MINES: Mines Site Location Listing

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

Date of Government Version: 06/10/2019	Source: Department of Conservation
Date Data Arrived at EDR: 06/11/2019	Telephone: 916-322-1080
Date Made Active in Reports: 08/15/2019	Last EDR Contact: 09/09/2019
Number of Days to Update: 65	Next Scheduled EDR Contact: 12/23/2019
	Data Release Frequency: Quarterly

## MWMP: Medical Waste Management Program Listing

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

Date of Government Version: 05/17/2019	Source: Department of Public Health
Date Data Arrived at EDR: 06/04/2019	Telephone: 916-558-1784
Date Made Active in Reports: 08/09/2019	Last EDR Contact: 09/04/2019
Number of Days to Update: 66	Next Scheduled EDR Contact: 12/16/2019
	Data Release Frequency: Varies

## NPDES: NPDES Permits Listing

A listing of NPDES permits, including stormwater.

Date of Government Version: 05/13/2019	Source: State Water Resources Control Board
Date Data Arrived at EDR: 05/14/2019	Telephone: 916-445-9379
Date Made Active in Reports: 07/17/2019	Last EDR Contact: 08/13/2019
Number of Days to Update: 64	Next Scheduled EDR Contact: 11/25/2019
	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: 06/04/2019	Source: Department of Pesticide Regulation
Date Data Arrived at EDR: 06/04/2019	Telephone: 916-445-4038
Date Made Active in Reports: 08/09/2019	Last EDR Contact: 09/04/2019
Number of Days to Update: 66	Next Scheduled EDR Contact: 12/16/2019
	Data Release Frequency: Quarterly

## PROC: Certified Processors Database

A listing of certified processors.

Date of Government Version: 06/11/2019	Source: Department of Conservation
Date Data Arrived at EDR: 06/12/2019	Telephone: 916-323-3836
Date Made Active in Reports: 08/15/2019	Last EDR Contact: 09/09/2019
Number of Days to Update: 64	Next Scheduled EDR Contact: 12/23/2019
	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: 06/17/2019	Source: State Water Resources Control Board
Date Data Arrived at EDR: 06/18/2019	Telephone: 916-445-3846
Date Made Active in Reports: 08/22/2019	Last EDR Contact: 09/16/2019
Number of Days to Update: 65	Next Scheduled EDR Contact: 12/30/2019
	Data Release Frequency: No Update Planned

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## UIC: UIC Listing

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

Date of Government Version: 04/27/2018	Source: Department of Conservation
Date Data Arrived at EDR: 06/13/2018	Telephone: 916-445-2408
Date Made Active in Reports: 07/17/2018	Last EDR Contact: 08/20/2019
Number of Days to Update: 34	Next Scheduled EDR Contact: 12/23/2019
	Data Release Frequency: Varies

## UIC GEO: Underground Injection Control Sites (GEOTRACKER)

Underground control injection sites

Date of Government Version: 06/10/2019	Source: State Water Resource Control Board
Date Data Arrived at EDR: 06/11/2019	Telephone: 866-480-1028
Date Made Active in Reports: 07/24/2019	Last EDR Contact: 09/09/2019
Number of Days to Update: 43	Next Scheduled EDR Contact: 12/23/2019
	Data Release Frequency: Varies

## WASTEWATER PITS: Oil Wastewater Pits Listing

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

Date of Government Version: 05/08/2018	Source: RWQCB, Central Valley Region
Date Data Arrived at EDR: 07/11/2018	Telephone: 559-445-5577
Date Made Active in Reports: 09/13/2018	Last EDR Contact: 10/11/2019
Number of Days to Update: 64	Next Scheduled EDR Contact: 01/20/2020
	Data Release Frequency: Varies

## WDS: Waste Discharge System

Sites which have been issued waste discharge requirements.

Date of Government Version: 06/19/2007	Source: State Water Resources Control Board
Date Data Arrived at EDR: 06/20/2007	Telephone: 916-341-5227
Date Made Active in Reports: 06/29/2007	Last EDR Contact: 08/14/2019
Number of Days to Update: 9	Next Scheduled EDR Contact: 12/02/2019
	Data Release Frequency: No Update Planned

## WIP: Well Investigation Program Case List

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

Date of Government Version: 07/03/2009	Source: Los Angeles Water Quality Control Board
Date Data Arrived at EDR: 07/21/2009	Telephone: 213-576-6726
Date Made Active in Reports: 08/03/2009	Last EDR Contact: 09/19/2019
Number of Days to Update: 13	Next Scheduled EDR Contact: 01/06/2020
	Data Release Frequency: No Update Planned

## MILITARY PRIV SITES: Military Privatized Sites (GEOTRACKER)

Military privatized sites

Date of Government Version: 06/10/2019	Source: State Water Resources Control Board
Date Data Arrived at EDR: 06/11/2019	Telephone: 866-480-1028
Date Made Active in Reports: 07/24/2019	Last EDR Contact: 09/09/2019
Number of Days to Update: 43	Next Scheduled EDR Contact: 12/23/2019
	Data Release Frequency: Varies

## PROJECT: Project Sites (GEOTRACKER)

Projects sites

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 06/10/2019  
Date Data Arrived at EDR: 06/11/2019  
Date Made Active in Reports: 07/24/2019  
Number of Days to Update: 43

Source: State Water Resources Control Board  
Telephone: 866-480-1028  
Last EDR Contact: 09/09/2019  
Next Scheduled EDR Contact: 12/23/2019  
Data Release Frequency: Varies

## WDR: Waste Discharge Requirements Listing

In general, the Waste Discharge Requirements (WDRs) Program (sometimes also referred to as the "Non Chapter 15 (Non 15) Program") regulates point discharges that are exempt pursuant to Subsection 20090 of Title 27 and not subject to the Federal Water Pollution Control Act. Exemptions from Title 27 may be granted for nine categories of discharges (e.g., sewage, wastewater, etc.) that meet, and continue to meet, the preconditions listed for each specific exemption. The scope of the WDRs Program also includes the discharge of wastes classified as inert, pursuant to section 20230 of Title 27.

Date of Government Version: 06/11/2019  
Date Data Arrived at EDR: 06/12/2019  
Date Made Active in Reports: 08/15/2019  
Number of Days to Update: 64

Source: State Water Resources Control Board  
Telephone: 916-341-5810  
Last EDR Contact: 09/09/2019  
Next Scheduled EDR Contact: 12/23/2019  
Data Release Frequency: Quarterly

## CIWQS: California Integrated Water Quality System

The California Integrated Water Quality System (CIWQS) is a computer system used by the State and Regional Water Quality Control Boards to track information about places of environmental interest, manage permits and other orders, track inspections, and manage violations and enforcement activities.

Date of Government Version: 06/04/2019  
Date Data Arrived at EDR: 06/04/2019  
Date Made Active in Reports: 08/08/2019  
Number of Days to Update: 65

Source: State Water Resources Control Board  
Telephone: 866-794-4977  
Last EDR Contact: 09/04/2019  
Next Scheduled EDR Contact: 12/16/2019  
Data Release Frequency: Varies

## CERS: CalEPA Regulated Site Portal Data

The CalEPA Regulated Site Portal database combines data about environmentally regulated sites and facilities in California into a single database. It combines data from a variety of state and federal databases, and provides an overview of regulated activities across the spectrum of environmental programs for any given location in California. These activities include hazardous materials and waste, state and federal cleanups, impacted ground and surface waters, and toxic materials

Date of Government Version: 08/14/2019  
Date Data Arrived at EDR: 08/14/2019  
Date Made Active in Reports: 08/21/2019  
Number of Days to Update: 7

Source: California Environmental Protection Agency  
Telephone: 916-323-2514  
Last EDR Contact: 08/14/2019  
Next Scheduled EDR Contact: 11/04/2019  
Data Release Frequency: Varies

## NON-CASE INFO: Non-Case Information Sites (GEOTRACKER)

Non-Case Information sites

Date of Government Version: 06/10/2019  
Date Data Arrived at EDR: 06/11/2019  
Date Made Active in Reports: 07/24/2019  
Number of Days to Update: 43

Source: State Water Resources Control Board  
Telephone: 866-480-1028  
Last EDR Contact: 09/09/2019  
Next Scheduled EDR Contact: 12/23/2019  
Data Release Frequency: Varies

## OTHER OIL GAS: Other Oil & Gas Projects Sites (GEOTRACKER)

Other Oil & Gas Projects sites

Date of Government Version: 06/10/2019  
Date Data Arrived at EDR: 06/11/2019  
Date Made Active in Reports: 07/24/2019  
Number of Days to Update: 43

Source: State Water Resources Control Board  
Telephone: 866-480-1028  
Last EDR Contact: 09/09/2019  
Next Scheduled EDR Contact: 12/23/2019  
Data Release Frequency: Varies

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## PROD WATER PONDS: Produced Water Ponds Sites (GEOTRACKER)

Produced water ponds sites

Date of Government Version: 06/10/2019

Date Data Arrived at EDR: 06/11/2019

Date Made Active in Reports: 07/24/2019

Number of Days to Update: 43

Source: State Water Resources Control Board

Telephone: 866-480-1028

Last EDR Contact: 09/09/2019

Next Scheduled EDR Contact: 12/23/2019

Data Release Frequency: Varies

## SAMPLING POINT: Sampling Point ? Public Sites (GEOTRACKER)

Sampling point - public sites

Date of Government Version: 06/10/2019

Date Data Arrived at EDR: 06/11/2019

Date Made Active in Reports: 07/24/2019

Number of Days to Update: 43

Source: State Water Resources Control Board

Telephone: 866-480-1028

Last EDR Contact: 09/09/2019

Next Scheduled EDR Contact: 12/23/2019

Data Release Frequency: Varies

## WELL STIM PROJ: Well Stimulation Project (GEOTRACKER)

Includes areas of groundwater monitoring plans, a depiction of the monitoring network, and the facilities, boundaries, and subsurface characteristics of the oilfield and the features (oil and gas wells, produced water ponds, UIC wells, water supply wells, etc?) being monitored

Date of Government Version: 06/10/2019

Date Data Arrived at EDR: 06/11/2019

Date Made Active in Reports: 07/24/2019

Number of Days to Update: 43

Source: State Water Resources Control Board

Telephone: 866-480-1028

Last EDR Contact: 09/09/2019

Next Scheduled EDR Contact: 12/23/2019

Data Release Frequency: Varies

## EDR HIGH RISK HISTORICAL RECORDS

### *EDR Exclusive Records*

#### EDR MGP: EDR Proprietary Manufactured Gas Plants

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

Date of Government Version: N/A

Date Data Arrived at EDR: N/A

Date Made Active in Reports: N/A

Number of Days to Update: N/A

Source: EDR, Inc.

Telephone: N/A

Last EDR Contact: N/A

Next Scheduled EDR Contact: N/A

Data Release Frequency: No Update Planned

#### EDR Hist Auto: EDR Exclusive Historical Auto Stations

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

Date of Government Version: N/A

Date Data Arrived at EDR: N/A

Date Made Active in Reports: N/A

Number of Days to Update: N/A

Source: EDR, Inc.

Telephone: N/A

Last EDR Contact: N/A

Next Scheduled EDR Contact: N/A

Data Release Frequency: Varies

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## EDR Hist Cleaner: EDR Exclusive Historical Cleaners

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

Date of Government Version: N/A	Source: EDR, Inc.
Date Data Arrived at EDR: N/A	Telephone: N/A
Date Made Active in Reports: N/A	Last EDR Contact: N/A
Number of Days to Update: 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	Source: Department of Resources Recycling and Recovery
Date Data Arrived at EDR: 07/01/2013	Telephone: N/A
Date Made Active in Reports: 01/13/2014	Last EDR Contact: 06/01/2012
Number of Days to Update: 196	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	Source: State Water Resources Control Board
Date Data Arrived at EDR: 07/01/2013	Telephone: N/A
Date Made Active in Reports: 12/30/2013	Last EDR Contact: 06/01/2012
Number of Days to Update: 182	Next Scheduled EDR Contact: N/A
	Data Release Frequency: Varies

## COUNTY RECORDS

### ALAMEDA COUNTY:

#### CS ALAMEDA: Contaminated Sites

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

Date of Government Version: 01/09/2019	Source: Alameda County Environmental Health Services
Date Data Arrived at EDR: 01/11/2019	Telephone: 510-567-6700
Date Made Active in Reports: 03/05/2019	Last EDR Contact: 10/02/2019
Number of Days to Update: 53	Next Scheduled EDR Contact: 01/20/2020
	Data Release Frequency: Semi-Annually

#### UST ALAMEDA: Underground Tanks

Underground storage tank sites located in Alameda county.

Date of Government Version: 04/10/2019	Source: Alameda County Environmental Health Services
Date Data Arrived at EDR: 04/11/2019	Telephone: 510-567-6700
Date Made Active in Reports: 06/20/2019	Last EDR Contact: 10/02/2019
Number of Days to Update: 70	Next Scheduled EDR Contact: 04/24/2047
	Data Release Frequency: Semi-Annually

### AMADOR COUNTY:



# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## CUPA AMADOR: CUPA Facility List Cupa Facility List

Date of Government Version: 06/27/2019  
Date Data Arrived at EDR: 06/28/2019  
Date Made Active in Reports: 07/24/2019  
Number of Days to Update: 26

Source: Amador County Environmental Health  
Telephone: 209-223-6439  
Last EDR Contact: 08/28/2019  
Next Scheduled EDR Contact: 12/16/2019  
Data Release Frequency: Varies

## BUTTE COUNTY:

### CUPA BUTTE: CUPA Facility Listing Cupa facility list.

Date of Government Version: 04/21/2017  
Date Data Arrived at EDR: 04/25/2017  
Date Made Active in Reports: 08/09/2017  
Number of Days to Update: 106

Source: Public Health Department  
Telephone: 530-538-7149  
Last EDR Contact: 10/02/2019  
Next Scheduled EDR Contact: 01/20/2020  
Data Release Frequency: No Update Planned

## CALVERAS COUNTY:

### CUPA CALVERAS: CUPA Facility Listing Cupa Facility Listing

Date of Government Version: 08/05/2019  
Date Data Arrived at EDR: 08/07/2019  
Date Made Active in Reports: 10/09/2019  
Number of Days to Update: 63

Source: Calveras County Environmental Health  
Telephone: 209-754-6399  
Last EDR Contact: 09/23/2019  
Next Scheduled EDR Contact: 01/06/2020  
Data Release Frequency: Quarterly

## COLUSA COUNTY:

### CUPA COLUSA: CUPA Facility List Cupa facility list.

Date of Government Version: 05/17/2019  
Date Data Arrived at EDR: 05/21/2019  
Date Made Active in Reports: 07/18/2019  
Number of Days to Update: 58

Source: Health & Human Services  
Telephone: 530-458-0396  
Last EDR Contact: 08/14/2019  
Next Scheduled EDR Contact: 11/18/2019  
Data Release Frequency: Semi-Annually

## CONTRA COSTA COUNTY:

### SL CONTRA COSTA: Site List

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

Date of Government Version: 05/22/2019  
Date Data Arrived at EDR: 05/23/2019  
Date Made Active in Reports: 07/18/2019  
Number of Days to Update: 56

Source: Contra Costa Health Services Department  
Telephone: 925-646-2286  
Last EDR Contact: 07/26/2019  
Next Scheduled EDR Contact: 11/11/2019  
Data Release Frequency: Semi-Annually

## DEL NORTE COUNTY:

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## CUPA DEL NORTE: CUPA Facility List Cupa Facility list

Date of Government Version: 07/30/2019  
Date Data Arrived at EDR: 08/02/2019  
Date Made Active in Reports: 10/09/2019  
Number of Days to Update: 68

Source: Del Norte County Environmental Health Division  
Telephone: 707-465-0426  
Last EDR Contact: 07/25/2019  
Next Scheduled EDR Contact: 11/11/2019  
Data Release Frequency: Varies

## EL DORADO COUNTY:

### CUPA EL DORADO: CUPA Facility List CUPA facility list.

Date of Government Version: 06/05/2019  
Date Data Arrived at EDR: 06/06/2019  
Date Made Active in Reports: 07/23/2019  
Number of Days to Update: 47

Source: El Dorado County Environmental Management Department  
Telephone: 530-621-6623  
Last EDR Contact: 09/05/2019  
Next Scheduled EDR Contact: 11/11/2019  
Data Release Frequency: Varies

## FRESNO COUNTY:

### CUPA FRESNO: CUPA Resources List

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

Date of Government Version: 07/11/2019  
Date Data Arrived at EDR: 07/11/2019  
Date Made Active in Reports: 09/20/2019  
Number of Days to Update: 71

Source: Dept. of Community Health  
Telephone: 559-445-3271  
Last EDR Contact: 10/09/2019  
Next Scheduled EDR Contact: 01/13/2020  
Data Release Frequency: Semi-Annually

## GLENN COUNTY:

### CUPA GLENN: CUPA Facility List Cupa facility list

Date of Government Version: 01/22/2018  
Date Data Arrived at EDR: 01/24/2018  
Date Made Active in Reports: 03/14/2018  
Number of Days to Update: 49

Source: Glenn County Air Pollution Control District  
Telephone: 830-934-6500  
Last EDR Contact: 07/19/2019  
Next Scheduled EDR Contact: 11/04/2019  
Data Release Frequency: No Update Planned

## HUMBOLDT COUNTY:

### CUPA HUMBOLDT: CUPA Facility List CUPA facility list.

Date of Government Version: 07/08/2019  
Date Data Arrived at EDR: 07/10/2019  
Date Made Active in Reports: 09/20/2019  
Number of Days to Update: 72

Source: Humboldt County Environmental Health  
Telephone: N/A  
Last EDR Contact: 08/19/2019  
Next Scheduled EDR Contact: 12/02/2019  
Data Release Frequency: Semi-Annually

## IMPERIAL COUNTY:

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## CUPA IMPERIAL: CUPA Facility List Cupa facility list.

Date of Government Version: 07/19/2019  
Date Data Arrived at EDR: 07/23/2019  
Date Made Active in Reports: 09/26/2019  
Number of Days to Update: 65

Source: San Diego Border Field Office  
Telephone: 760-339-2777  
Last EDR Contact: 07/19/2019  
Next Scheduled EDR Contact: 11/04/2019  
Data Release Frequency: Varies

## INYO COUNTY:

### CUPA INYO: CUPA Facility List Cupa facility list.

Date of Government Version: 04/02/2018  
Date Data Arrived at EDR: 04/03/2018  
Date Made Active in Reports: 06/14/2018  
Number of Days to Update: 72

Source: Inyo County Environmental Health Services  
Telephone: 760-878-0238  
Last EDR Contact: 08/14/2019  
Next Scheduled EDR Contact: 12/02/2019  
Data Release Frequency: Varies

## KERN COUNTY:

### UST KERN: Underground Storage Tank Sites & Tank Listing Kern County Sites and Tanks Listing.

Date of Government Version: 08/01/2019  
Date Data Arrived at EDR: 08/06/2019  
Date Made Active in Reports: 10/08/2019  
Number of Days to Update: 63

Source: Kern County Environment Health Services Department  
Telephone: 661-862-8700  
Last EDR Contact: 07/31/2019  
Next Scheduled EDR Contact: 11/18/2019  
Data Release Frequency: Quarterly

## KINGS COUNTY:

### CUPA KINGS: CUPA Facility List

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

Date of Government Version: 05/16/2019  
Date Data Arrived at EDR: 05/17/2019  
Date Made Active in Reports: 05/30/2019  
Number of Days to Update: 13

Source: Kings County Department of Public Health  
Telephone: 559-584-1411  
Last EDR Contact: 08/14/2019  
Next Scheduled EDR Contact: 12/02/2019  
Data Release Frequency: Varies

## LAKE COUNTY:

### CUPA LAKE: CUPA Facility List Cupa facility list

Date of Government Version: 05/30/2019  
Date Data Arrived at EDR: 05/31/2019  
Date Made Active in Reports: 07/23/2019  
Number of Days to Update: 53

Source: Lake County Environmental Health  
Telephone: 707-263-1164  
Last EDR Contact: 07/15/2019  
Next Scheduled EDR Contact: 10/28/2019  
Data Release Frequency: Varies

## LASSEN COUNTY:

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## CUPA LASSEN: CUPA Facility List Cupa facility list

Date of Government Version: 07/22/2019  
Date Data Arrived at EDR: 07/23/2019  
Date Made Active in Reports: 09/26/2019  
Number of Days to Update: 65

Source: Lassen County Environmental Health  
Telephone: 530-251-8528  
Last EDR Contact: 07/19/2019  
Next Scheduled EDR Contact: 11/04/2019  
Data Release Frequency: Varies

## LOS ANGELES COUNTY:

### AOCONCERN: Key Areas of Concerns in Los Angeles County

San Gabriel Valley areas where VOC contamination is at or above the MCL as designated by region 9 EPA office. Date of Government Version: 3/30/2009 Exide Site area is a cleanup plan of lead-impacted soil surrounding the former Exide Facility as designated by the DTSC. Date of Government Version: 7/17/2017

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

Source: N/A  
Telephone: N/A  
Last EDR Contact: 09/12/2019  
Next Scheduled EDR Contact: 12/30/2019  
Data Release Frequency: No Update Planned

### HMS LOS ANGELES: HMS: Street Number List

Industrial Waste and Underground Storage Tank Sites.

Date of Government Version: 07/09/2019  
Date Data Arrived at EDR: 07/11/2019  
Date Made Active in Reports: 09/20/2019  
Number of Days to Update: 71

Source: Department of Public Works  
Telephone: 626-458-3517  
Last EDR Contact: 10/02/2019  
Next Scheduled EDR Contact: 01/20/2020  
Data Release Frequency: Semi-Annually

### LF LOS ANGELES: List of Solid Waste Facilities

Solid Waste Facilities in Los Angeles County.

Date of Government Version: 07/15/2019  
Date Data Arrived at EDR: 07/17/2019  
Date Made Active in Reports: 09/26/2019  
Number of Days to Update: 71

Source: La County Department of Public Works  
Telephone: 818-458-5185  
Last EDR Contact: 07/17/2019  
Next Scheduled EDR Contact: 10/28/2019  
Data Release Frequency: Varies

### LF LOS ANGELES CITY: City of Los Angeles Landfills

Landfills owned and maintained by the City of Los Angeles.

Date of Government Version: 01/01/2019  
Date Data Arrived at EDR: 01/15/2019  
Date Made Active in Reports: 03/07/2019  
Number of Days to Update: 51

Source: Engineering & Construction Division  
Telephone: 213-473-7869  
Last EDR Contact: 10/09/2019  
Next Scheduled EDR Contact: 01/27/2020  
Data Release Frequency: Varies

### LOS ANGELES AST: Active & Inactive AST Inventory

A listing of active & inactive above ground petroleum storage tank site locations, located in the City of Los Angeles.

Date of Government Version: 06/01/2019  
Date Data Arrived at EDR: 06/25/2019  
Date Made Active in Reports: 08/22/2019  
Number of Days to Update: 58

Source: Los Angeles Fire Department  
Telephone: 213-978-3800  
Last EDR Contact: 09/27/2019  
Next Scheduled EDR Contact: 01/06/2020  
Data Release Frequency: Varies

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## LOS ANGELES CO LF METHANE: Methane Producing Landfills

This data was created on April 30, 2012 to represent known disposal sites in Los Angeles County that may produce and emanate methane gas. The shapefile contains disposal sites within Los Angeles County that once accepted degradable refuse material. Information used to create this data was extracted from a landfill survey performed by County Engineers (Major Waste System Map, 1973) as well as historical records from CalRecycle, Regional Water Quality Control Board, and Los Angeles County Department of Public Health

Date of Government Version: 04/30/2012	Source: Los Angeles County Department of Public Works
Date Data Arrived at EDR: 04/17/2019	Telephone: 626-458-6973
Date Made Active in Reports: 05/29/2019	Last EDR Contact: 07/19/2019
Number of Days to Update: 42	Next Scheduled EDR Contact: 10/28/2019
	Data Release Frequency: No Update Planned

## LOS ANGELES HM: Active & Inactive Hazardous Materials Inventory

A listing of active & inactive hazardous materials facility locations, located in the City of Los Angeles.

Date of Government Version: 06/01/2019	Source: Los Angeles Fire Department
Date Data Arrived at EDR: 06/25/2019	Telephone: 213-978-3800
Date Made Active in Reports: 08/22/2019	Last EDR Contact: 09/27/2019
Number of Days to Update: 58	Next Scheduled EDR Contact: 01/06/2020
	Data Release Frequency: Varies

## LOS ANGELES UST: Active & Inactive UST Inventory

A listing of active & inactive underground storage tank site locations and underground storage tank historical sites, located in the City of Los Angeles.

Date of Government Version: 06/01/2019	Source: Los Angeles Fire Department
Date Data Arrived at EDR: 06/25/2019	Telephone: 213-978-3800
Date Made Active in Reports: 08/22/2019	Last EDR Contact: 06/25/2019
Number of Days to Update: 58	Next Scheduled EDR Contact: 10/07/2019
	Data Release Frequency: Varies

## SITE MIT LOS ANGELES: Site Mitigation List

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

Date of Government Version: 07/15/2019	Source: Community Health Services
Date Data Arrived at EDR: 07/17/2019	Telephone: 323-890-7806
Date Made Active in Reports: 08/05/2019	Last EDR Contact: 07/17/2019
Number of Days to Update: 19	Next Scheduled EDR Contact: 10/28/2019
	Data Release Frequency: Annually

## UST EL SEGUNDO: City of El Segundo Underground Storage Tank

Underground storage tank sites located in El Segundo city.

Date of Government Version: 01/21/2017	Source: City of El Segundo Fire Department
Date Data Arrived at EDR: 04/19/2017	Telephone: 310-524-2236
Date Made Active in Reports: 05/10/2017	Last EDR Contact: 10/09/2019
Number of Days to Update: 21	Next Scheduled EDR Contact: 01/27/2020
	Data Release Frequency: No Update Planned

## UST LONG BEACH: City of Long Beach Underground Storage Tank

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

Date of Government Version: 04/22/2019	Source: City of Long Beach Fire Department
Date Data Arrived at EDR: 04/23/2019	Telephone: 562-570-2563
Date Made Active in Reports: 06/27/2019	Last EDR Contact: 07/19/2019
Number of Days to Update: 65	Next Scheduled EDR Contact: 11/04/2019
	Data Release Frequency: Varies

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

UST TORRANCE: City of Torrance Underground Storage Tank  
Underground storage tank sites located in the city of Torrance.

Date of Government Version: 06/27/2019	Source: City of Torrance Fire Department
Date Data Arrived at EDR: 07/30/2019	Telephone: 310-618-2973
Date Made Active in Reports: 10/02/2019	Last EDR Contact: 07/19/2019
Number of Days to Update: 64	Next Scheduled EDR Contact: 11/04/2019
	Data Release Frequency: Semi-Annually

MADERA COUNTY:

CUPA MADERA: CUPA Facility List

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

Date of Government Version: 05/28/2019	Source: Madera County Environmental Health
Date Data Arrived at EDR: 05/30/2019	Telephone: 559-675-7823
Date Made Active in Reports: 08/05/2019	Last EDR Contact: 08/14/2019
Number of Days to Update: 67	Next Scheduled EDR Contact: 12/02/2019
	Data Release Frequency: Varies

MARIN COUNTY:

UST MARIN: Underground Storage Tank Sites  
Currently permitted USTs in Marin County.

Date of Government Version: 09/26/2018	Source: Public Works Department Waste Management
Date Data Arrived at EDR: 10/04/2018	Telephone: 415-473-6647
Date Made Active in Reports: 11/02/2018	Last EDR Contact: 09/25/2019
Number of Days to Update: 29	Next Scheduled EDR Contact: 01/13/2020
	Data Release Frequency: Semi-Annually

MERCED COUNTY:

CUPA MERCED: CUPA Facility List  
CUPA facility list.

Date of Government Version: 05/29/2019	Source: Merced County Environmental Health
Date Data Arrived at EDR: 05/30/2019	Telephone: 209-381-1094
Date Made Active in Reports: 07/22/2019	Last EDR Contact: 08/14/2019
Number of Days to Update: 53	Next Scheduled EDR Contact: 12/02/2019
	Data Release Frequency: Varies

MONO COUNTY:

CUPA MONO: CUPA Facility List  
CUPA Facility List

Date of Government Version: 05/23/2019	Source: Mono County Health Department
Date Data Arrived at EDR: 05/30/2019	Telephone: 760-932-5580
Date Made Active in Reports: 07/22/2019	Last EDR Contact: 08/21/2019
Number of Days to Update: 53	Next Scheduled EDR Contact: 12/09/2019
	Data Release Frequency: Varies

MONTEREY COUNTY:

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## CUPA MONTEREY: CUPA Facility Listing

CUPA Program listing from the Environmental Health Division.

Date of Government Version: 07/25/2019  
Date Data Arrived at EDR: 07/30/2019  
Date Made Active in Reports: 09/30/2019  
Number of Days to Update: 62

Source: Monterey County Health Department  
Telephone: 831-796-1297  
Last EDR Contact: 09/30/2019  
Next Scheduled EDR Contact: 01/13/2020  
Data Release Frequency: Varies

## NAPA COUNTY:

### LUST NAPA: Sites With Reported Contamination

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

Date of Government Version: 01/09/2017  
Date Data Arrived at EDR: 01/11/2017  
Date Made Active in Reports: 03/02/2017  
Number of Days to Update: 50

Source: Napa County Department of Environmental Management  
Telephone: 707-253-4269  
Last EDR Contact: 08/21/2019  
Next Scheduled EDR Contact: 12/09/2019  
Data Release Frequency: No Update Planned

### UST NAPA: Closed and Operating Underground Storage Tank Sites

Underground storage tank sites located in Napa county.

Date of Government Version: 02/21/2019  
Date Data Arrived at EDR: 02/22/2019  
Date Made Active in Reports: 03/08/2019  
Number of Days to Update: 14

Source: Napa County Department of Environmental Management  
Telephone: 707-253-4269  
Last EDR Contact: 09/05/2019  
Next Scheduled EDR Contact: 12/09/2019  
Data Release Frequency: No Update Planned

## NEVADA COUNTY:

### CUPA NEVADA: CUPA Facility List

CUPA facility list.

Date of Government Version: 07/23/2019  
Date Data Arrived at EDR: 07/30/2019  
Date Made Active in Reports: 10/02/2019  
Number of Days to Update: 64

Source: Community Development Agency  
Telephone: 530-265-1467  
Last EDR Contact: 07/25/2019  
Next Scheduled EDR Contact: 11/11/2019  
Data Release Frequency: Varies

## ORANGE COUNTY:

### IND\_SITE ORANGE: List of Industrial Site Cleanups

Petroleum and non-petroleum spills.

Date of Government Version: 07/10/2019  
Date Data Arrived at EDR: 08/07/2019  
Date Made Active in Reports: 10/09/2019  
Number of Days to Update: 63

Source: Health Care Agency  
Telephone: 714-834-3446  
Last EDR Contact: 08/05/2019  
Next Scheduled EDR Contact: 11/18/2019  
Data Release Frequency: Annually

### LUST ORANGE: List of Underground Storage Tank Cleanups

Orange County Underground Storage Tank Cleanups (LUST).

Date of Government Version: 07/10/2019  
Date Data Arrived at EDR: 08/09/2019  
Date Made Active in Reports: 10/09/2019  
Number of Days to Update: 61

Source: Health Care Agency  
Telephone: 714-834-3446  
Last EDR Contact: 08/05/2019  
Next Scheduled EDR Contact: 11/18/2019  
Data Release Frequency: Quarterly

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## UST ORANGE: List of Underground Storage Tank Facilities

Orange County Underground Storage Tank Facilities (UST).

Date of Government Version: 07/10/2019  
Date Data Arrived at EDR: 08/06/2019  
Date Made Active in Reports: 10/09/2019  
Number of Days to Update: 64

Source: Health Care Agency  
Telephone: 714-834-3446  
Last EDR Contact: 08/05/2019  
Next Scheduled EDR Contact: 11/18/2019  
Data Release Frequency: Quarterly

## PLACER COUNTY:

### MS PLACER: Master List of Facilities

List includes aboveground tanks, underground tanks and cleanup sites.

Date of Government Version: 06/03/2019  
Date Data Arrived at EDR: 06/04/2019  
Date Made Active in Reports: 08/12/2019  
Number of Days to Update: 69

Source: Placer County Health and Human Services  
Telephone: 530-745-2363  
Last EDR Contact: 08/28/2019  
Next Scheduled EDR Contact: 12/16/2019  
Data Release Frequency: Semi-Annually

## PLUMAS COUNTY:

### CUPA PLUMAS: CUPA Facility List

Plumas County CUPA Program facilities.

Date of Government Version: 03/31/2019  
Date Data Arrived at EDR: 04/23/2019  
Date Made Active in Reports: 06/26/2019  
Number of Days to Update: 64

Source: Plumas County Environmental Health  
Telephone: 530-283-6355  
Last EDR Contact: 07/19/2019  
Next Scheduled EDR Contact: 11/04/2019  
Data Release Frequency: Varies

## RIVERSIDE COUNTY:

### LUST RIVERSIDE: Listing of Underground Tank Cleanup Sites

Riverside County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 07/10/2019  
Date Data Arrived at EDR: 07/11/2019  
Date Made Active in Reports: 09/20/2019  
Number of Days to Update: 71

Source: Department of Environmental Health  
Telephone: 951-358-5055  
Last EDR Contact: 09/16/2019  
Next Scheduled EDR Contact: 12/30/2019  
Data Release Frequency: Quarterly

### UST RIVERSIDE: Underground Storage Tank Tank List

Underground storage tank sites located in Riverside county.

Date of Government Version: 07/10/2019  
Date Data Arrived at EDR: 07/11/2019  
Date Made Active in Reports: 09/23/2019  
Number of Days to Update: 74

Source: Department of Environmental Health  
Telephone: 951-358-5055  
Last EDR Contact: 09/16/2019  
Next Scheduled EDR Contact: 12/30/2019  
Data Release Frequency: Quarterly

## SACRAMENTO COUNTY:

### CS SACRAMENTO: Toxic Site Clean-Up List

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



# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 05/06/2019  
Date Data Arrived at EDR: 06/28/2019  
Date Made Active in Reports: 08/22/2019  
Number of Days to Update: 55

Source: Sacramento County Environmental Management  
Telephone: 916-875-8406  
Last EDR Contact: 10/01/2019  
Next Scheduled EDR Contact: 01/13/2020  
Data Release Frequency: Quarterly

## ML SACRAMENTO: Master Hazardous Materials Facility List

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

Date of Government Version: 05/06/2019  
Date Data Arrived at EDR: 06/28/2019  
Date Made Active in Reports: 09/13/2019  
Number of Days to Update: 77

Source: Sacramento County Environmental Management  
Telephone: 916-875-8406  
Last EDR Contact: 10/01/2019  
Next Scheduled EDR Contact: 01/13/2020  
Data Release Frequency: Quarterly

## SAN BENITO COUNTY:

### CUPA SAN BENITO: CUPA Facility List

Cupa facility list

Date of Government Version: 07/16/2019  
Date Data Arrived at EDR: 07/16/2019  
Date Made Active in Reports: 09/24/2019  
Number of Days to Update: 70

Source: San Benito County Environmental Health  
Telephone: N/A  
Last EDR Contact: 07/16/2019  
Next Scheduled EDR Contact: 11/18/2019  
Data Release Frequency: Varies

## SAN BERNARDINO COUNTY:

### PERMITS SAN BERNARDINO: Hazardous Material Permits

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

Date of Government Version: 05/31/2019  
Date Data Arrived at EDR: 05/31/2019  
Date Made Active in Reports: 07/22/2019  
Number of Days to Update: 52

Source: San Bernardino County Fire Department Hazardous Materials Division  
Telephone: 909-387-3041  
Last EDR Contact: 08/05/2019  
Next Scheduled EDR Contact: 11/18/2019  
Data Release Frequency: Quarterly

## SAN DIEGO COUNTY:

### HMMD SAN DIEGO: Hazardous Materials Management Division Database

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

Date of Government Version: 06/04/2019  
Date Data Arrived at EDR: 06/04/2019  
Date Made Active in Reports: 08/08/2019  
Number of Days to Update: 65

Source: Hazardous Materials Management Division  
Telephone: 619-338-2268  
Last EDR Contact: 09/04/2019  
Next Scheduled EDR Contact: 12/16/2019  
Data Release Frequency: Quarterly

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## LF SAN DIEGO: Solid Waste Facilities

San Diego County Solid Waste Facilities.

Date of Government Version: 04/18/2018  
Date Data Arrived at EDR: 04/24/2018  
Date Made Active in Reports: 06/19/2018  
Number of Days to Update: 56

Source: Department of Health Services  
Telephone: 619-338-2209  
Last EDR Contact: 07/19/2019  
Next Scheduled EDR Contact: 11/04/2019  
Data Release Frequency: Varies

## SAN DIEGO CO LOP: Local Oversight Program Listing

A listing of all LOP release sites that are or were under the County of San Diego's jurisdiction. Included are closed or transferred cases, open cases, and cases that did not have a case type indicated. The cases without a case type are mostly complaints; however, some of them could be LOP cases.

Date of Government Version: 07/16/2019  
Date Data Arrived at EDR: 07/23/2019  
Date Made Active in Reports: 09/30/2019  
Number of Days to Update: 69

Source: Department of Environmental Health  
Telephone: 858-505-6874  
Last EDR Contact: 07/19/2019  
Next Scheduled EDR Contact: 11/04/2019  
Data Release Frequency: Varies

## SAN DIEGO CO SAM: Environmental Case Listing

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

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

Source: San Diego County Department of Environmental Health  
Telephone: 619-338-2371  
Last EDR Contact: 08/28/2019  
Next Scheduled EDR Contact: 12/16/2019  
Data Release Frequency: No Update Planned

## SAN FRANCISCO COUNTY:

### LUST SAN FRANCISCO: 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: 07/31/2019  
Next Scheduled EDR Contact: 11/18/2019  
Data Release Frequency: No Update Planned

### UST SAN FRANCISCO: Underground Storage Tank Information

Underground storage tank sites located in San Francisco county.

Date of Government Version: 08/01/2019  
Date Data Arrived at EDR: 08/02/2019  
Date Made Active in Reports: 10/08/2019  
Number of Days to Update: 67

Source: Department of Public Health  
Telephone: 415-252-3920  
Last EDR Contact: 07/31/2019  
Next Scheduled EDR Contact: 11/18/2019  
Data Release Frequency: Quarterly

## SAN JOAQUIN COUNTY:

### UST SAN JOAQUIN: San Joaquin Co. UST

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

Date of Government Version: 06/22/2018  
Date Data Arrived at EDR: 06/26/2018  
Date Made Active in Reports: 07/11/2018  
Number of Days to Update: 15

Source: Environmental Health Department  
Telephone: N/A  
Last EDR Contact: 09/11/2019  
Next Scheduled EDR Contact: 12/29/2019  
Data Release Frequency: Semi-Annually

## SAN LUIS OBISPO COUNTY:

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## CUPA SAN LUIS OBISPO: CUPA Facility List Cupa Facility List.

Date of Government Version: 05/20/2019  
Date Data Arrived at EDR: 05/21/2019  
Date Made Active in Reports: 07/18/2019  
Number of Days to Update: 58

Source: San Luis Obispo County Public Health Department  
Telephone: 805-781-5596  
Last EDR Contact: 08/14/2019  
Next Scheduled EDR Contact: 12/02/2019  
Data Release Frequency: Varies

## SAN MATEO COUNTY:

### BI SAN MATEO: Business Inventory

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

Date of Government Version: 08/06/2019  
Date Data Arrived at EDR: 08/14/2019  
Date Made Active in Reports: 08/15/2019  
Number of Days to Update: 1

Source: San Mateo County Environmental Health Services Division  
Telephone: 650-363-1921  
Last EDR Contact: 09/09/2019  
Next Scheduled EDR Contact: 12/23/2019  
Data Release Frequency: Annually

### LUST SAN MATEO: Fuel Leak List

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

Date of Government Version: 03/29/2019  
Date Data Arrived at EDR: 03/29/2019  
Date Made Active in Reports: 05/29/2019  
Number of Days to Update: 61

Source: San Mateo County Environmental Health Services Division  
Telephone: 650-363-1921  
Last EDR Contact: 09/05/2019  
Next Scheduled EDR Contact: 12/23/2019  
Data Release Frequency: Semi-Annually

## SANTA BARBARA COUNTY:

### CUPA SANTA BARBARA: CUPA Facility Listing

CUPA Program Listing from the Environmental Health Services division.

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

Source: Santa Barbara County Public Health Department  
Telephone: 805-686-8167  
Last EDR Contact: 08/14/2019  
Next Scheduled EDR Contact: 12/02/2019  
Data Release Frequency: No Update Planned

## SANTA CLARA COUNTY:

### CUPA SANTA CLARA: Cupa Facility List

Cupa facility list

Date of Government Version: 05/16/2019  
Date Data Arrived at EDR: 05/23/2019  
Date Made Active in Reports: 07/18/2019  
Number of Days to Update: 56

Source: Department of Environmental Health  
Telephone: 408-918-1973  
Last EDR Contact: 08/14/2019  
Next Scheduled EDR Contact: 12/02/2019  
Data Release Frequency: Varies

### HIST LUST SANTA CLARA: HIST LUST - Fuel Leak Site Activity Report

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

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

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

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## LUST SANTA CLARA: LOP Listing

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

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

Source: Department of Environmental Health  
Telephone: 408-918-3417  
Last EDR Contact: 08/21/2019  
Next Scheduled EDR Contact: 12/09/2019  
Data Release Frequency: No Update Planned

## SAN JOSE HAZMAT: Hazardous Material Facilities

Hazardous material facilities, including underground storage tank sites.

Date of Government Version: 07/30/2019  
Date Data Arrived at EDR: 08/02/2019  
Date Made Active in Reports: 10/08/2019  
Number of Days to Update: 67

Source: City of San Jose Fire Department  
Telephone: 408-535-7694  
Last EDR Contact: 07/31/2019  
Next Scheduled EDR Contact: 11/18/2019  
Data Release Frequency: Annually

## SANTA CRUZ COUNTY:

### CUPA SANTA CRUZ: CUPA Facility List

CUPA facility listing.

Date of Government Version: 01/21/2017  
Date Data Arrived at EDR: 02/22/2017  
Date Made Active in Reports: 05/23/2017  
Number of Days to Update: 90

Source: Santa Cruz County Environmental Health  
Telephone: 831-464-2761  
Last EDR Contact: 08/14/2019  
Next Scheduled EDR Contact: 12/02/2019  
Data Release Frequency: Varies

## SHASTA COUNTY:

### CUPA SHASTA: CUPA Facility List

Cupa Facility List.

Date of Government Version: 06/15/2017  
Date Data Arrived at EDR: 06/19/2017  
Date Made Active in Reports: 08/09/2017  
Number of Days to Update: 51

Source: Shasta County Department of Resource Management  
Telephone: 530-225-5789  
Last EDR Contact: 08/14/2019  
Next Scheduled EDR Contact: 12/02/2019  
Data Release Frequency: Varies

## SOLANO COUNTY:

### LUST SOLANO: Leaking Underground Storage Tanks

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

Date of Government Version: 06/04/2019  
Date Data Arrived at EDR: 06/06/2019  
Date Made Active in Reports: 08/13/2019  
Number of Days to Update: 68

Source: Solano County Department of Environmental Management  
Telephone: 707-784-6770  
Last EDR Contact: 08/28/2019  
Next Scheduled EDR Contact: 12/16/2019  
Data Release Frequency: Quarterly

### UST SOLANO: Underground Storage Tanks

Underground storage tank sites located in Solano county.

Date of Government Version: 06/04/2019  
Date Data Arrived at EDR: 06/06/2019  
Date Made Active in Reports: 07/23/2019  
Number of Days to Update: 47

Source: Solano County Department of Environmental Management  
Telephone: 707-784-6770  
Last EDR Contact: 08/28/2019  
Next Scheduled EDR Contact: 12/16/2019  
Data Release Frequency: Quarterly

## SONOMA COUNTY:

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## CUPA SONOMA: Cupa Facility List Cupa Facility list

Date of Government Version: 06/18/2019  
Date Data Arrived at EDR: 06/25/2019  
Date Made Active in Reports: 07/24/2019  
Number of Days to Update: 29

Source: County of Sonoma Fire & Emergency Services Department  
Telephone: 707-565-1174  
Last EDR Contact: 10/02/2019  
Next Scheduled EDR Contact: 01/06/2020  
Data Release Frequency: Varies

## LUST SONOMA: Leaking Underground Storage Tank Sites

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

Date of Government Version: 07/02/2019  
Date Data Arrived at EDR: 07/02/2019  
Date Made Active in Reports: 09/20/2019  
Number of Days to Update: 80

Source: Department of Health Services  
Telephone: 707-565-6565  
Last EDR Contact: 09/19/2019  
Next Scheduled EDR Contact: 01/06/2020  
Data Release Frequency: Quarterly

## STANISLAUS COUNTY:

### CUPA STANISLAUS: CUPA Facility List Cupa facility list

Date of Government Version: 07/18/2019  
Date Data Arrived at EDR: 07/18/2019  
Date Made Active in Reports: 09/26/2019  
Number of Days to Update: 70

Source: Stanislaus County Department of Environmental Protection  
Telephone: 209-525-6751  
Last EDR Contact: 07/15/2019  
Next Scheduled EDR Contact: 10/28/2019  
Data Release Frequency: Varies

## SUTTER COUNTY:

### UST SUTTER: Underground Storage Tanks

Underground storage tank sites located in Sutter county.

Date of Government Version: 06/03/2019  
Date Data Arrived at EDR: 06/04/2019  
Date Made Active in Reports: 07/23/2019  
Number of Days to Update: 49

Source: Sutter County Environmental Health Services  
Telephone: 530-822-7500  
Last EDR Contact: 08/28/2019  
Next Scheduled EDR Contact: 12/16/2019  
Data Release Frequency: Semi-Annually

## TEHAMA COUNTY:

### CUPA TEHAMA: CUPA Facility List Cupa facilities

Date of Government Version: 05/20/2019  
Date Data Arrived at EDR: 05/21/2019  
Date Made Active in Reports: 07/18/2019  
Number of Days to Update: 58

Source: Tehama County Department of Environmental Health  
Telephone: 530-527-8020  
Last EDR Contact: 07/31/2019  
Next Scheduled EDR Contact: 11/18/2019  
Data Release Frequency: Varies

## TRINITY COUNTY:

### CUPA TRINITY: CUPA Facility List Cupa facility list

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 07/19/2019  
Date Data Arrived at EDR: 07/23/2019  
Date Made Active in Reports: 09/26/2019  
Number of Days to Update: 65

Source: Department of Toxic Substances Control  
Telephone: 760-352-0381  
Last EDR Contact: 07/19/2019  
Next Scheduled EDR Contact: 11/04/2019  
Data Release Frequency: Varies

## TULARE COUNTY:

### CUPA TULARE: CUPA Facility List Cupa program facilities

Date of Government Version: 05/09/2019  
Date Data Arrived at EDR: 05/10/2019  
Date Made Active in Reports: 07/17/2019  
Number of Days to Update: 68

Source: Tulare County Environmental Health Services Division  
Telephone: 559-624-7400  
Last EDR Contact: 08/05/2019  
Next Scheduled EDR Contact: 11/18/2019  
Data Release Frequency: Varies

## TUOLUMNE COUNTY:

### CUPA TUOLUMNE: CUPA Facility List Cupa facility list

Date of Government Version: 04/23/2018  
Date Data Arrived at EDR: 04/25/2018  
Date Made Active in Reports: 06/25/2018  
Number of Days to Update: 61

Source: Division of Environmental Health  
Telephone: 209-533-5633  
Last EDR Contact: 07/31/2019  
Next Scheduled EDR Contact: 11/04/2019  
Data Release Frequency: Varies

## VENTURA COUNTY:

### BWT VENTURA: Business Plan, Hazardous Waste Producers, and Operating Underground Tanks

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

Date of Government Version: 05/29/2019  
Date Data Arrived at EDR: 07/29/2019  
Date Made Active in Reports: 09/30/2019  
Number of Days to Update: 63

Source: Ventura County Environmental Health Division  
Telephone: 805-654-2813  
Last EDR Contact: 07/22/2019  
Next Scheduled EDR Contact: 11/04/2019  
Data Release Frequency: Quarterly

### LF VENTURA: Inventory of Illegal Abandoned and Inactive Sites

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

Date of Government Version: 12/01/2011  
Date Data Arrived at EDR: 12/01/2011  
Date Made Active in Reports: 01/19/2012  
Number of Days to Update: 49

Source: Environmental Health Division  
Telephone: 805-654-2813  
Last EDR Contact: 09/25/2019  
Next Scheduled EDR Contact: 01/13/2020  
Data Release Frequency: No Update Planned

### LUST VENTURA: Listing of Underground Tank Cleanup Sites

Ventura County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 05/29/2008  
Date Data Arrived at EDR: 06/24/2008  
Date Made Active in Reports: 07/31/2008  
Number of Days to Update: 37

Source: Environmental Health Division  
Telephone: 805-654-2813  
Last EDR Contact: 08/07/2019  
Next Scheduled EDR Contact: 11/25/2019  
Data Release Frequency: No Update Planned

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## MED WASTE VENTURA: Medical Waste Program List

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

Date of Government Version: 05/29/2019	Source: Ventura County Resource Management Agency
Date Data Arrived at EDR: 07/29/2019	Telephone: 805-654-2813
Date Made Active in Reports: 09/30/2019	Last EDR Contact: 07/22/2019
Number of Days to Update: 63	Next Scheduled EDR Contact: 11/04/2019
	Data Release Frequency: Quarterly

## UST VENTURA: Underground Tank Closed Sites List

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

Date of Government Version: 06/10/2019	Source: Environmental Health Division
Date Data Arrived at EDR: 06/12/2019	Telephone: 805-654-2813
Date Made Active in Reports: 07/24/2019	Last EDR Contact: 09/09/2019
Number of Days to Update: 42	Next Scheduled EDR Contact: 12/23/2019
	Data Release Frequency: Quarterly

## YOLO COUNTY:

### UST YOLO: Underground Storage Tank Comprehensive Facility Report

Underground storage tank sites located in Yolo county.

Date of Government Version: 06/26/2019	Source: Yolo County Department of Health
Date Data Arrived at EDR: 06/28/2019	Telephone: 530-666-8646
Date Made Active in Reports: 07/31/2019	Last EDR Contact: 09/25/2019
Number of Days to Update: 33	Next Scheduled EDR Contact: 01/13/2020
	Data Release Frequency: Annually

## YUBA COUNTY:

### CUPA YUBA: CUPA Facility List

CUPA facility listing for Yuba County.

Date of Government Version: 07/26/2019	Source: Yuba County Environmental Health Department
Date Data Arrived at EDR: 07/31/2019	Telephone: 530-749-7523
Date Made Active in Reports: 10/08/2019	Last EDR Contact: 07/25/2019
Number of Days to Update: 69	Next Scheduled EDR Contact: 11/11/2019
	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: 05/14/2019	Source: Department of Energy & Environmental Protection
Date Data Arrived at EDR: 05/14/2019	Telephone: 860-424-3375
Date Made Active in Reports: 08/05/2019	Last EDR Contact: 08/07/2019
Number of Days to Update: 83	Next Scheduled EDR Contact: 11/25/2019
	Data Release Frequency: No Update Planned

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## NJ MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2018  
Date Data Arrived at EDR: 04/10/2019  
Date Made Active in Reports: 05/16/2019  
Number of Days to Update: 36

Source: Department of Environmental Protection  
Telephone: N/A  
Last EDR Contact: 10/02/2019  
Next Scheduled EDR Contact: 01/20/2020  
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: 01/01/2019  
Date Data Arrived at EDR: 05/01/2019  
Date Made Active in Reports: 06/21/2019  
Number of Days to Update: 51

Source: Department of Environmental Conservation  
Telephone: 518-402-8651  
Last EDR Contact: 07/29/2019  
Next Scheduled EDR Contact: 11/11/2019  
Data Release Frequency: Quarterly

## PA MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 06/30/2018  
Date Data Arrived at EDR: 07/19/2019  
Date Made Active in Reports: 09/10/2019  
Number of Days to Update: 53

Source: Department of Environmental Protection  
Telephone: 717-783-8990  
Last EDR Contact: 10/09/2019  
Next Scheduled EDR Contact: 12/07/2020  
Data Release Frequency: Annually

## RI MANIFEST: Manifest information

Hazardous waste manifest information

Date of Government Version: 12/31/2017  
Date Data Arrived at EDR: 02/23/2018  
Date Made Active in Reports: 04/09/2018  
Number of Days to Update: 45

Source: Department of Environmental Management  
Telephone: 401-222-2797  
Last EDR Contact: 08/16/2019  
Next Scheduled EDR Contact: 12/02/2019  
Data Release Frequency: Annually

## WI MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 05/31/2018  
Date Data Arrived at EDR: 06/19/2019  
Date Made Active in Reports: 09/03/2019  
Number of Days to Update: 76

Source: Department of Natural Resources  
Telephone: N/A  
Last EDR Contact: 09/06/2019  
Next Scheduled EDR Contact: 12/23/2019  
Data Release Frequency: Annually

## Oil/Gas Pipelines

Source: Endeavor Business Media

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

## Electric Power Transmission Line Data

Source: Endeavor Business Media

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



# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## AHA Hospitals:

Source: American Hospital Association, Inc.

Telephone: 312-280-5991

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

## Medical Centers: Provider of Services Listing

Source: Centers for Medicare & Medicaid Services

Telephone: 410-786-3000

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

## Nursing Homes

Source: National Institutes of Health

Telephone: 301-594-6248

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

## Public Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

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

## Private Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

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

## Daycare Centers: Licensed Facilities

Source: Department of Social Services

Telephone: 916-657-4041

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

Source: FEMA

Telephone: 877-336-2627

Date of Government Version: 2003, 2015

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

## State Wetlands Data: Wetland Inventory

Source: Department of Fish and Wildlife

Telephone: 916-445-0411

## Current USGS 7.5 Minute Topographic Map

Source: U.S. Geological Survey

## **STREET AND ADDRESS INFORMATION**

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## GEOCHECK<sup>®</sup> - PHYSICAL SETTING SOURCE ADDENDUM

### TARGET PROPERTY ADDRESS

IDYLLWILD ROAD  
25840 IDYLLWILD RD  
IDYLLWILD, CA 92549

### TARGET PROPERTY COORDINATES

Latitude (North):	33.749004 - 33° 44' 56.41"
Longitude (West):	116.713426 - 116° 42' 48.33"
Universal Tranverse Mercator:	Zone 11
UTM X (Meters):	526542.7
UTM Y (Meters):	3734169.8
Elevation:	5449 ft. above sea level

### USGS TOPOGRAPHIC MAP

Target Property Map:	5629991 IDYLLWILD, CA
Version Date:	2012
North Map:	5629995 SAN JACINTO PEAK, CA
Version Date:	2012

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principle investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

## GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

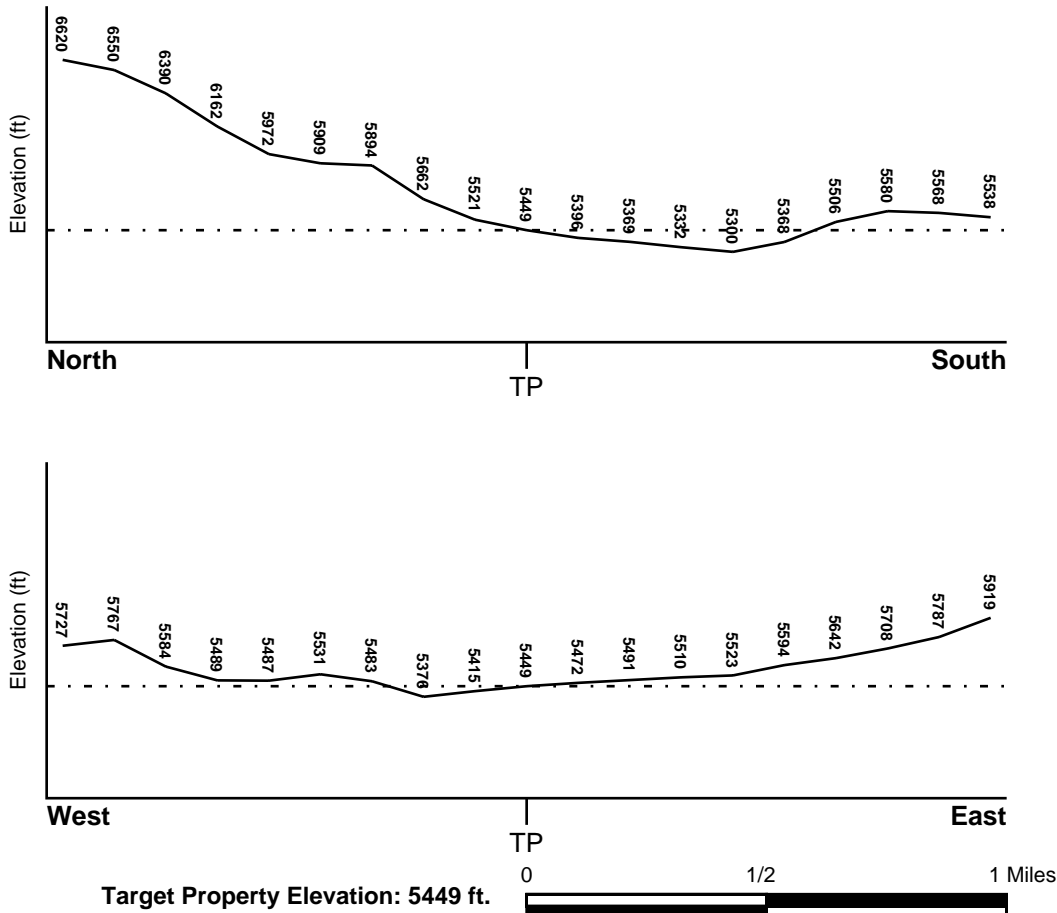
## TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

## TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General SSW

## SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

## HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

## **FEMA FLOOD ZONE**

<u>Flood Plain Panel at Target Property</u>	<u>FEMA Source Type</u>
06065C2155G	FEMA FIRM Flood data
<u>Additional Panels in search area:</u>	<u>FEMA Source Type</u>
06065C1540G	FEMA FIRM Flood data

## **NATIONAL WETLAND INVENTORY**

<u>NWI Quad at Target Property</u>	<u>NWI Electronic Data Coverage</u>
IDYLLWILD	YES - refer to the Overview Map and Detail Map

## HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

### **Site-Specific Hydrogeological Data\*:**

Search Radius:	1.25 miles
Status:	Not found

## **AQUIFLOW®**

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

<u>MAP ID</u>	<u>LOCATION FROM TP</u>	<u>GENERAL DIRECTION GROUNDWATER FLOW</u>
Not Reported		

## **GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY**

### **GROUNDWATER FLOW VELOCITY INFORMATION**

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

### **GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY**

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

#### **ROCK STRATIGRAPHIC UNIT**

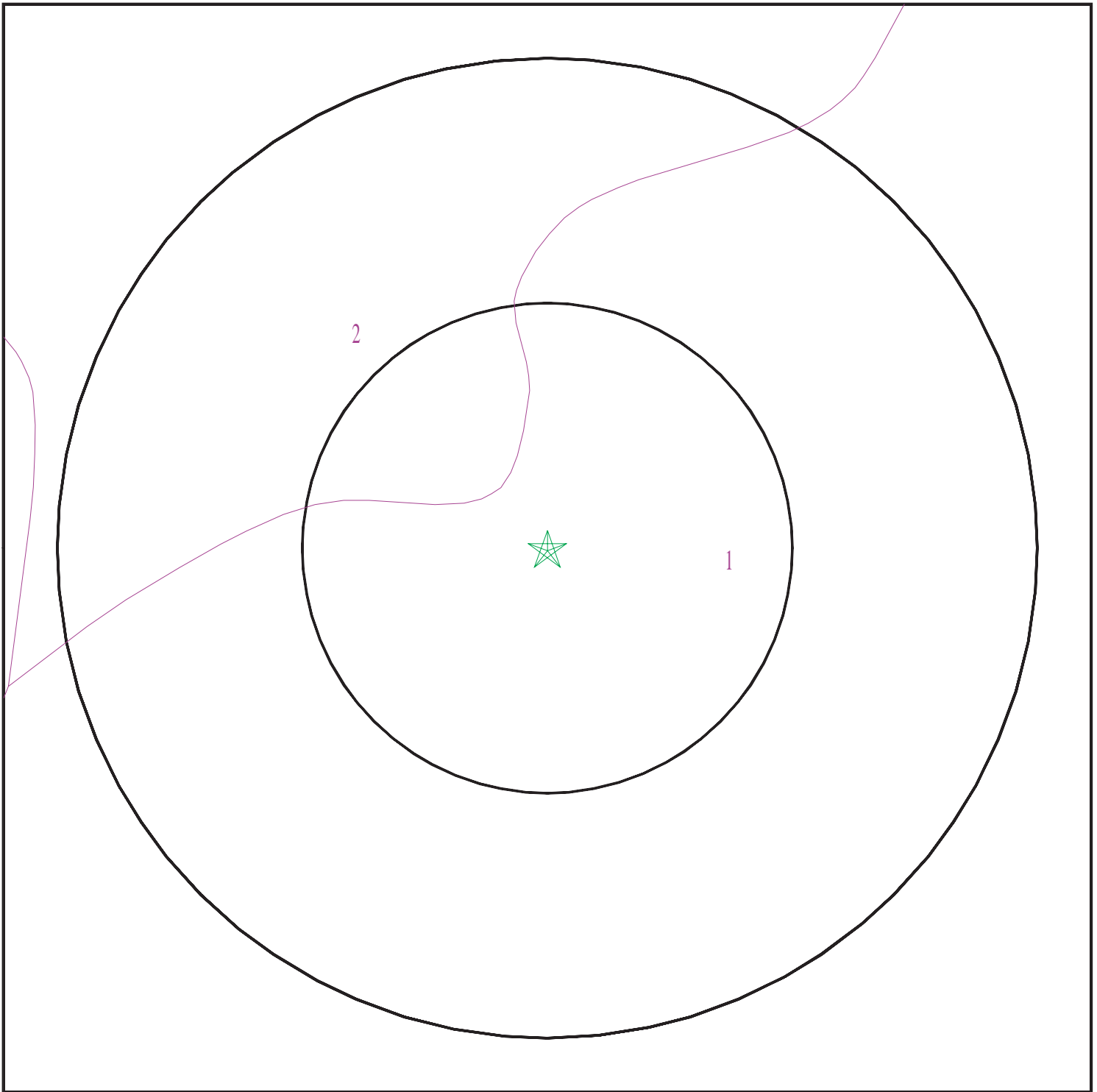
Era: Mesozoic  
System: Cretaceous  
Series: Cretaceous granitic rocks  
Code: Kg *(decoded above as Era, System & Series)*

#### **GEOLOGIC AGE IDENTIFICATION**

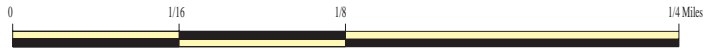
Category: Plutonic and Intrusive Rocks

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

# SSURGO SOIL MAP - 5830468.2s



- ★ Target Property
- ∩ SSURGO Soil
- ∩ Water



SITE NAME: Idyllwild Road  
ADDRESS: 25840 IDYLLWILD RD  
IDYLLWILD CA 92549  
LAT/LONG: 33.749004 / 116.713426

CLIENT: Partner Engineering and Science, Inc.  
CONTACT: Sasha Mick  
INQUIRY #: 5830468.2s  
DATE: October 15, 2019 4:19 pm

# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

## DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. The following information is based on Soil Conservation Service SSURGO data.

### Soil Map ID: 1

Soil Component Name: Wind River family

Soil Surface Texture: weathered bedrock

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	44 inches	48 inches	weathered bedrock	Not reported	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 7.3 Min: 6.1
2	33 inches	44 inches	gravelly sandy loam	Not reported	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 7.3 Min: 6.1
3	18 inches	33 inches	coarse sandy loam	Not reported	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 7.3 Min: 6.1
4	0 inches	18 inches	sandy loam	Not reported	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 7.3 Min: 6.1

## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

**Soil Map ID: 2**

Soil Component Name: Pacifico family

Soil Surface Texture: weathered bedrock

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Somewhat excessively drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	14 inches	18 inches	weathered bedrock	Not reported	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 7.3 Min: 6.1
2	3 inches	14 inches	loamy coarse sand	Not reported	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 7.3 Min: 6.1
3	0 inches	3 inches	loamy coarse sand	Not reported	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 7.3 Min: 6.1

**LOCAL / REGIONAL WATER AGENCY RECORDS**

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.



# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

## WELL SEARCH DISTANCE INFORMATION

<u>DATABASE</u>	<u>SEARCH DISTANCE (miles)</u>
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

## **FEDERAL USGS WELL INFORMATION**

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
No Wells Found		

## **FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION**

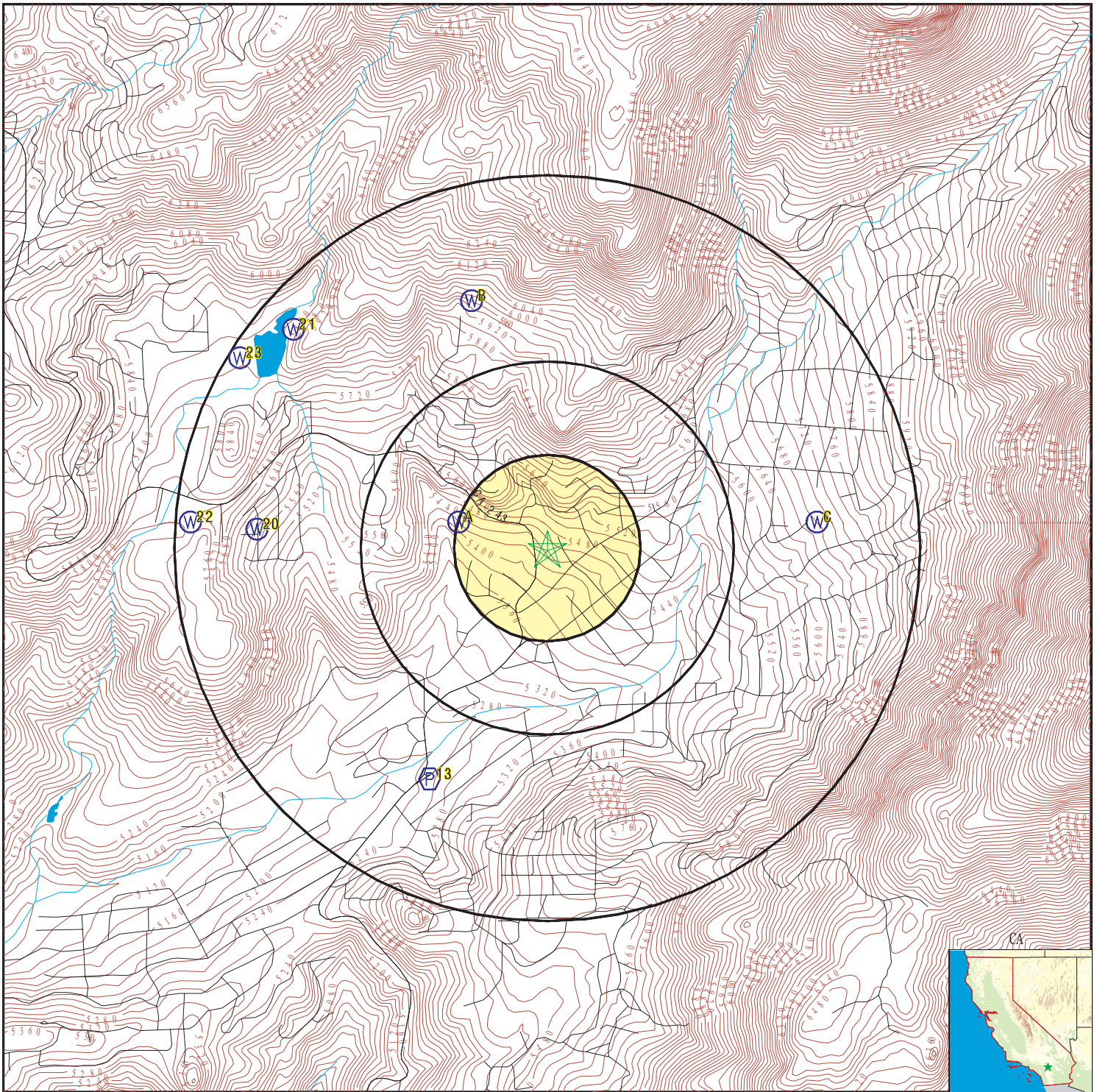
<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
13	CA3301902	1/2 - 1 Mile SSW

Note: PWS System location is not always the same as well location.

## **STATE DATABASE WELL INFORMATION**

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
A1	5831	1/8 - 1/4 Mile WNW
A2	5832	1/8 - 1/4 Mile WNW
A3	5830	1/8 - 1/4 Mile WNW
A4	5828	1/8 - 1/4 Mile WNW
A5	5829	1/8 - 1/4 Mile WNW
A6	5850	1/8 - 1/4 Mile WNW
A7	5864	1/8 - 1/4 Mile WNW
A8	5845	1/8 - 1/4 Mile WNW
A9	5833	1/8 - 1/4 Mile WNW
A10	5834	1/8 - 1/4 Mile WNW
B11	5862	1/2 - 1 Mile NNW
B12	5869	1/2 - 1 Mile NNW
C14	5863	1/2 - 1 Mile East
C15	5867	1/2 - 1 Mile East
C16	5868	1/2 - 1 Mile East
C17	5861	1/2 - 1 Mile East
C18	5859	1/2 - 1 Mile East
C19	5860	1/2 - 1 Mile East
20	5843	1/2 - 1 Mile West
21	23621	1/2 - 1 Mile NW
22	5844	1/2 - 1 Mile West
23	5835	1/2 - 1 Mile WNW

# PHYSICAL SETTING SOURCE MAP - 5830468.2s



- County Boundary
- Major Roads
- Contour Lines
- Earthquake Fault Lines
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons



- Groundwater Flow Direction
- Indeterminate Groundwater Flow at Location
- Groundwater Flow Varies at Location
- Closest Hydrogeological Data
- Oil, gas or related wells



SITE NAME: Idyllwild Road  
 ADDRESS: 25840 IDYLLWILD RD  
 IDYLLWILD CA 92549  
 LAT/LONG: 33.749004 / 116.713426

CLIENT: Partner Engineering and Science, Inc.  
 CONTACT: Sasha Mick  
 INQUIRY #: 5830468.2s  
 DATE: October 15, 2019 4:19 pm

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
 Direction  
 Distance  
 Elevation

Database      EDR ID Number

**A1**  
**WNW**  
**1/8 - 1/4 Mile**  
**Lower**

**CA WELLS      5831**

Seq:	5831	Prim sta c:	05S/02E-12B04 S
Frds no:	3310019010	County:	33
District:	14	User id:	WAT
System no:	3310019	Water type:	G
Source nam:	FOSTER LAKE 04	Station ty:	WELL/AMBNT
Latitude:	334500.0	Longitude:	1164300.5
Precision:	3	Status:	AR
Comment 1:	Not Reported	Comment 2:	Not Reported
Comment 3:	Not Reported	Comment 4:	Not Reported
Comment 5:	Not Reported	Comment 6:	Not Reported
Comment 7:	Not Reported		

System no:	3310019	System nam:	Idyllwild Wd
Hqname:	Not Reported	Address:	PO BOX 397
City:	IDYLLWILD	State:	CA
Zip:	92349	Zip ext:	Not Reported
Pop serv:	2600	Connection:	1548
Area serve:	IDYLLWILD		

Sample date:	12-JUL-17	Finding:	79.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dir:	0.		

Sample date:	25-MAY-16	Finding:	270.
Chemical:	MANGANESE	Report units:	UG/L
Dir:	20.		

Sample date:	25-MAY-16	Finding:	620.
Chemical:	IRON	Report units:	UG/L
Dir:	100.		

Sample date:	25-MAY-16	Finding:	46.
Chemical:	BARIUM	Report units:	UG/L
Dir:	100.		

Sample date:	25-MAY-16	Finding:	4.1
Chemical:	SULFATE	Report units:	MG/L
Dir:	0.5		

Sample date:	25-MAY-16	Finding:	6.1
Chemical:	CHLORIDE	Report units:	MG/L
Dir:	0.		

Sample date:	25-MAY-16	Finding:	2.
Chemical:	POTASSIUM	Report units:	MG/L
Dir:	0.		

Sample date:	25-MAY-16	Finding:	13.
Chemical:	SODIUM	Report units:	MG/L
Dir:	0.		

Sample date:	25-MAY-16	Finding:	2.3
Chemical:	MAGNESIUM	Report units:	MG/L
Dir:	0.		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample date:	25-MAY-16	Finding:	12.
Chemical:	CALCIUM	Report units:	MG/L
Dir:	0.		
Sample date:	25-MAY-16	Finding:	40.
Chemical:	HARDNESS (TOTAL) AS CaCO <sub>3</sub>	Report units:	MG/L
Dir:	0.		
Sample date:	25-MAY-16	Finding:	65.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dir:	0.		
Sample date:	25-MAY-16	Finding:	53.
Chemical:	ALKALINITY (TOTAL) AS CaCO <sub>3</sub>	Report units:	MG/L
Dir:	0.		
Sample date:	25-MAY-16	Finding:	6.5
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dir:	0.		
Sample date:	25-MAY-16	Finding:	150.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dir:	0.		
Sample date:	25-MAY-16	Finding:	1.5
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dir:	0.1		
Sample date:	25-MAY-16	Finding:	170.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dir:	0.		
Sample date:	29-MAY-13	Finding:	1.5
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dir:	0.1		
Sample date:	29-MAY-13	Finding:	3.7
Chemical:	NITRATE (AS NO <sub>3</sub> )	Report units:	MG/L
Dir:	2.		
Sample date:	29-MAY-13	Finding:	94.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dir:	0.		
Sample date:	29-MAY-13	Finding:	8.e-002
Chemical:	FOAMING AGENTS (MBAS)	Report units:	MG/L
Dir:	0.		
Sample date:	29-MAY-13	Finding:	60.
Chemical:	ALUMINUM	Report units:	UG/L
Dir:	50.		
Sample date:	29-MAY-13	Finding:	610.
Chemical:	IRON	Report units:	UG/L
Dir:	100.		
Sample date:	29-MAY-13	Finding:	0.2
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dir:	0.1		
Sample date:	29-MAY-13	Finding:	4.8
Chemical:	SULFATE	Report units:	MG/L

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Dir:	0.5		
Sample date:	29-MAY-13	Finding:	11.
Chemical:	CHLORIDE	Report units:	MG/L
Dir:	0.		
Sample date:	29-MAY-13	Finding:	1.8
Chemical:	POTASSIUM	Report units:	MG/L
Dir:	0.		
Sample date:	29-MAY-13	Finding:	12.
Chemical:	SODIUM	Report units:	MG/L
Dir:	0.		
Sample date:	29-MAY-13	Finding:	1.8
Chemical:	MAGNESIUM	Report units:	MG/L
Dir:	0.		
Sample date:	29-MAY-13	Finding:	11.
Chemical:	CALCIUM	Report units:	MG/L
Dir:	0.		
Sample date:	29-MAY-13	Finding:	34.
Chemical:	HARDNESS (TOTAL) AS CaCO3	Report units:	MG/L
Dir:	0.		
Sample date:	29-MAY-13	Finding:	56.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dir:	0.		
Sample date:	29-MAY-13	Finding:	46.
Chemical:	ALKALINITY (TOTAL) AS CaCO3	Report units:	MG/L
Dir:	0.		
Sample date:	29-MAY-13	Finding:	130.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dir:	0.		
Sample date:	29-MAY-13	Finding:	6.6
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dir:	0.		

**A2  
WNW  
1/8 - 1/4 Mile  
Lower**

**CA WELLS 5832**

Seq:	5832	Prim sta c:	05S/02E-12B05 S
Frds no:	3310019011	County:	33
District:	14	User id:	WAT
System no:	3310019	Water type:	G
Source nam:	FOSTER LAKE 05	Station ty:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Latitude:	334500.0	Longitude:	1164300.0
Precision:	8	Status:	AR
Comment 1:	Not Reported	Comment 2:	Not Reported
Comment 3:	Not Reported	Comment 4:	Not Reported
Comment 5:	Not Reported	Comment 6:	Not Reported
Comment 7:	Not Reported		
System no:	3310019	System nam:	Idyllwild Wd
Hqname:	Not Reported	Address:	PO BOX 397

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

City:	IDYLLWILD	State:	CA
Zip:	92349	Zip ext:	Not Reported
Pop serv:	2600	Connection:	1548
Area serve:	IDYLLWILD		
Sample date:	07-APR-17	Finding:	0.43
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dir:	0.4		
Sample date:	28-JUL-16	Finding:	160.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dir:	0.		
Sample date:	28-JUL-16	Finding:	1.29
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dir:	0.		
Sample date:	28-JUL-16	Finding:	0.854
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dir:	0.		
Sample date:	28-JUL-16	Finding:	2.8
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dir:	0.1		
Sample date:	28-JUL-16	Finding:	120.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dir:	0.		
Sample date:	28-JUL-16	Finding:	6.
Chemical:	LEAD	Report units:	UG/L
Dir:	5.		
Sample date:	28-JUL-16	Finding:	6700.
Chemical:	IRON	Report units:	UG/L
Dir:	100.		
Sample date:	28-JUL-16	Finding:	56.
Chemical:	BARIUM	Report units:	UG/L
Dir:	100.		
Sample date:	28-JUL-16	Finding:	1.5
Chemical:	SULFATE	Report units:	MG/L
Dir:	0.5		
Sample date:	28-JUL-16	Finding:	7.6
Chemical:	CHLORIDE	Report units:	MG/L
Dir:	0.		
Sample date:	28-JUL-16	Finding:	2.2
Chemical:	POTASSIUM	Report units:	MG/L
Dir:	0.		
Sample date:	28-JUL-16	Finding:	14.
Chemical:	SODIUM	Report units:	MG/L
Dir:	0.		
Sample date:	28-JUL-16	Finding:	1.9
Chemical:	MAGNESIUM	Report units:	MG/L
Dir:	0.		
Sample date:	28-JUL-16	Finding:	11.

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Chemical:	CALCIUM	Report units:	MG/L
Dir:	0.		
Sample date:	28-JUL-16	Finding:	35.
Chemical:	HARDNESS (TOTAL) AS CaCO <sub>3</sub>	Report units:	MG/L
Dir:	0.		
Sample date:	28-JUL-16	Finding:	71.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dir:	0.		
Sample date:	28-JUL-16	Finding:	58.
Chemical:	ALKALINITY (TOTAL) AS CaCO <sub>3</sub>	Report units:	MG/L
Dir:	0.		
Sample date:	28-JUL-16	Finding:	5.
Chemical:	COLOR	Report units:	UNITS
Dir:	0.		
Sample date:	28-JUL-16	Finding:	6.5
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dir:	0.		
Sample date:	29-OCT-15	Finding:	52.
Chemical:	BARIUM	Report units:	UG/L
Dir:	100.		
Sample date:	23-MAY-13	Finding:	5.4
Chemical:	CHLORIDE	Report units:	MG/L
Dir:	0.		
Sample date:	23-MAY-13	Finding:	120.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dir:	0.		
Sample date:	23-MAY-13	Finding:	100.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dir:	0.		
Sample date:	23-MAY-13	Finding:	44.
Chemical:	MANGANESE	Report units:	UG/L
Dir:	20.		
Sample date:	23-MAY-13	Finding:	2600.
Chemical:	IRON	Report units:	UG/L
Dir:	100.		
Sample date:	23-MAY-13	Finding:	1.
Chemical:	SULFATE	Report units:	MG/L
Dir:	0.5		
Sample date:	23-MAY-13	Finding:	1.9
Chemical:	POTASSIUM	Report units:	MG/L
Dir:	0.		
Sample date:	23-MAY-13	Finding:	12.
Chemical:	SODIUM	Report units:	MG/L
Dir:	0.		
Sample date:	23-MAY-13	Finding:	1.4
Chemical:	MAGNESIUM	Report units:	MG/L
Dir:	0.		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample date:	23-MAY-13	Finding:	9.3
Chemical:	CALCIUM	Report units:	MG/L
Dir:	0.		
Sample date:	23-MAY-13	Finding:	29.
Chemical:	HARDNESS (TOTAL) AS CaCO3	Report units:	MG/L
Dir:	0.		
Sample date:	23-MAY-13	Finding:	55.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dir:	0.		
Sample date:	23-MAY-13	Finding:	45.
Chemical:	ALKALINITY (TOTAL) AS CaCO3	Report units:	MG/L
Dir:	0.		
Sample date:	23-MAY-13	Finding:	6.7
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dir:	0.		
Sample date:	10-OCT-12	Finding:	64.
Chemical:	ALUMINUM	Report units:	UG/L
Dir:	50.		
Sample date:	25-JAN-12	Finding:	86.
Chemical:	ALUMINUM	Report units:	UG/L
Dir:	50.		

**A3  
WNW  
1/8 - 1/4 Mile  
Lower**

**CA WELLS 5830**

Seq:	5830	Prim sta c:	05S/02E-12B03 S
Frds no:	3310019009	County:	33
District:	14	User id:	WAT
System no:	3310019	Water type:	G
Source nam:	FOSTER LAKE 03 - INACTIVE	Station ty:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Latitude:	334500.0	Longitude:	1164300.0
Precision:	8	Status:	IR
Comment 1:	Not Reported	Comment 2:	Not Reported
Comment 3:	Not Reported	Comment 4:	Not Reported
Comment 5:	Not Reported	Comment 6:	Not Reported
Comment 7:	Not Reported		
System no:	3310019	System nam:	Idyllwild Wd
Hqname:	Not Reported	Address:	PO BOX 397
City:	IDYLLWILD	State:	CA
Zip:	92349	Zip ext:	Not Reported
Pop serv:	2600	Connection:	1548
Area serve:	IDYLLWILD		

**A4  
WNW  
1/8 - 1/4 Mile  
Lower**

**CA WELLS 5828**

Seq:	5828	Prim sta c:	05S/02E-12B01 S
Frds no:	3310019007	County:	33
District:	14	User id:	WAT



## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

System no:	3310019	Water type:	G
Source nam:	FOSTER LAKE 01 - INACTIVE	Station ty:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Latitude:	334500.0	Longitude:	1164300.0
Precision:	8	Status:	IR
Comment 1:	Not Reported	Comment 2:	Not Reported
Comment 3:	Not Reported	Comment 4:	Not Reported
Comment 5:	Not Reported	Comment 6:	Not Reported
Comment 7:	Not Reported		
System no:	3310019	System nam:	Idyllwild Wd
Hqname:	Not Reported	Address:	PO BOX 397
City:	IDYLLWILD	State:	CA
Zip:	92349	Zip ext:	Not Reported
Pop serv:	2600	Connection:	1548
Area serve:	IDYLLWILD		

**A5  
WNW  
1/8 - 1/4 Mile  
Lower**

**CA WELLS    5829**

Seq:	5829	Prim sta c:	05S/02E-12B02 S
Frds no:	3310019008	County:	33
District:	14	User id:	WAT
System no:	3310019	Water type:	G
Source nam:	FOSTER LAKE 02	Station ty:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Latitude:	334500.0	Longitude:	1164300.0
Precision:	8	Status:	AR
Comment 1:	Not Reported	Comment 2:	Not Reported
Comment 3:	Not Reported	Comment 4:	Not Reported
Comment 5:	Not Reported	Comment 6:	Not Reported
Comment 7:	Not Reported		
System no:	3310019	System nam:	Idyllwild Wd
Hqname:	Not Reported	Address:	PO BOX 397
City:	IDYLLWILD	State:	CA
Zip:	92349	Zip ext:	Not Reported
Pop serv:	2600	Connection:	1548
Area serve:	IDYLLWILD		
Sample date:	12-JUL-17	Finding:	94.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dir:	0.		
Sample date:	28-JUL-16	Finding:	150.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dir:	0.		
Sample date:	28-JUL-16	Finding:	2.5
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dir:	0.1		
Sample date:	28-JUL-16	Finding:	88.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dir:	0.		
Sample date:	28-JUL-16	Finding:	70.
Chemical:	ALUMINUM	Report units:	UG/L
Dir:	50.		
Sample date:	28-JUL-16	Finding:	870.

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Chemical: Dir:	IRON 100.	Report units:	UG/L
Sample date: Chemical: Dir:	28-JUL-16 BARIUM 100.	Finding: Report units:	51. UG/L
Sample date: Chemical: Dir:	28-JUL-16 SULFATE 0.5	Finding: Report units:	3.4 MG/L
Sample date: Chemical: Dir:	28-JUL-16 CHLORIDE 0.	Finding: Report units:	4.9 MG/L
Sample date: Chemical: Dir:	28-JUL-16 POTASSIUM 0.	Finding: Report units:	2.2 MG/L
Sample date: Chemical: Dir:	28-JUL-16 SODIUM 0.	Finding: Report units:	13. MG/L
Sample date: Chemical: Dir:	28-JUL-16 MAGNESIUM 0.	Finding: Report units:	2. MG/L
Sample date: Chemical: Dir:	28-JUL-16 CALCIUM 0.	Finding: Report units:	13. MG/L
Sample date: Chemical: Dir:	28-JUL-16 HARDNESS (TOTAL) AS CaCO <sub>3</sub> 0.	Finding: Report units:	40. MG/L
Sample date: Chemical: Dir:	28-JUL-16 NITRATE (AS N) 0.4	Finding: Report units:	0.83 MG/L
Sample date: Chemical: Dir:	28-JUL-16 BICARBONATE ALKALINITY 0.	Finding: Report units:	63. MG/L
Sample date: Chemical: Dir:	28-JUL-16 ALKALINITY (TOTAL) AS CaCO <sub>3</sub> 0.	Finding: Report units:	52. MG/L
Sample date: Chemical: Dir:	28-JUL-16 COLOR 0.	Finding: Report units:	3. UNITS
Sample date: Chemical: Dir:	28-JUL-16 PH, LABORATORY 0.	Finding: Report units:	6.5 Not Reported
Sample date: Chemical: Dir:	13-AUG-15 IRON 100.	Finding: Report units:	480. UG/L
Sample date: Chemical: Dir:	23-MAY-13 TOTAL DISSOLVED SOLIDS 0.	Finding: Report units:	96. MG/L

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample date:	23-MAY-13	Finding:	540.
Chemical:	MANGANESE	Report units:	UG/L
Dir:	20.		
Sample date:	23-MAY-13	Finding:	140.
Chemical:	IRON	Report units:	UG/L
Dir:	100.		
Sample date:	23-MAY-13	Finding:	0.2
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dir:	0.1		
Sample date:	23-MAY-13	Finding:	6.6
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dir:	0.		
Sample date:	23-MAY-13	Finding:	1.8
Chemical:	POTASSIUM	Report units:	MG/L
Dir:	0.		
Sample date:	23-MAY-13	Finding:	11.
Chemical:	SODIUM	Report units:	MG/L
Dir:	0.		
Sample date:	23-MAY-13	Finding:	1.5
Chemical:	MAGNESIUM	Report units:	MG/L
Dir:	0.		
Sample date:	23-MAY-13	Finding:	9.7
Chemical:	CALCIUM	Report units:	MG/L
Dir:	0.		
Sample date:	23-MAY-13	Finding:	31.
Chemical:	HARDNESS (TOTAL) AS CaCO3	Report units:	MG/L
Dir:	0.		
Sample date:	23-MAY-13	Finding:	56.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dir:	0.		
Sample date:	23-MAY-13	Finding:	46.
Chemical:	ALKALINITY (TOTAL) AS CaCO3	Report units:	MG/L
Dir:	0.		
Sample date:	23-MAY-13	Finding:	110.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dir:	0.		
Sample date:	23-MAY-13	Finding:	3.6
Chemical:	CHLORIDE	Report units:	MG/L
Dir:	0.		

**A6  
WNW  
1/8 - 1/4 Mile  
Lower**

**CA WELLS 5850**

Seq:	5850	Prim sta c:	05S/02W-12G01 S
Frds no:	3310019029	County:	33
District:	14	User id:	WAT
System no:	3310019	Water type:	G

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Source nam:	DUTCH FLAT 05 - INACTIVE	Station ty:	WELL/AMBNT/MUN/INTAKE
Latitude:	334500.0	Longitude:	1164300.0
Precision:	3	Status:	IR
Comment 1:	Not Reported	Comment 2:	Not Reported
Comment 3:	Not Reported	Comment 4:	Not Reported
Comment 5:	Not Reported	Comment 6:	Not Reported
Comment 7:	Not Reported		
System no:	3310019	System nam:	Idyllwild Wd
Hqname:	Not Reported	Address:	PO BOX 397
City:	IDYLLWILD	State:	CA
Zip:	92349	Zip ext:	Not Reported
Pop serv:	2600	Connection:	1548
Area serve:	IDYLLWILD		
Sample date:	22-SEP-16	Finding:	3.13
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dir:	3.		
Sample date:	22-SEP-16	Finding:	0.908
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dir:	0.		
Sample date:	22-SEP-16	Finding:	1.22
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dir:	0.		
Sample date:	23-DEC-15	Finding:	66.
Chemical:	BARIUM	Report units:	UG/L
Dir:	100.		

**A7**  
**WNW**  
**1/8 - 1/4 Mile**  
**Lower**

**CA WELLS    5864**

Seq:	5864	Prim sta c:	05S/03E-12F01 S
Frds no:	3310019027	County:	33
District:	14	User id:	WAT
System no:	3310019	Water type:	G
Source nam:	DUTCH FLAT 01 - INACTIVE	Station ty:	WELL/AMBNT/MUNINTAKE
Latitude:	334500.0	Longitude:	1164300.0
Precision:	3	Status:	IR
Comment 1:	Not Reported	Comment 2:	Not Reported
Comment 3:	Not Reported	Comment 4:	Not Reported
Comment 5:	Not Reported	Comment 6:	Not Reported
Comment 7:	Not Reported		
System no:	3310019	System nam:	Idyllwild Wd
Hqname:	Not Reported	Address:	PO BOX 397
City:	IDYLLWILD	State:	CA
Zip:	92349	Zip ext:	Not Reported
Pop serv:	2600	Connection:	1548
Area serve:	IDYLLWILD		

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
 Direction  
 Distance  
 Elevation

Database      EDR ID Number

**A8**  
**WNW**  
**1/8 - 1/4 Mile**  
**Lower**

**CA WELLS      5845**

Seq:	5845	Prim sta c:	05S/02E-13H02 S
Frds no:	3310019002	County:	33
District:	14	User id:	WAT
System no:	3310019	Water type:	G
Source nam:	DONAHOO WELL 25 - INACTIVE	Station ty:	WELL/AMBNT/MUN/INTAKE
Latitude:	334500.0	Longitude:	1164300.0
Precision:	2	Status:	IR
Comment 1:	Not Reported	Comment 2:	Not Reported
Comment 3:	Not Reported	Comment 4:	Not Reported
Comment 5:	Not Reported	Comment 6:	Not Reported
Comment 7:	Not Reported		

System no:	3310019	System nam:	Idyllwild Wd
Hqname:	Not Reported	Address:	PO BOX 397
City:	IDYLLWILD	State:	CA
Zip:	92349	Zip ext:	Not Reported
Pop serv:	2600	Connection:	1548
Area serve:	IDYLLWILD		

Sample date:	30-NOV-17	Finding:	2.1
Chemical:	POTASSIUM	Report units:	MG/L
Dir:	0.		

Sample date:	30-NOV-17	Finding:	38.
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dir:	0.1		

Sample date:	30-NOV-17	Finding:	3.7
Chemical:	MAGNESIUM	Report units:	MG/L
Dir:	0.		

Sample date:	30-NOV-17	Finding:	24.
Chemical:	CALCIUM	Report units:	MG/L
Dir:	0.		

Sample date:	30-NOV-17	Finding:	77.
Chemical:	HARDNESS (TOTAL) AS CaCO3	Report units:	MG/L
Dir:	0.		

Sample date:	30-NOV-17	Finding:	0.85
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dir:	0.4		

Sample date:	30-NOV-17	Finding:	95.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dir:	0.		

Sample date:	30-NOV-17	Finding:	95.
Chemical:	ALKALINITY (TOTAL) AS CaCO3	Report units:	MG/L
Dir:	0.		

Sample date:	30-NOV-17	Finding:	7.3
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dir:	0.		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample date:	30-NOV-17	Finding:	270.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dir:	0.		
Sample date:	30-NOV-17	Finding:	4.
Chemical:	ODOR THRESHOLD @ 60 C	Report units:	TON
Dir:	1.		
Sample date:	30-NOV-17	Finding:	23.
Chemical:	SODIUM	Report units:	MG/L
Dir:	0.		
Sample date:	30-NOV-17	Finding:	170.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dir:	0.		
Sample date:	30-NOV-17	Finding:	21.
Chemical:	CHLORIDE	Report units:	MG/L
Dir:	0.		
Sample date:	30-NOV-17	Finding:	2.5
Chemical:	SULFATE	Report units:	MG/L
Dir:	0.5		
Sample date:	30-NOV-17	Finding:	0.12
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dir:	0.1		
Sample date:	30-NOV-17	Finding:	150.
Chemical:	BARIUM	Report units:	UG/L
Dir:	100.		
Sample date:	30-NOV-17	Finding:	6400.
Chemical:	IRON	Report units:	UG/L
Dir:	100.		
Sample date:	30-MAR-16	Finding:	5.27
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dir:	3.		
Sample date:	30-MAR-16	Finding:	1.47
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dir:	0.		
Sample date:	30-MAR-16	Finding:	7.32
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dir:	1.		
Sample date:	30-MAR-16	Finding:	1.67
Chemical:	URANIUM COUNTING ERROR	Report units:	PCI/L
Dir:	0.		
Sample date:	30-MAR-16	Finding:	0.916
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dir:	0.		
Sample date:	30-MAR-16	Finding:	0.3
Chemical:	URANIUM MDA95	Report units:	PCI/L
Dir:	0.		
Sample date:	17-SEP-15	Finding:	4.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Dir:	2.		
Sample date:	24-SEP-14	Finding:	4.5
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dir:	2.		
Sample date:	24-SEP-14	Finding:	240.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dir:	0.		
Sample date:	24-SEP-14	Finding:	33.
Chemical:	MANGANESE	Report units:	UG/L
Dir:	20.		
Sample date:	24-SEP-14	Finding:	210.
Chemical:	IRON	Report units:	UG/L
Dir:	100.		
Sample date:	24-SEP-14	Finding:	180.
Chemical:	BARIUM	Report units:	UG/L
Dir:	100.		
Sample date:	24-SEP-14	Finding:	3.5
Chemical:	SULFATE	Report units:	MG/L
Dir:	0.5		
Sample date:	24-SEP-14	Finding:	26.
Chemical:	CHLORIDE	Report units:	MG/L
Dir:	0.		
Sample date:	24-SEP-14	Finding:	1.9
Chemical:	POTASSIUM	Report units:	MG/L
Dir:	0.		
Sample date:	24-SEP-14	Finding:	25.
Chemical:	SODIUM	Report units:	MG/L
Dir:	0.		
Sample date:	24-SEP-14	Finding:	5.1
Chemical:	MAGNESIUM	Report units:	MG/L
Dir:	0.		
Sample date:	24-SEP-14	Finding:	28.
Chemical:	CALCIUM	Report units:	MG/L
Dir:	0.		
Sample date:	24-SEP-14	Finding:	93.
Chemical:	HARDNESS (TOTAL) AS CaCO3	Report units:	MG/L
Dir:	0.		
Sample date:	24-SEP-14	Finding:	120.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dir:	0.		
Sample date:	24-SEP-14	Finding:	100.
Chemical:	ALKALINITY (TOTAL) AS CaCO3	Report units:	MG/L
Dir:	0.		
Sample date:	24-SEP-14	Finding:	6.6
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dir:	0.		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample date:	24-SEP-14	Finding:	320.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dir:	0.		
Sample date:	24-SEP-14	Finding:	3.
Chemical:	COLOR	Report units:	UNITS
Dir:	0.		
Sample date:	24-SEP-14	Finding:	1.9
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dir:	0.1		
Sample date:	19-JUN-13	Finding:	1.12
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dir:	0.		
Sample date:	19-JUN-13	Finding:	1.06
Chemical:	URANIUM COUNTING ERROR	Report units:	PCI/L
Dir:	0.		
Sample date:	19-JUN-13	Finding:	2.05
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dir:	1.		
Sample date:	19-JUN-13	Finding:	1.61
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dir:	0.		
Sample date:	19-JUN-13	Finding:	4.99
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dir:	3.		
Sample date:	19-JUN-13	Finding:	5.4
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dir:	2.		
Sample date:	19-JUN-13	Finding:	0.363
Chemical:	URANIUM MDA95	Report units:	PCI/L
Dir:	0.		
Sample date:	20-DEC-12	Finding:	5.4
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dir:	2.		

**A9**  
**WNW**  
**1/8 - 1/4 Mile**  
**Lower**

**CA WELLS 5833**

Seq:	5833	Prim sta c:	05S/02E-12B06 S
Frds no:	3310019012	County:	33
District:	14	User id:	WAT
System no:	3310019	Water type:	G
Source nam:	FOSTER LAKE 06 - ABANDONED	Station ty:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Latitude:	334500.0	Longitude:	1164300.0
Precision:	8	Status:	AB
Comment 1:	Not Reported	Comment 2:	Not Reported
Comment 3:	Not Reported	Comment 4:	Not Reported
Comment 5:	Not Reported	Comment 6:	Not Reported
Comment 7:	Not Reported		



## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

System no:	3310019	System nam:	Idyllwild Wd
Hqname:	Not Reported	Address:	PO BOX 397
City:	IDYLLWILD	State:	CA
Zip:	92349	Zip ext:	Not Reported
Pop serv:	2600	Connection:	1548
Area serve:	IDYLLWILD		

**A10  
WNW  
1/8 - 1/4 Mile  
Lower**

**CA WELLS    5834**

Seq:	5834	Prim sta c:	05S/02E-12B07 S
Frds no:	3310019013	County:	33
District:	14	User id:	WAT
System no:	3310019	Water type:	G
Source nam:	FOSTER LAKE 07 - INACTIVE	Station ty:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Latitude:	334500.0	Longitude:	1164300.0
Precision:	8	Status:	IR
Comment 1:	Not Reported	Comment 2:	Not Reported
Comment 3:	Not Reported	Comment 4:	Not Reported
Comment 5:	Not Reported	Comment 6:	Not Reported
Comment 7:	Not Reported		

System no:	3310019	System nam:	Idyllwild Wd
Hqname:	Not Reported	Address:	PO BOX 397
City:	IDYLLWILD	State:	CA
Zip:	92349	Zip ext:	Not Reported
Pop serv:	2600	Connection:	1548
Area serve:	IDYLLWILD		

**B11  
NNW  
1/2 - 1 Mile  
Higher**

**CA WELLS    5862**

Seq:	5862	Prim sta c:	05S/03E-07D01 S
Frds no:	3310019022	County:	33
District:	14	User id:	WAT
System no:	3310019	Water type:	G
Source nam:	HORIZONTAL WELL 11 - INACTIVE	Station ty:	WELL/AMBNT
Latitude:	334531.0	Longitude:	1164258.0
Precision:	2	Status:	IR
Comment 1:	Not Reported	Comment 2:	Not Reported
Comment 3:	Not Reported	Comment 4:	Not Reported
Comment 5:	Not Reported	Comment 6:	Not Reported
Comment 7:	Not Reported		

System no:	3310019	System nam:	Idyllwild Wd
Hqname:	Not Reported	Address:	PO BOX 397
City:	IDYLLWILD	State:	CA
Zip:	92349	Zip ext:	Not Reported
Pop serv:	2600	Connection:	1548
Area serve:	IDYLLWILD		

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
 Direction  
 Distance  
 Elevation

Database      EDR ID Number

**B12**  
**NNW**  
**1/2 - 1 Mile**  
**Higher**

**CA WELLS      5869**

Seq:	5869	Prim sta c:	05S/03E-18D02 S
Frds no:	3310019001	County:	33
District:	14	User id:	WAT
System no:	3310019	Water type:	G
Source nam:	CURTIS WELL 24	Station ty:	WELL/AMBNT/MUN/INTAKE
Latitude:	334531.0	Longitude:	1164258.0
Precision:	2	Status:	AR
Comment 1:	Not Reported	Comment 2:	Not Reported
Comment 3:	Not Reported	Comment 4:	Not Reported
Comment 5:	Not Reported	Comment 6:	Not Reported
Comment 7:	Not Reported		

System no:	3310019	System nam:	Idyllwild Wd
Hqname:	Not Reported	Address:	PO BOX 397
City:	IDYLLWILD	State:	CA
Zip:	92349	Zip ext:	Not Reported
Pop serv:	2600	Connection:	1548
Area serve:	IDYLLWILD		

Sample date:	24-JUL-17	Finding:	170.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dir:	0.		

Sample date:	02-FEB-17	Finding:	1.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dir:	0.4		

Sample date:	25-AUG-16	Finding:	0.95
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dir:	0.4		

Sample date:	25-AUG-16	Finding:	160.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dir:	0.		

Sample date:	29-OCT-15	Finding:	7.2
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dir:	0.		

Sample date:	29-OCT-15	Finding:	87.
Chemical:	ALKALINITY (TOTAL) AS CaCO3	Report units:	MG/L
Dir:	0.		

Sample date:	29-OCT-15	Finding:	110.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dir:	0.		

Sample date:	29-OCT-15	Finding:	64.
Chemical:	HARDNESS (TOTAL) AS CaCO3	Report units:	MG/L
Dir:	0.		

Sample date:	29-OCT-15	Finding:	21.
Chemical:	CALCIUM	Report units:	MG/L
Dir:	0.		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample date:	29-OCT-15	Finding:	2.7
Chemical:	MAGNESIUM	Report units:	MG/L
Dir:	0.		
Sample date:	29-OCT-15	Finding:	21.
Chemical:	SODIUM	Report units:	MG/L
Dir:	0.		
Sample date:	29-OCT-15	Finding:	1.9
Chemical:	POTASSIUM	Report units:	MG/L
Dir:	0.		
Sample date:	29-OCT-15	Finding:	8.2
Chemical:	CHLORIDE	Report units:	MG/L
Dir:	0.		
Sample date:	29-OCT-15	Finding:	3.3
Chemical:	SULFATE	Report units:	MG/L
Dir:	0.5		
Sample date:	29-OCT-15	Finding:	31.
Chemical:	BARIUM	Report units:	UG/L
Dir:	100.		
Sample date:	29-OCT-15	Finding:	220.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dir:	0.		
Sample date:	29-OCT-15	Finding:	4.1
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dir:	2.		
Sample date:	29-OCT-15	Finding:	240.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dir:	0.		
Sample date:	17-JUL-14	Finding:	4.2
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dir:	2.		
Sample date:	29-MAY-13	Finding:	27.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dir:	2.		
Sample date:	12-DEC-12	Finding:	230.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dir:	0.		
Sample date:	12-DEC-12	Finding:	6.8
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dir:	0.		
Sample date:	12-DEC-12	Finding:	85.
Chemical:	ALKALINITY (TOTAL) AS CaCO3	Report units:	MG/L
Dir:	0.		
Sample date:	12-DEC-12	Finding:	100.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dir:	0.		
Sample date:	12-DEC-12	Finding:	65.
Chemical:	HARDNESS (TOTAL) AS CaCO3	Report units:	MG/L

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Dir:	0.	Finding:	21.
Sample date:	12-DEC-12	Report units:	MG/L
Chemical:	CALCIUM		
Dir:	0.		
Sample date:	12-DEC-12	Finding:	3.7
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dir:	2.		
Sample date:	12-DEC-12	Finding:	22.
Chemical:	SODIUM	Report units:	MG/L
Dir:	0.		
Sample date:	12-DEC-12	Finding:	2.2
Chemical:	POTASSIUM	Report units:	MG/L
Dir:	0.		
Sample date:	12-DEC-12	Finding:	10.
Chemical:	CHLORIDE	Report units:	MG/L
Dir:	0.		
Sample date:	12-DEC-12	Finding:	4.7
Chemical:	SULFATE	Report units:	MG/L
Dir:	0.5		
Sample date:	12-DEC-12	Finding:	160.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dir:	0.		
Sample date:	12-DEC-12	Finding:	3.
Chemical:	MAGNESIUM	Report units:	MG/L
Dir:	0.		

**13  
SSW  
1/2 - 1 Mile  
Lower**

**FRDS PWS CA3301902**

Epa region:	09	State:	CA
Pwsid:	CA3301902	Pwsname:	Lake Fulmor - USFS
Cityserved:	Not Reported	Stateserved:	CA
Zipsserved:	Not Reported	Fipscounty:	06065
Status:	Active	Retpopsrvd:	125
Pwssvconn:	5	Psource longname:	Groundwater
Pwstype:	TNCWS	Owner:	Fed_Govt
Contact:	JOHN LADLEY	Contactorgname:	LAKE FULMOR - USFS
Contactphone:	Not Reported	Contactaddress1:	PO BOX 518
Contactaddress2:	Not Reported	Contactcity:	IDYLLWILD
Contactstate:	CA	Contactzip:	92549
Pwsactivitycode:	A		
PWS ID:	CA3301902	PWS type:	System Owner/Responsible Party
PWS name:	DWIGHT L BUSCHLEN	PWS address:	Not Reported
PWS city:	IDYLLWILD	PWS state:	CA
PWS zip:	92349	PWS name:	LAKE FULMOR - USFS
PWS type code:	NC	Retail population served:	125
Contact:	Gary Root	Contact address:	P.O. Box 7600
Contact address:	4065 County Circle Dr.	Contact city:	Riverside
Contact state:	CA	Contact zip:	92513
Contact telephone:	9093585316		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

PWS ID:	CA3301902	Activity status:	Active
Date system activated:	7706	Date system deactivated:	Not Reported
Retail population:	00000180	System name:	DWIGHT L BUSCHLEN
System address:	DWIGHT L BUSCHLEN	System address:	HWY 24
System city:	IDYLLWILD	System state:	CA
System zip:	92349		
Population served:	101 - 500 Persons	Treatment:	Untreated
Latitude:	334424	Longitude:	1164305
Violation id:	0000003	Orig code:	S
State:	CA	Violation Year:	2000
Contamination code:	3100	Contamination Name:	Coliform (TCR)
Violation code:	24	Violation name:	Monitoring, Routine Minor (TCR)
Rule code:	110	Rule name:	TCR
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	02/01/2000
Cmp edt:	02/29/2000		
Violation id:	0000004	Orig code:	S
State:	CA	Violation Year:	2000
Contamination code:	3100	Contamination Name:	Coliform (TCR)
Violation code:	24	Violation name:	Monitoring, Routine Minor (TCR)
Rule code:	110	Rule name:	TCR
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	04/01/2000
Cmp edt:	06/30/2000		
Violation id:	0000005	Orig code:	S
State:	CA	Violation Year:	2000
Contamination code:	3100	Contamination Name:	Coliform (TCR)
Violation code:	26	Violation name:	Monitoring, Repeat Minor (TCR)
Rule code:	110	Rule name:	TCR
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	06/01/2000
Cmp edt:	07/01/2000		
Violation id:	0000006	Orig code:	S
State:	CA	Violation Year:	2000
Contamination code:	3100	Contamination Name:	Coliform (TCR)
Violation code:	26	Violation name:	Monitoring, Repeat Minor (TCR)
Rule code:	110	Rule name:	TCR
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	11/01/2000
Cmp edt:	11/30/2000		
Violation id:	0000007	Orig code:	S
State:	CA	Violation Year:	2001
Contamination code:	3100	Contamination Name:	Coliform (TCR)
Violation code:	26	Violation name:	Monitoring, Repeat Minor (TCR)
Rule code:	110	Rule name:	TCR
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	02/01/2001
Cmp edt:	03/01/2001		
Violation id:	0000008	Orig code:	S
State:	CA	Violation Year:	2001
Contamination code:	3100	Contamination Name:	Coliform (TCR)
Violation code:	26	Violation name:	Monitoring, Repeat Minor (TCR)
Rule code:	110	Rule name:	TCR
Violation measur:	Not Reported	Unit of measure:	Not Reported

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

State mcl:	Not Reported	Cmp bdt:	03/01/2001
Cmp edt:	03/31/2001		
Violation id:	0000009	Orig code:	S
State:	CA	Violation Year:	2001
Contamination code:	3100	Contamination Name:	Coliform (TCR)
Violation code:	23	Violation name:	Monitoring, Routine Major (TCR)
Rule code:	110	Rule name:	TCR
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	06/01/2001
Cmp edt:	06/30/2001		
Violation id:	0000010	Orig code:	S
State:	CA	Violation Year:	2001
Contamination code:	3100	Contamination Name:	Coliform (TCR)
Violation code:	26	Violation name:	Monitoring, Repeat Minor (TCR)
Rule code:	110	Rule name:	TCR
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	07/01/2001
Cmp edt:	07/31/2001		
Violation id:	0000011	Orig code:	S
State:	CA	Violation Year:	2001
Contamination code:	3100	Contamination Name:	Coliform (TCR)
Violation code:	26	Violation name:	Monitoring, Repeat Minor (TCR)
Rule code:	110	Rule name:	TCR
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	08/01/2001
Cmp edt:	08/31/2001		
Violation id:	0300001	Orig code:	S
State:	CA	Violation Year:	2002
Contamination code:	3100	Contamination Name:	Coliform (TCR)
Violation code:	25	Violation name:	Monitoring, Repeat Major (TCR)
Rule code:	110	Rule name:	TCR
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	09/12/2002
Cmp edt:	10/12/2002		
Violation id:	0300012	Orig code:	S
State:	CA	Violation Year:	2002
Contamination code:	3100	Contamination Name:	Coliform (TCR)
Violation code:	25	Violation name:	Monitoring, Repeat Major (TCR)
Rule code:	110	Rule name:	TCR
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	09/12/2002
Cmp edt:	10/12/2002		
Violation id:	0400001	Orig code:	S
State:	CA	Violation Year:	2003
Contamination code:	3100	Contamination Name:	Coliform (TCR)
Violation code:	23	Violation name:	Monitoring, Routine Major (TCR)
Rule code:	110	Rule name:	TCR
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	12/01/2003
Cmp edt:	12/31/2003		
Violation id:	0400002	Orig code:	S
State:	CA	Violation Year:	2004
Contamination code:	3100	Contamination Name:	Coliform (TCR)
Violation code:	23	Violation name:	Monitoring, Routine Major (TCR)
Rule code:	110	Rule name:	TCR

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	03/01/2004
Cmp edt:	03/31/2004		
Violation id:	0400013	Orig code:	S
State:	CA	Violation Year:	2003
Contamination code:	3100	Contamination Name:	Coliform (TCR)
Violation code:	23	Violation name:	Monitoring, Routine Major (TCR)
Rule code:	110	Rule name:	TCR
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	12/01/2003
Cmp edt:	12/31/2003		
Violation id:	0400014	Orig code:	S
State:	CA	Violation Year:	2004
Contamination code:	3100	Contamination Name:	Coliform (TCR)
Violation code:	23	Violation name:	Monitoring, Routine Major (TCR)
Rule code:	110	Rule name:	TCR
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	03/01/2004
Cmp edt:	03/31/2004		
Violation id:	0500001	Orig code:	S
State:	CA	Violation Year:	2004
Contamination code:	3100	Contamination Name:	Coliform (TCR)
Violation code:	26	Violation name:	Monitoring, Repeat Minor (TCR)
Rule code:	110	Rule name:	TCR
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	05/01/2004
Cmp edt:	05/31/2004		
Violation id:	0500015	Orig code:	S
State:	CA	Violation Year:	2004
Contamination code:	3100	Contamination Name:	Coliform (TCR)
Violation code:	26	Violation name:	Monitoring, Repeat Minor (TCR)
Rule code:	110	Rule name:	TCR
Violation measur:	Not Reported	Unit of measure:	Not Reported
State mcl:	Not Reported	Cmp bdt:	05/01/2004
Cmp edt:	05/31/2004		
System Name:	LAKE FULMOR - USFS	Violation Type:	24
Contaminant:	3100	Compliance Begin:	2/1/2000 0:00:00
Compliance End:	2/28/2000 0:00:00	Violation ID:	0000002
Enforcement Date:	9/21/2001 0:00:00	Enforcement Action:	SFM
System Name:	LAKE FULMOR - USFS	Violation Type:	24
Contaminant:	3100	Compliance Begin:	02/01/00
Compliance End:	02/28/00	Violation ID:	0000002
Enforcement Date:	09/21/01	Enforcement Action:	SFM
System Name:	LAKE FULMOR - USFS	Violation Type:	24
Contaminant:	3100	Compliance Begin:	04/01/00
Compliance End:	06/30/00	Violation ID:	0000003
Enforcement Date:	09/21/01	Enforcement Action:	SFM
System Name:	LAKE FULMOR - USFS	Violation Type:	24
Contaminant:	3100	Compliance Begin:	4/1/2000 0:00:00
Compliance End:	6/30/2000 0:00:00	Violation ID:	0000003
Enforcement Date:	9/21/2001 0:00:00	Enforcement Action:	SFM
System Name:	LAKE FULMOR - USFS	Violation Type:	26
Contaminant:	3100	Compliance Begin:	06/01/00

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Compliance End:	07/31/00	Violation ID:	0000004
Enforcement Date:	09/21/01	Enforcement Action:	SFM
System Name:	LAKE FULMOR - USFS	Violation Type:	26
Contaminant:	3100	Compliance Begin:	6/1/2000 0:00:00
Compliance End:	7/31/2000 0:00:00	Violation ID:	0000004
Enforcement Date:	9/21/2001 0:00:00	Enforcement Action:	SFM
System Name:	LAKE FULMOR - USFS	Violation Type:	26
Contaminant:	3100	Compliance Begin:	11/01/00
Compliance End:	11/30/00	Violation ID:	0000006
Enforcement Date:	09/21/01	Enforcement Action:	SFM
System Name:	LAKE FULMOR - USFS	Violation Type:	26
Contaminant:	3100	Compliance Begin:	11/1/2000 0:00:00
Compliance End:	11/30/2000 0:00:00	Violation ID:	0000006
Enforcement Date:	9/21/2001 0:00:00	Enforcement Action:	SFM
System Name:	LAKE FULMOR - USFS	Violation Type:	26
Contaminant:	3100	Compliance Begin:	2/1/2001 0:00:00
Compliance End:	3/31/2001 0:00:00	Violation ID:	0000007
Enforcement Date:	No Enf Action as of	Enforcement Action:	10/17/2006 0:00:00
System Name:	LAKE FULMOR - USFS	Violation Type:	26
Contaminant:	3100	Compliance Begin:	2/1/2001 0:00:00
Compliance End:	3/31/2001 0:00:00	Violation ID:	0000007
Enforcement Date:	4/12/2007 0:00:00	Enforcement Action:	Not Reported
System Name:	LAKE FULMOR - USFS	Violation Type:	26
Contaminant:	3100	Compliance Begin:	3/1/2001 0:00:00
Compliance End:	3/31/2001 0:00:00	Violation ID:	0000008
Enforcement Date:	4/12/2007 0:00:00	Enforcement Action:	Not Reported
System Name:	LAKE FULMOR - USFS	Violation Type:	26
Contaminant:	3100	Compliance Begin:	3/1/2001 0:00:00
Compliance End:	3/31/2001 0:00:00	Violation ID:	0000008
Enforcement Date:	No Enf Action as of	Enforcement Action:	10/17/2006 0:00:00
System Name:	LAKE FULMOR - USFS	Violation Type:	23
Contaminant:	3100	Compliance Begin:	6/1/2001 0:00:00
Compliance End:	6/30/2001 0:00:00	Violation ID:	0000009
Enforcement Date:	4/12/2007 0:00:00	Enforcement Action:	Not Reported
System Name:	LAKE FULMOR - USFS	Violation Type:	23
Contaminant:	3100	Compliance Begin:	6/1/2001 0:00:00
Compliance End:	6/30/2001 0:00:00	Violation ID:	0000009
Enforcement Date:	No Enf Action as of	Enforcement Action:	10/17/2006 0:00:00
System Name:	LAKE FULMOR - USFS	Violation Type:	26
Contaminant:	3100	Compliance Begin:	07/01/01
Compliance End:	07/31/01	Violation ID:	0000010
Enforcement Date:	09/21/01	Enforcement Action:	SFM
System Name:	LAKE FULMOR - USFS	Violation Type:	26
Contaminant:	3100	Compliance Begin:	7/1/2001 0:00:00
Compliance End:	7/31/2001 0:00:00	Violation ID:	0000010
Enforcement Date:	9/21/2001 0:00:00	Enforcement Action:	SFM
System Name:	LAKE FULMOR - USFS	Violation Type:	26
Contaminant:	3100	Compliance Begin:	08/01/01
Compliance End:	08/31/01	Violation ID:	0000011
Enforcement Date:	09/21/01	Enforcement Action:	SFM



## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

System Name:	LAKE FULMOR - USFS	Violation Type:	26
Contaminant:	3100	Compliance Begin:	8/1/2001 0:00:00
Compliance End:	8/31/2001 0:00:00	Violation ID:	0000011
Enforcement Date:	9/21/2001 0:00:00	Enforcement Action:	SFM
System Name:	LAKE FULMOR - USFS	Violation Type:	25
Contaminant:	3100	Compliance Begin:	9/1/2002 0:00:00
Compliance End:	10/31/2002 0:00:00	Violation ID:	0300001
Enforcement Date:	4/12/2007 0:00:00	Enforcement Action:	Not Reported
System Name:	LAKE FULMOR - USFS	Violation Type:	25
Contaminant:	3100	Compliance Begin:	9/1/2002 0:00:00
Compliance End:	10/31/2002 0:00:00	Violation ID:	0300001
Enforcement Date:	No Enf Action as of	Enforcement Action:	10/17/2006 0:00:00
System Name:	LAKE FULMOR - USFS	Violation Type:	23
Contaminant:	3100	Compliance Begin:	12/1/2003 0:00:00
Compliance End:	12/31/2003 0:00:00	Violation ID:	0400001
Enforcement Date:	1/15/2004 0:00:00	Enforcement Action:	SFM
System Name:	LAKE FULMOR - USFS	Violation Type:	23
Contaminant:	3100	Compliance Begin:	12/1/2003 0:00:00
Compliance End:	12/31/2003 0:00:00	Violation ID:	0400001
Enforcement Date:	4/12/2007 0:00:00	Enforcement Action:	Not Reported
System Name:	LAKE FULMOR - USFS	Violation Type:	23
Contaminant:	3100	Compliance Begin:	03/01/04
Compliance End:	03/31/04	Violation ID:	0400002
Enforcement Date:	04/16/04	Enforcement Action:	SFM
System Name:	LAKE FULMOR - USFS	Violation Type:	23
Contaminant:	3100	Compliance Begin:	3/1/2004 0:00:00
Compliance End:	3/31/2004 0:00:00	Violation ID:	0400002
Enforcement Date:	4/16/2004 0:00:00	Enforcement Action:	SFM
System Name:	LAKE FULMOR - USFS	Violation Type:	26
Contaminant:	3100	Compliance Begin:	5/1/2004 0:00:00
Compliance End:	5/31/2004 0:00:00	Violation ID:	0500001
Enforcement Date:	10/19/2004 0:00:00	Enforcement Action:	SFJ
System Name:	LAKE FULMOR - USFS	Violation Type:	26
Contaminant:	3100	Compliance Begin:	05/01/04
Compliance End:	05/31/04	Violation ID:	0500001
Enforcement Date:	10/19/04	Enforcement Action:	SFJ
System Name:	US FOREST SERVICE - SAN BE	Contaminant:	3100
Violation Type:	23	Compliance End:	1999-03-31
Compliance Begin:	1999-01-01	Enforcement Date:	Not Reported
Violation ID:	9963001		
Enforcement Action:	Not Reported		
Violation ID:	0000001	Orig Code:	S
Enforcement FY:	2001	Enforcement Action:	09/21/2001
Enforcement Detail:	St Violation/Reminder Notice		
Enforcement Category:	Informal		
Violation ID:	0000002	Orig Code:	S
Enforcement FY:	2001	Enforcement Action:	09/21/2001
Enforcement Detail:	St Violation/Reminder Notice		
Enforcement Category:	Informal		
Violation ID:	0000003	Orig Code:	S

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Enforcemnt FY:	2001	Enforcement Action:	09/21/2001
Enforcement Detail:	St Violation/Reminder Notice		
Enforcement Category:	Informal		
Violation ID:	0000004	Orig Code:	S
Enforcemnt FY:	2001	Enforcement Action:	09/21/2001
Enforcement Detail:	St Violation/Reminder Notice		
Enforcement Category:	Informal		
Violation ID:	0000005	Orig Code:	S
Enforcemnt FY:	2001	Enforcement Action:	09/21/2001
Enforcement Detail:	St Violation/Reminder Notice		
Enforcement Category:	Informal		
Violation ID:	0000006	Orig Code:	S
Enforcemnt FY:	2001	Enforcement Action:	09/21/2001
Enforcement Detail:	St Violation/Reminder Notice		
Enforcement Category:	Informal		
Violation ID:	0000010	Orig Code:	S
Enforcemnt FY:	2001	Enforcement Action:	09/21/2001
Enforcement Detail:	St Violation/Reminder Notice		
Enforcement Category:	Informal		
Violation ID:	0000011	Orig Code:	S
Enforcemnt FY:	2001	Enforcement Action:	09/21/2001
Enforcement Detail:	St Violation/Reminder Notice		
Enforcement Category:	Informal		
Violation ID:	0300001	Orig Code:	S
Enforcemnt FY:	2003	Enforcement Action:	10/30/2002
Enforcement Detail:	St Formal NOV issued	Enforcement Category:	Informal
Violation ID:	0400001	Orig Code:	S
Enforcemnt FY:	2004	Enforcement Action:	01/15/2004
Enforcement Detail:	St Admin Penalty assessed	Enforcement Category:	Formal
Violation ID:	0400002	Orig Code:	S
Enforcemnt FY:	2004	Enforcement Action:	04/16/2004
Enforcement Detail:	St Admin Penalty assessed	Enforcement Category:	Formal
Violation ID:	0500001	Orig Code:	S
Enforcemnt FY:	2005	Enforcement Action:	10/19/2004
Enforcement Detail:	St Formal NOV issued	Enforcement Category:	Informal
Violation ID:	9900001	Orig Code:	S
Enforcemnt FY:	2001	Enforcement Action:	09/21/2001
Enforcement Detail:	St Violation/Reminder Notice		
Enforcement Category:	Informal		
PWS name:	LAKE FULMOR - USFS	Population served:	125
PWS type code:	NC	Violation ID:	0000003
Contaminant:	COLIFORM (TCR)	Violation type:	Monitoring, Routine Minor (TCR)
Compliance start date:	2/1/2000 0:00:00	Compliance end date:	2/29/2000 0:00:00
Enforcement date:	9/21/2001 0:00:00	Enforcement action:	State Violation/Reminder Notice
Violation measurement:	Not Reported		
PWS name:	LAKE FULMOR - USFS	Population served:	125
PWS type code:	NC	Violation ID:	0000004
Contaminant:	COLIFORM (TCR)	Violation type:	Monitoring, Routine Minor (TCR)
Compliance start date:	4/1/2000 0:00:00	Compliance end date:	6/30/2000 0:00:00
Enforcement date:	9/21/2001 0:00:00	Enforcement action:	State Violation/Reminder Notice

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Violation measurement:	Not Reported		
PWS name:	LAKE FULMOR - USFS	Population served:	125
PWS type code:	NC	Violation ID:	0000005
Contaminant:	COLIFORM (TCR)	Violation type:	Monitoring, Repeat Minor (TCR)
Compliance start date:	6/1/2000 0:00:00	Compliance end date:	7/1/2000 0:00:00
Enforcement date:	9/21/2001 0:00:00	Enforcement action:	State Violation/Reminder Notice
Violation measurement:	Not Reported		
PWS name:	LAKE FULMOR - USFS	Population served:	125
PWS type code:	NC	Violation ID:	0000006
Contaminant:	COLIFORM (TCR)	Violation type:	Monitoring, Repeat Minor (TCR)
Compliance start date:	11/1/2000 0:00:00	Compliance end date:	11/30/2000 0:00:00
Enforcement date:	9/21/2001 0:00:00	Enforcement action:	State Violation/Reminder Notice
Violation measurement:	Not Reported		
PWS name:	LAKE FULMOR - USFS	Population served:	125
PWS type code:	NC	Violation ID:	0000007
Contaminant:	COLIFORM (TCR)	Violation type:	Monitoring, Repeat Minor (TCR)
Compliance start date:	2/1/2001 0:00:00	Compliance end date:	3/1/2001 0:00:00
Enforcement date:	No Enf Action as of	Enforcement action:	7/8/2009 0:00:00
Violation measurement:	Not Reported		
PWS name:	LAKE FULMOR - USFS	Population served:	125
PWS type code:	NC	Violation ID:	0000008
Contaminant:	COLIFORM (TCR)	Violation type:	Monitoring, Repeat Minor (TCR)
Compliance start date:	3/1/2001 0:00:00	Compliance end date:	3/31/2001 0:00:00
Enforcement date:	No Enf Action as of	Enforcement action:	7/8/2009 0:00:00
Violation measurement:	Not Reported		
PWS name:	LAKE FULMOR - USFS	Population served:	125
PWS type code:	NC	Violation ID:	0000009
Contaminant:	COLIFORM (TCR)	Violation type:	Monitoring, Routine Major (TCR)
Compliance start date:	6/1/2001 0:00:00	Compliance end date:	6/30/2001 0:00:00
Enforcement date:	No Enf Action as of	Enforcement action:	7/8/2009 0:00:00
Violation measurement:	Not Reported		
PWS name:	LAKE FULMOR - USFS	Population served:	125
PWS type code:	NC	Violation ID:	0000010
Contaminant:	COLIFORM (TCR)	Violation type:	Monitoring, Repeat Minor (TCR)
Compliance start date:	7/1/2001 0:00:00	Compliance end date:	7/31/2001 0:00:00
Enforcement date:	9/21/2001 0:00:00	Enforcement action:	State Violation/Reminder Notice
Violation measurement:	Not Reported		
PWS name:	LAKE FULMOR - USFS	Population served:	125
PWS type code:	NC	Violation ID:	0000011
Contaminant:	COLIFORM (TCR)	Violation type:	Monitoring, Repeat Minor (TCR)
Compliance start date:	8/1/2001 0:00:00	Compliance end date:	8/31/2001 0:00:00
Enforcement date:	9/21/2001 0:00:00	Enforcement action:	State Violation/Reminder Notice
Violation measurement:	Not Reported		
PWS name:	LAKE FULMOR - USFS	Population served:	125
PWS type code:	NC	Violation ID:	0300001
Contaminant:	COLIFORM (TCR)	Violation type:	Monitoring, Repeat Major (TCR)
Compliance start date:	9/12/2002 0:00:00	Compliance end date:	10/12/2002 0:00:00
Enforcement date:	10/30/2002 0:00:00	Enforcement action:	State Formal NOV Issued
Violation measurement:	Not Reported		
PWS name:	LAKE FULMOR - USFS	Population served:	125
PWS type code:	NC	Violation ID:	0400001
Contaminant:	COLIFORM (TCR)	Violation type:	Monitoring, Routine Major (TCR)
Compliance start date:	12/1/2003 0:00:00	Compliance end date:	12/31/2003 0:00:00

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Enforcement date:	1/15/2004 0:00:00	Enforcement action:	State Admin Penalty Assessed
Violation measurement:	Not Reported		
PWS name:	LAKE FULMOR - USFS	Population served:	125
PWS type code:	NC	Violation ID:	0400002
Contaminant:	COLIFORM (TCR)	Violation type:	Monitoring, Routine Major (TCR)
Compliance start date:	3/1/2004 0:00:00	Compliance end date:	3/31/2004 0:00:00
Enforcement date:	4/16/2004 0:00:00	Enforcement action:	State Admin Penalty Assessed
Violation measurement:	Not Reported		
PWS name:	LAKE FULMOR - USFS	Population served:	125
PWS type code:	NC	Violation ID:	0500001
Contaminant:	COLIFORM (TCR)	Violation type:	Monitoring, Repeat Minor (TCR)
Compliance start date:	5/1/2004 0:00:00	Compliance end date:	5/31/2004 0:00:00
Enforcement date:	10/19/2004 0:00:00	Enforcement action:	State Formal NOV Issued
Violation measurement:	Not Reported		

**C14**  
**East**  
**1/2 - 1 Mile**  
**Lower**

**CA WELLS    5863**

Seq:	5863	Prim sta c:	05S/03E-08L01 S
Frds no:	3310040008	County:	33
District:	14	User id:	WAT
System no:	3310040	Water type:	G
Source nam:	WELL 05 - ABANDONED	Station ty:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Latitude:	334500.0	Longitude:	1164200.0
Precision:	8	Status:	AB
Comment 1:	Not Reported	Comment 2:	Not Reported
Comment 3:	Not Reported	Comment 4:	Not Reported
Comment 5:	Not Reported	Comment 6:	Not Reported
Comment 7:	Not Reported		
System no:	3310040	System nam:	Fern Valley Wd
Hqname:	Not Reported	Address:	PO BOX 387
City:	IDYLLWILD	State:	CA
Zip:	92549	Zip ext:	Not Reported
Pop serv:	1000	Connection:	1053
Area serve:	FERN VALLEY		

**C15**  
**East**  
**1/2 - 1 Mile**  
**Lower**

**CA WELLS    5867**

Seq:	5867	Prim sta c:	05S/03E-18B01 S
Frds no:	3310019023	County:	33
District:	14	User id:	WAT
System no:	3310019	Water type:	G
Source nam:	MARIAN VIEW - INACTIVE	Station ty:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Latitude:	334500.0	Longitude:	1164200.0
Precision:	8	Status:	IR
Comment 1:	Not Reported	Comment 2:	Not Reported
Comment 3:	Not Reported	Comment 4:	Not Reported
Comment 5:	Not Reported	Comment 6:	Not Reported
Comment 7:	Not Reported		
System no:	3310019	System nam:	Idyllwild Wd
Hqname:	Not Reported	Address:	PO BOX 397

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

City:	IDYLLWILD	State:	CA
Zip:	92349	Zip ext:	Not Reported
Pop serv:	2600	Connection:	1548
Area serve:	IDYLLWILD		

**C16  
East  
1/2 - 1 Mile  
Lower**

**CA WELLS    5868**

Seq:	5868	Prim sta c:	05S/03E-18C01 S
Frds no:	3310019024	County:	33
District:	14	User id:	WAT
System no:	3310019	Water type:	G
Source nam:	STRATTON WELL 23 - INACTIVE	Station ty:	WELL/AMBNT/MUN/INTAKE
Latitude:	334500.0	Longitude:	1164200.0
Precision:	2	Status:	IR
Comment 1:	Not Reported	Comment 2:	Not Reported
Comment 3:	Not Reported	Comment 4:	Not Reported
Comment 5:	Not Reported	Comment 6:	Not Reported
Comment 7:	Not Reported		

System no:	3310019	System nam:	Idyllwild Wd
Hqname:	Not Reported	Address:	PO BOX 397
City:	IDYLLWILD	State:	CA
Zip:	92349	Zip ext:	Not Reported
Pop serv:	2600	Connection:	1548
Area serve:	IDYLLWILD		

Sample date:	24-JUL-17	Finding:	150.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dir:	0.		

Sample date:	02-FEB-17	Finding:	0.72
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dir:	0.4		

Sample date:	21-JUL-16	Finding:	89.
Chemical:	ALKALINITY (TOTAL) AS CaCO3	Report units:	MG/L
Dir:	0.		

Sample date:	21-JUL-16	Finding:	0.3
Chemical:	URANIUM MDA95	Report units:	PCI/L
Dir:	0.		

Sample date:	21-JUL-16	Finding:	0.887
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dir:	0.		

Sample date:	21-JUL-16	Finding:	1.21
Chemical:	URANIUM COUNTING ERROR	Report units:	PCI/L
Dir:	0.		

Sample date:	21-JUL-16	Finding:	2.8
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dir:	1.		

Sample date:	21-JUL-16	Finding:	1.4
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dir:	0.		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample date:	21-JUL-16	Finding:	4.93
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dir:	3.		
Sample date:	21-JUL-16	Finding:	140.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dir:	0.		
Sample date:	21-JUL-16	Finding:	25.
Chemical:	BARIUM	Report units:	UG/L
Dir:	100.		
Sample date:	21-JUL-16	Finding:	2.
Chemical:	SULFATE	Report units:	MG/L
Dir:	0.5		
Sample date:	21-JUL-16	Finding:	7.5
Chemical:	CHLORIDE	Report units:	MG/L
Dir:	0.		
Sample date:	21-JUL-16	Finding:	1.5
Chemical:	POTASSIUM	Report units:	MG/L
Dir:	0.		
Sample date:	21-JUL-16	Finding:	21.
Chemical:	SODIUM	Report units:	MG/L
Dir:	0.		
Sample date:	21-JUL-16	Finding:	2.3
Chemical:	MAGNESIUM	Report units:	MG/L
Dir:	0.		
Sample date:	21-JUL-16	Finding:	20.
Chemical:	CALCIUM	Report units:	MG/L
Dir:	0.		
Sample date:	21-JUL-16	Finding:	59.
Chemical:	HARDNESS (TOTAL) AS CaCO <sub>3</sub>	Report units:	MG/L
Dir:	0.		
Sample date:	21-JUL-16	Finding:	0.63
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dir:	0.4		
Sample date:	21-JUL-16	Finding:	230.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dir:	0.		
Sample date:	21-JUL-16	Finding:	7.3
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dir:	0.		
Sample date:	21-JUL-16	Finding:	110.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dir:	0.		
Sample date:	13-AUG-15	Finding:	3.3
Chemical:	NITRATE (AS NO <sub>3</sub> )	Report units:	MG/L
Dir:	2.		
Sample date:	17-JUL-14	Finding:	2.8
Chemical:	NITRATE (AS NO <sub>3</sub> )	Report units:	MG/L

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Dir:	2.		
Sample date:	30-JAN-13	Finding:	2.5
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dir:	2.		
Sample date:	30-JAN-13	Finding:	160.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dir:	0.		
Sample date:	30-JAN-13	Finding:	23.
Chemical:	MANGANESE	Report units:	UG/L
Dir:	20.		
Sample date:	30-JAN-13	Finding:	0.2
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dir:	0.1		
Sample date:	30-JAN-13	Finding:	1.
Chemical:	SULFATE	Report units:	MG/L
Dir:	0.5		
Sample date:	30-JAN-13	Finding:	3.5
Chemical:	CHLORIDE	Report units:	MG/L
Dir:	0.		
Sample date:	30-JAN-13	Finding:	1.8
Chemical:	POTASSIUM	Report units:	MG/L
Dir:	0.		
Sample date:	30-JAN-13	Finding:	20.
Chemical:	SODIUM	Report units:	MG/L
Dir:	0.		
Sample date:	30-JAN-13	Finding:	1.9
Chemical:	MAGNESIUM	Report units:	MG/L
Dir:	0.		
Sample date:	30-JAN-13	Finding:	16.
Chemical:	CALCIUM	Report units:	MG/L
Dir:	0.		
Sample date:	30-JAN-13	Finding:	47.
Chemical:	HARDNESS (TOTAL) AS CaCO3	Report units:	MG/L
Dir:	0.		
Sample date:	30-JAN-13	Finding:	95.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dir:	0.		
Sample date:	30-JAN-13	Finding:	78.
Chemical:	ALKALINITY (TOTAL) AS CaCO3	Report units:	MG/L
Dir:	0.		
Sample date:	30-JAN-13	Finding:	160.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dir:	0.		
Sample date:	30-JAN-13	Finding:	7.
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dir:	0.		

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
 Direction  
 Distance  
 Elevation

Database      EDR ID Number

**C17**  
**East**  
**1/2 - 1 Mile**  
**Lower**

**CA WELLS      5861**

Seq:	5861	Prim sta c:	05S/03E-07A03 S
Frds no:	3310019004	County:	33
District:	14	User id:	WAT
System no:	3310019	Water type:	G
Source nam:	FERN VALLEY 01A - INACTIVE	Station ty:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Latitude:	334500.0	Longitude:	1164200.0
Precision:	8	Status:	IR
Comment 1:	Not Reported	Comment 2:	Not Reported
Comment 3:	Not Reported	Comment 4:	Not Reported
Comment 5:	Not Reported	Comment 6:	Not Reported
Comment 7:	Not Reported		

System no:	3310019	System nam:	Idyllwild Wd
Hqname:	Not Reported	Address:	PO BOX 397
City:	IDYLLWILD	State:	CA
Zip:	92349	Zip ext:	Not Reported
Pop serv:	2600	Connection:	1548
Area serve:	IDYLLWILD		

Sample date:	21-FEB-18	Finding:	31.8
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dir:	3.		

Sample date:	21-FEB-18	Finding:	0.883
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dir:	0.		

Sample date:	21-FEB-18	Finding:	22.7
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dir:	1.		

Sample date:	21-FEB-18	Finding:	0.342
Chemical:	URANIUM MDA95	Report units:	PCI/L
Dir:	0.		

Sample date:	21-FEB-18	Finding:	3.16
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dir:	0.		

Sample date:	21-FEB-18	Finding:	2.71
Chemical:	URANIUM COUNTING ERROR	Report units:	PCI/L
Dir:	0.		

Sample date:	16-OCT-17	Finding:	0.47
Chemical:	URANIUM MDA95	Report units:	PCI/L
Dir:	0.		

Sample date:	16-OCT-17	Finding:	2.63
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dir:	0.		

Sample date:	16-OCT-17	Finding:	13.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dir:	1.		



## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample date:	16-OCT-17	Finding:	2.31
Chemical:	URANIUM COUNTING ERROR	Report units:	PCI/L
Dir:	0.		
Sample date:	16-OCT-17	Finding:	0.835
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dir:	0.		
Sample date:	30-AUG-17	Finding:	3.28
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dir:	0.		
Sample date:	30-AUG-17	Finding:	21.5
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dir:	1.		
Sample date:	30-AUG-17	Finding:	3.47
Chemical:	URANIUM COUNTING ERROR	Report units:	PCI/L
Dir:	0.		
Sample date:	30-AUG-17	Finding:	0.848
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dir:	0.		
Sample date:	30-AUG-17	Finding:	0.47
Chemical:	URANIUM MDA95	Report units:	PCI/L
Dir:	0.		
Sample date:	24-JUL-17	Finding:	93.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dir:	0.		
Sample date:	13-JUL-17	Finding:	94.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dir:	0.		
Sample date:	18-AUG-16	Finding:	0.42
Chemical:	URANIUM COUNTING ERROR	Report units:	PCI/L
Dir:	0.		
Sample date:	18-AUG-16	Finding:	1.26
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dir:	0.		
Sample date:	18-AUG-16	Finding:	0.3
Chemical:	URANIUM MDA95	Report units:	PCI/L
Dir:	0.		
Sample date:	18-AUG-16	Finding:	0.897
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dir:	0.		
Sample date:	09-JUN-16	Finding:	0.3
Chemical:	URANIUM MDA95	Report units:	PCI/L
Dir:	0.		
Sample date:	09-JUN-16	Finding:	1.25
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dir:	0.		
Sample date:	09-JUN-16	Finding:	0.755
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Dir:	0.		
Sample date:	09-JUN-16	Finding:	0.558
Chemical:	URANIUM COUNTING ERROR	Report units:	PCI/L
Dir:	0.		
Sample date:	10-FEB-16	Finding:	1.26
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dir:	0.		
Sample date:	10-FEB-16	Finding:	0.494
Chemical:	URANIUM COUNTING ERROR	Report units:	PCI/L
Dir:	0.		
Sample date:	10-FEB-16	Finding:	1.2
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dir:	0.		
Sample date:	10-FEB-16	Finding:	0.3
Chemical:	URANIUM MDA95	Report units:	PCI/L
Dir:	0.		
Sample date:	16-JUL-15	Finding:	0.902
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dir:	0.		
Sample date:	16-JUL-15	Finding:	0.446
Chemical:	URANIUM COUNTING ERROR	Report units:	PCI/L
Dir:	0.		
Sample date:	16-JUL-15	Finding:	1.13
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dir:	0.		
Sample date:	16-JUL-15	Finding:	0.3
Chemical:	URANIUM MDA95	Report units:	PCI/L
Dir:	0.		
Sample date:	18-DEC-14	Finding:	9.47
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dir:	3.		
Sample date:	18-DEC-14	Finding:	1.86
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dir:	0.		
Sample date:	18-DEC-14	Finding:	11.7
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dir:	1.		
Sample date:	18-DEC-14	Finding:	2.31
Chemical:	URANIUM COUNTING ERROR	Report units:	PCI/L
Dir:	0.		
Sample date:	18-DEC-14	Finding:	0.801
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dir:	0.		
Sample date:	18-DEC-14	Finding:	0.3
Chemical:	URANIUM MDA95	Report units:	PCI/L
Dir:	0.		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample date:	18-SEP-14	Finding:	0.796
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dir:	0.		
Sample date:	18-SEP-14	Finding:	2.2
Chemical:	URANIUM COUNTING ERROR	Report units:	PCI/L
Dir:	0.		
Sample date:	18-SEP-14	Finding:	11.6
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dir:	1.		
Sample date:	18-SEP-14	Finding:	1.81
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dir:	0.		
Sample date:	18-SEP-14	Finding:	9.93
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dir:	3.		
Sample date:	18-SEP-14	Finding:	0.3
Chemical:	URANIUM MDA95	Report units:	PCI/L
Dir:	0.		
Sample date:	23-JUL-14	Finding:	8.84
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dir:	3.		
Sample date:	23-JUL-14	Finding:	1.82
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dir:	0.		
Sample date:	23-JUL-14	Finding:	8.15
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dir:	1.		
Sample date:	23-JUL-14	Finding:	1.71
Chemical:	URANIUM COUNTING ERROR	Report units:	PCI/L
Dir:	0.		
Sample date:	23-JUL-14	Finding:	0.824
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dir:	0.		
Sample date:	23-JUL-14	Finding:	0.3
Chemical:	URANIUM MDA95	Report units:	PCI/L
Dir:	0.		
Sample date:	19-JUN-14	Finding:	0.899
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dir:	0.		
Sample date:	19-JUN-14	Finding:	1.27
Chemical:	URANIUM COUNTING ERROR	Report units:	PCI/L
Dir:	0.		
Sample date:	19-JUN-14	Finding:	5.26
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dir:	1.		
Sample date:	19-JUN-14	Finding:	1.53
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Dir:	0.		
Sample date:	19-JUN-14	Finding:	7.63
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dir:	3.		
Sample date:	19-JUN-14	Finding:	0.3
Chemical:	URANIUM MDA95	Report units:	PCI/L
Dir:	0.		
Sample date:	27-MAR-14	Finding:	2.34
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dir:	0.		
Sample date:	27-MAR-14	Finding:	8.01
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dir:	1.		
Sample date:	27-MAR-14	Finding:	1.62
Chemical:	URANIUM COUNTING ERROR	Report units:	PCI/L
Dir:	0.		
Sample date:	27-MAR-14	Finding:	0.887
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dir:	0.		
Sample date:	27-MAR-14	Finding:	0.3
Chemical:	URANIUM MDA95	Report units:	PCI/L
Dir:	0.		
Sample date:	19-DEC-13	Finding:	2.49
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dir:	0.		
Sample date:	19-DEC-13	Finding:	11.7
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dir:	1.		
Sample date:	19-DEC-13	Finding:	1.96
Chemical:	URANIUM COUNTING ERROR	Report units:	PCI/L
Dir:	0.		
Sample date:	19-DEC-13	Finding:	0.884
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dir:	0.		
Sample date:	19-DEC-13	Finding:	0.3
Chemical:	URANIUM MDA95	Report units:	PCI/L
Dir:	0.		
Sample date:	25-JUL-13	Finding:	0.678
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dir:	0.		
Sample date:	25-JUL-13	Finding:	2.11
Chemical:	URANIUM COUNTING ERROR	Report units:	PCI/L
Dir:	0.		
Sample date:	25-JUL-13	Finding:	10.8
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dir:	1.		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample date:	25-JUL-13	Finding:	1.76
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dir:	0.		
Sample date:	25-JUL-13	Finding:	0.363
Chemical:	URANIUM MDA95	Report units:	PCI/L
Dir:	0.		
Sample date:	24-APR-13	Finding:	1.8
Chemical:	URANIUM COUNTING ERROR	Report units:	PCI/L
Dir:	0.		
Sample date:	24-APR-13	Finding:	13.2
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dir:	1.		
Sample date:	24-APR-13	Finding:	2.21
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dir:	0.		
Sample date:	30-JAN-13	Finding:	2.25
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dir:	0.		
Sample date:	30-JAN-13	Finding:	14.5
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dir:	1.		
Sample date:	30-JAN-13	Finding:	1.45
Chemical:	URANIUM COUNTING ERROR	Report units:	PCI/L
Dir:	0.		
Sample date:	10-OCT-12	Finding:	14.4
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dir:	1.		
Sample date:	10-OCT-12	Finding:	2.26
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dir:	0.		
Sample date:	10-OCT-12	Finding:	1.47
Chemical:	URANIUM COUNTING ERROR	Report units:	PCI/L
Dir:	0.		
Sample date:	25-JUL-12	Finding:	2.23
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dir:	0.		
Sample date:	25-JUL-12	Finding:	15.5
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dir:	1.		
Sample date:	25-JUL-12	Finding:	1.52
Chemical:	URANIUM COUNTING ERROR	Report units:	PCI/L
Dir:	0.		
Sample date:	17-MAY-12	Finding:	2.5
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dir:	2.		
Sample date:	25-APR-12	Finding:	2.34
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Dir:	0.	Finding:	16.8
Sample date:	25-APR-12	Report units:	PCI/L
Chemical:	URANIUM (PCI/L)		
Dir:	1.		
Sample date:	25-APR-12	Finding:	1.6
Chemical:	URANIUM COUNTING ERROR	Report units:	PCI/L
Dir:	0.		
Sample date:	19-JAN-12	Finding:	2.47
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dir:	0.		
Sample date:	19-JAN-12	Finding:	18.
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dir:	1.		
Sample date:	19-JAN-12	Finding:	1.64
Chemical:	URANIUM COUNTING ERROR	Report units:	PCI/L
Dir:	0.		

**C18**  
**East**  
**1/2 - 1 Mile**  
**Lower**

**CA WELLS 5859**

Seq:	5859	Prim sta c:	05S/03E-07A01 S
Frds no:	3310019005	County:	33
District:	14	User id:	WAT
System no:	3310019	Water type:	G
Source nam:	FERN VALLEY 02	Station ty:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Latitude:	334500.0	Longitude:	1164200.0
Precision:	8	Status:	AR
Comment 1:	Not Reported	Comment 2:	Not Reported
Comment 3:	Not Reported	Comment 4:	Not Reported
Comment 5:	Not Reported	Comment 6:	Not Reported
Comment 7:	Not Reported		
System no:	3310019	System nam:	Idyllwild Wd
Hqname:	Not Reported	Address:	PO BOX 397
City:	IDYLLWILD	State:	CA
Zip:	92349	Zip ext:	Not Reported
Pop serv:	2600	Connection:	1548
Area serve:	IDYLLWILD		
Sample date:	24-JUL-17	Finding:	130.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dir:	0.		
Sample date:	23-JUN-16	Finding:	1.8
Chemical:	POTASSIUM	Report units:	MG/L
Dir:	0.		
Sample date:	23-JUN-16	Finding:	15.
Chemical:	SODIUM	Report units:	MG/L
Dir:	0.		
Sample date:	23-JUN-16	Finding:	20.
Chemical:	CALCIUM	Report units:	MG/L
Dir:	0.		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample date:	23-JUN-16	Finding:	60.
Chemical:	HARDNESS (TOTAL) AS CaCO <sub>3</sub>	Report units:	MG/L
Dir:	0.		
Sample date:	23-JUN-16	Finding:	100.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dir:	0.		
Sample date:	23-JUN-16	Finding:	82.
Chemical:	ALKALINITY (TOTAL) AS CaCO <sub>3</sub>	Report units:	MG/L
Dir:	0.		
Sample date:	23-JUN-16	Finding:	7.
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dir:	0.		
Sample date:	23-JUN-16	Finding:	190.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dir:	0.		
Sample date:	23-JUN-16	Finding:	4.3
Chemical:	CHLORIDE	Report units:	MG/L
Dir:	0.		
Sample date:	23-JUN-16	Finding:	1.3
Chemical:	SULFATE	Report units:	MG/L
Dir:	0.5		
Sample date:	23-JUN-16	Finding:	220.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dir:	0.		
Sample date:	23-JUN-16	Finding:	2.5
Chemical:	MAGNESIUM	Report units:	MG/L
Dir:	0.		
Sample date:	19-SEP-13	Finding:	0.52
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dir:	0.1		
Sample date:	19-SEP-13	Finding:	78.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dir:	0.		
Sample date:	19-SEP-13	Finding:	210.
Chemical:	IRON	Report units:	UG/L
Dir:	100.		
Sample date:	19-SEP-13	Finding:	0.9
Chemical:	SULFATE	Report units:	MG/L
Dir:	0.5		
Sample date:	19-SEP-13	Finding:	4.1
Chemical:	CHLORIDE	Report units:	MG/L
Dir:	0.		
Sample date:	19-SEP-13	Finding:	1.4
Chemical:	POTASSIUM	Report units:	MG/L
Dir:	0.		
Sample date:	19-SEP-13	Finding:	13.
Chemical:	SODIUM	Report units:	MG/L

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Dir:	0.	Finding:	2.2
Sample date:	19-SEP-13	Report units:	MG/L
Chemical:	MAGNESIUM		
Dir:	0.		
Sample date:	19-SEP-13	Finding:	13.
Chemical:	CALCIUM	Report units:	MG/L
Dir:	0.		
Sample date:	19-SEP-13	Finding:	42.
Chemical:	HARDNESS (TOTAL) AS CaCO3	Report units:	MG/L
Dir:	0.		
Sample date:	19-SEP-13	Finding:	80.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dir:	0.		
Sample date:	19-SEP-13	Finding:	66.
Chemical:	ALKALINITY (TOTAL) AS CaCO3	Report units:	MG/L
Dir:	0.		
Sample date:	19-SEP-13	Finding:	150.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dir:	0.		
Sample date:	19-SEP-13	Finding:	8.
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dir:	0.		

**C19  
East  
1/2 - 1 Mile  
Lower**

**CA WELLS    5860**

Seq:	5860	Prim sta c:	05S/03E-07A02 S
Frds no:	3310019003	County:	33
District:	14	User id:	WAT
System no:	3310019	Water type:	G
Source nam:	FERN VALLEY 01 - DESTROYED	Station ty:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Latitude:	334500.0	Longitude:	1164200.0
Precision:	8	Status:	DS
Comment 1:	Not Reported	Comment 2:	Not Reported
Comment 3:	Not Reported	Comment 4:	Not Reported
Comment 5:	Not Reported	Comment 6:	Not Reported
Comment 7:	Not Reported		
System no:	3310019	System nam:	Idyllwild Wd
Hqname:	Not Reported	Address:	PO BOX 397
City:	IDYLLWILD	State:	CA
Zip:	92349	Zip ext:	Not Reported
Pop serv:	2600	Connection:	1548
Area serve:	IDYLLWILD		



# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database      EDR ID Number

**20**  
**West**  
**1/2 - 1 Mile**  
**Higher**

**CA WELLS      5843**

Seq:	5843	Prim sta c:	05S/02E-12K01 S
Frds no:	3310030015	County:	33
District:	14	User id:	WAT
System no:	3310030	Water type:	G
Source nam:	WELL 17	Station ty:	WELL/AMBNT/MUN/INTAKE
Latitude:	334459.0	Longitude:	1164334.0
Precision:	2	Status:	AR
Comment 1:	Not Reported	Comment 2:	Not Reported
Comment 3:	Not Reported	Comment 4:	Not Reported
Comment 5:	Not Reported	Comment 6:	Not Reported
Comment 7:	Not Reported		
System no:	3310030	System nam:	Pine Cove Water District
Hqname:	Not Reported	Address:	P.O. BOX 3396
City:	IDYLLWILD	State:	CA
Zip:	92549	Zip ext:	Not Reported
Pop serv:	3000	Connection:	1020
Area serve:	PINE COVE		

**21**  
**NW**  
**1/2 - 1 Mile**  
**Higher**

**CA WELLS      23621**

Seq:	23621	Prim sta c:	N33/019-FOSTERL
Frds no:	3310019006	County:	33
District:	14	User id:	WAT
System no:	3310019	Water type:	G
Source nam:	FOSTER LAKE - INACTIVE	Station ty:	WELL/AMBNT/MUN/INTAKE
Latitude:	334527.0	Longitude:	1164328.0
Precision:	3	Status:	IR
Comment 1:	Not Reported	Comment 2:	Not Reported
Comment 3:	Not Reported	Comment 4:	Not Reported
Comment 5:	Not Reported	Comment 6:	Not Reported
Comment 7:	Not Reported		
System no:	3310019	System nam:	Idyllwild Wd
Hqname:	Not Reported	Address:	PO BOX 397
City:	IDYLLWILD	State:	CA
Zip:	92349	Zip ext:	Not Reported
Pop serv:	2600	Connection:	1548
Area serve:	IDYLLWILD		

**22**  
**West**  
**1/2 - 1 Mile**  
**Lower**

**CA WELLS      5844**

Seq:	5844	Prim sta c:	05S/02E-12L01 S
Frds no:	3301063001	County:	33
District:	63	User id:	33C
System no:	3301063	Water type:	G
Source nam:	WELL 01	Station ty:	WELL/AMBNT/MUN/INTAKE

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Latitude:	334500.0	Longitude:	1164345.0
Precision:	4	Status:	AR
Comment 1:	24641 HWY 74 IDYLLWILD	Comment 2:	Not Reported
Comment 3:	Not Reported	Comment 4:	Not Reported
Comment 5:	Not Reported	Comment 6:	Not Reported
Comment 7:	Not Reported		
System no:	3301063	System nam:	Buckhorn Camp Inc.
Hqname:	Not Reported	Address:	Not Reported
City:	Not Reported	State:	Not Reported
Zip:	Not Reported	Zip ext:	Not Reported
Pop serv:	0	Connection:	0
Area serve:	Not Reported		
Sample date:	28-DEC-17	Finding:	2.1
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dir:	0.4		
Sample date:	21-FEB-13	Finding:	8.1
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dir:	2.		

**23  
WNW  
1/2 - 1 Mile  
Higher**

**CA WELLS    5835**

Seq:	5835	Prim sta c:	05S/02E-12B08 S
Frds no:	3310019021	County:	33
District:	14	User id:	WAT
System no:	3310019	Water type:	G
Source nam:	HORIZONTAL 01	Station ty:	WELL/AMBNT
Latitude:	334523.0	Longitude:	1164337.0
Precision:	2	Status:	AR
Comment 1:	Not Reported	Comment 2:	Not Reported
Comment 3:	Not Reported	Comment 4:	Not Reported
Comment 5:	Not Reported	Comment 6:	Not Reported
Comment 7:	Not Reported		
System no:	3310019	System nam:	Idyllwild Wd
Hqname:	Not Reported	Address:	PO BOX 397
City:	IDYLLWILD	State:	CA
Zip:	92349	Zip ext:	Not Reported
Pop serv:	2600	Connection:	1548
Area serve:	IDYLLWILD		
Sample date:	12-JUL-17	Finding:	100.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dir:	0.		
Sample date:	25-AUG-16	Finding:	93.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dir:	0.		
Sample date:	23-SEP-15	Finding:	100.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dir:	0.		
Sample date:	23-SEP-15	Finding:	0.77
Chemical:	SULFATE	Report units:	MG/L
Dir:	0.5		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample date:	23-SEP-15	Finding:	400.
Chemical:	IRON	Report units:	UG/L
Dir:	100.		
Sample date:	23-SEP-15	Finding:	72.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dir:	0.		
Sample date:	23-SEP-15	Finding:	3.4
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dir:	0.1		
Sample date:	23-SEP-15	Finding:	61.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dir:	0.		
Sample date:	23-SEP-15	Finding:	28.
Chemical:	HARDNESS (TOTAL) AS CaCO <sub>3</sub>	Report units:	MG/L
Dir:	0.		
Sample date:	23-SEP-15	Finding:	9.6
Chemical:	CALCIUM	Report units:	MG/L
Dir:	0.		
Sample date:	23-SEP-15	Finding:	10.
Chemical:	SODIUM	Report units:	MG/L
Dir:	0.		
Sample date:	23-SEP-15	Finding:	1.7
Chemical:	POTASSIUM	Report units:	MG/L
Dir:	0.		
Sample date:	23-SEP-15	Finding:	1.6
Chemical:	CHLORIDE	Report units:	MG/L
Dir:	0.		
Sample date:	23-SEP-15	Finding:	50.
Chemical:	ALKALINITY (TOTAL) AS CaCO <sub>3</sub>	Report units:	MG/L
Dir:	0.		
Sample date:	23-SEP-15	Finding:	7.2
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dir:	0.		
Sample date:	16-APR-15	Finding:	1.17
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dir:	0.		
Sample date:	16-APR-15	Finding:	0.936
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dir:	0.		
Sample date:	16-APR-15	Finding:	0.87
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dir:	0.1		
Sample date:	16-APR-15	Finding:	89.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dir:	0.		
Sample date:	16-APR-15	Finding:	80.
Chemical:	ZINC	Report units:	UG/L

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Dir:	50.		
Sample date:	16-APR-15	Finding:	0.76
Chemical:	SULFATE	Report units:	MG/L
Dir:	0.5		
Sample date:	16-APR-15	Finding:	2.
Chemical:	CHLORIDE	Report units:	MG/L
Dir:	0.		
Sample date:	16-APR-15	Finding:	1.7
Chemical:	POTASSIUM	Report units:	MG/L
Dir:	0.		
Sample date:	16-APR-15	Finding:	9.7
Chemical:	SODIUM	Report units:	MG/L
Dir:	0.		
Sample date:	16-APR-15	Finding:	9.5
Chemical:	CALCIUM	Report units:	MG/L
Dir:	0.		
Sample date:	16-APR-15	Finding:	27.
Chemical:	HARDNESS (TOTAL) AS CaCO <sub>3</sub>	Report units:	MG/L
Dir:	0.		
Sample date:	16-APR-15	Finding:	56.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dir:	0.		
Sample date:	16-APR-15	Finding:	46.
Chemical:	ALKALINITY (TOTAL) AS CaCO <sub>3</sub>	Report units:	MG/L
Dir:	0.		
Sample date:	16-APR-15	Finding:	6.9
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dir:	0.		
Sample date:	16-APR-15	Finding:	100.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dir:	0.		
Sample date:	12-DEC-12	Finding:	0.9
Chemical:	SULFATE	Report units:	MG/L
Dir:	0.5		
Sample date:	12-DEC-12	Finding:	1.8
Chemical:	CHLORIDE	Report units:	MG/L
Dir:	0.		
Sample date:	12-DEC-12	Finding:	1.8
Chemical:	POTASSIUM	Report units:	MG/L
Dir:	0.		
Sample date:	12-DEC-12	Finding:	10.
Chemical:	SODIUM	Report units:	MG/L
Dir:	0.		
Sample date:	12-DEC-12	Finding:	9.1
Chemical:	CALCIUM	Report units:	MG/L
Dir:	0.		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample date:	12-DEC-12	Finding:	92.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dir:	0.		
Sample date:	12-DEC-12	Finding:	52.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dir:	0.		
Sample date:	12-DEC-12	Finding:	43.
Chemical:	ALKALINITY (TOTAL) AS CaCO <sub>3</sub>	Report units:	MG/L
Dir:	0.		
Sample date:	12-DEC-12	Finding:	6.4
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dir:	0.		
Sample date:	12-DEC-12	Finding:	98.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dir:	0.		
Sample date:	12-DEC-12	Finding:	27.
Chemical:	HARDNESS (TOTAL) AS CaCO <sub>3</sub>	Report units:	MG/L
Dir:	0.		

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS RADON

## AREA RADON INFORMATION

State Database: CA Radon

### Radon Test Results

Zipcode	Num Tests	> 4 pCi/L
92549	9	2

Federal EPA Radon Zone for RIVERSIDE County: 2

- Note: Zone 1 indoor average level > 4 pCi/L.  
 : Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.  
 : Zone 3 indoor average level < 2 pCi/L.

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### Federal Area Radon Information for RIVERSIDE COUNTY, CA

Number of sites tested: 12

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	0.117 pCi/L	100%	0%	0%
Living Area - 2nd Floor	0.450 pCi/L	100%	0%	0%
Basement	1.700 pCi/L	100%	0%	0%

# PHYSICAL SETTING SOURCE RECORDS SEARCHED

## TOPOGRAPHIC INFORMATION

### USGS 7.5' Digital Elevation Model (DEM)

Source: United States Geologic Survey

EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

### Current USGS 7.5 Minute Topographic Map

Source: U.S. Geological Survey

## HYDROLOGIC INFORMATION

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

Source: FEMA

Telephone: 877-336-2627

Date of Government Version: 2003, 2015

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

### State Wetlands Data: Wetland Inventory

Source: Department of Fish and Wildlife

Telephone: 916-445-0411

## HYDROGEOLOGIC INFORMATION

### AQUIFLOW<sup>R</sup> Information System

Source: EDR proprietary database of groundwater flow information

EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

## GEOLOGIC INFORMATION

### Geologic Age and Rock Stratigraphic Unit

Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

### STATSGO: State Soil Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)

The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

### SSURGO: Soil Survey Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)

Telephone: 800-672-5559

SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Service, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

# PHYSICAL SETTING SOURCE RECORDS SEARCHED

## LOCAL / REGIONAL WATER AGENCY RECORDS

### FEDERAL WATER WELLS

#### PWS: Public Water Systems

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

#### PWS ENF: Public Water Systems Violation and Enforcement Data

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

#### USGS Water Wells: USGS National Water Inventory System (NWIS)

This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

### STATE RECORDS

#### Water Well Database

Source: Department of Water Resources

Telephone: 916-651-9648

#### California Drinking Water Quality Database

Source: Department of Public Health

Telephone: 916-324-2319

The database includes all drinking water compliance and special studies monitoring for the state of California since 1984. It consists of over 3,200,000 individual analyses along with well and water system information.

## OTHER STATE DATABASE INFORMATION

#### California Oil and Gas Well Locations

Source: Department of Conservation

Telephone: 916-323-1779

Oil and Gas well locations in the state.

#### California Earthquake Fault Lines

Source: California Division of Mines and Geology

The fault lines displayed on EDR's Topographic map are digitized quaternary fault lines prepared in 1975 by the United State Geological Survey. Additional information (also from 1975) regarding activity at specific fault lines comes from California's Preliminary Fault Activity Map prepared by the California Division of Mines and Geology.

### RADON

#### State Database: CA Radon

Source: Department of Public Health

Telephone: 916-210-8558

Radon Database for California

#### Area Radon Information

Source: USGS

Telephone: 703-356-4020

The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.



## PHYSICAL SETTING SOURCE RECORDS SEARCHED

### EPA Radon Zones

Source: EPA

Telephone: 703-356-4020

Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

### OTHER

Airport Landing Facilities: Private and public use landing facilities

Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater

Source: Department of Commerce, National Oceanic and Atmospheric Administration

California Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary fault lines, prepared in 1975 by the United State Geological Survey. Additional information (also from 1975) regarding activity at specific fault lines comes from California's Preliminary Fault Activity Map prepared by the California Division of Mines and Geology.

### STREET AND ADDRESS INFORMATION

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## **APPENDIX D: QUALIFICATIONS/INSURANCE**

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## Education

Bachelor of Science, Environmental Sciences, University of California, Riverside, CA

## Registrations

California Certified Asbestos Consultant (CAC)

California Certified Lead Inspector/Risk Assessor (CLIA)

## Highlights

Over 15 Years of Environmental Due Diligence and Industrial Hygiene Experience

Project Management

Phase I Environmental Site Assessments

Transaction Screen Assessments

Asbestos Inspections and Abatement

Lead Inspections and Abatement

FCC NEPA Consultation

## Experience Summary

Mr. Ly is a Project Manager for Partner Engineering and Science, Inc. (Partner) for the Environmental Due Diligence Services Group. Mr. Ly also serves as Project Manager, Project Assessor, and Report Reviewer for a variety of Partner's professional practices including Phase I Environmental Site Assessments (ESAs), Environmental Transaction Screens, National Environmental Policy Act (NEPA) Assessments, Asbestos Surveys, and Lead-Based Paint Surveys.

Mr. Ly has extensive experience in the environmental consulting industry since 2003. Mr. Ly specializes in environmental site assessments for financial and telecommunication clients. Mr. Ly has experience in a wide range of residential, commercial, and industrial settings throughout the United States. His experience included on-site visual inspections, public record searches, aerial photograph reviews, various map reviews, onsite interviews, and preparation of technical reports. Mr. Ly has also conducted asbestos-containing materials (ACM) surveys, which include collecting bulk samples, and conducted lead-based paint (LBP) surveys, which include using an x-ray fluorescence (XRF) analyzer and collecting both dust wipe and paint chip samples, and performed oversight of asbestos, lead paint, mold, and hazardous materials abatement.

Mr. Ly has gained his technical experience through the management of numerous projects across the United States for financial and telecommunication clients. Administrative aspects of his experience include report review, personnel training, project scheduling, client management, quality control, regulatory compliance, contract administration, invoicing and overall project management.

## Project Experience

*Phase I ESAs, Multiple Locations, Continental United States.* Mr. Ly completed Phase I ESAs for various financial institutions and telecommunications clients. These assessments were performed to evaluate site conditions and exposure to inherent risks, potential off-site liabilities, environmental control systems, and site remediation costs in order to advise prospective buyers, operators, and owners of potential and existing environmental concerns.

*NEPA Assessments, Multiple Locations, Continental United States.* Mr. Ly completed NEPA assessments for various telecommunication clients to ensure they are in compliance with Federal Communications Commission (FCC) requirements under NEPA, which includes NEPA checklist reports, compliance audits, Section 106/SHPO submissions, tribal consultations, biological assessments. Environmental reviews include analysis of historic properties, wetlands, endangered species habitat, floodplains, and other areas of environmental concern and the possible impacts of telecommunications installations on these sensitive areas.

*Asbestos and Lead-Containing Paint Surveys, Multiple Locations, California.* Mr. Ly completed Asbestos and Lead-Containing Paint Surveys to determine the presence and concentration of asbestos-containing materials and lead-containing paints.

*Asbestos and Lead-Containing Paint Abatement Oversight, Multiple Locations, California.* Mr. Ly completed Asbestos-Containing and Lead-Based/Lead-Containing Paint Abatement by overseeing removal activities in order for the client to facilitate new installations and/or modifications.

### Contact

cly@partneresi.com

## Education

Bachelor of Arts, Environmental Studies, Knox College, Galesburg, IL

## Training

Hazardous Waste Operations and Emergency response (HAZWOPER) 40-hour training

## Highlights

5 years in the environmental consulting industry

Phase I Environmental Site Assessments

Phase II Subsurface Investigations

National Environmental Policy Act

## Experience Summary

Ms. Shule serves as a Project Manager for Partner Engineering and Science, Inc. (Partner) in St. Louis, Missouri. She has experience completing due diligence assessments in accordance with the needs and requirements of varied number of reporting standards, including ASTM standards, EPA's All Appropriate Inquiry (AAI), and customized client formats.

Ms. Shule has five years of experience in the environmental service industry. She has prepared and managed National Environmental Policy Act (NEPA) projects for the telecommunications industry across the United States. Ms. Shule has helped various clients facilitate the Section 106/environmental review process to ensure compliance with Federal Communications Commission (FCC) requirements, including completion of Environmental Assessments (EAs). Ms. Shule also has experience performing quality assurance and control for NEPA reports.

Ms. Shule has completed numerous ESAs for a diverse variety of properties and purposes across the United States. These properties have included communications facilities, industrial facilities, agricultural tracts, commercial properties, retail facilities, and multi-family residential properties.

## Project Experience

*Phase I ESAs, Multiple Locations, Continental United States.* As part of a due diligence team, Ms. Shule was responsible for completing Phase I ESAs at various locations as part of telecommunication lease agreements. As a project manager, Ms. Shule was also responsible for proposal writing, staffing projects, client liaison, reviewing reports, and ensuring timely delivery of Phase I ESAs.

*Phase I ESA, Space Center Portfolio, Missouri.* As part of a 17-site due diligence portfolio, Ms. Shule conducted environmental site assessments on two multi-tenant facilities located in former quarries, each over one million square feet in size. Both properties leased space to industrial and governmental tenants.

*Phase I ESA, Residence Inn, Omaha, Nebraska.* Ms. Shule performed a Phase I ESA at a 13-story hotel which had previously served as a federal government agency building since 1933. She worked closely with Nebraska regulatory agencies to research the site's history and conditional closure of an underground storage tank.

## Elizabeth Shule

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*Telecommunication Towers, Yellowstone National Park, Wyoming.* Ms. Shule managed a portfolio of proposed telecommunication tower sites to be located throughout Yellowstone National Park. She was responsible for staffing projects, reviewing reports and ensuring timely delivery of Phase I ESA reports. Additionally, Ms. Shule was responsible for ensuring NEPA compliance for the sites.

*Federal Communications Commission (FCC) NEPA Compliance, Multiple Locations, Continental United States.* Ms. Shule conducted all aspects of NEPA compliance in accordance with FCC regulations for telecommunication towers from cradle to grave including proposal writing, staffing projects, client and subcontractor liaison, report writing and reviews. Additionally, Ms. Shule has successfully completed EAs to address adverse impacts to historic properties.

*Bulk Small Cell Node Installation at University of Colorado Boulder, Boulder, Colorado.* As a project manager, Ms. Shule was responsible for staffing projects, reviewing reports and ensuring timely delivery of Phase I ESA and NEPA reports associated with the bulk installation of small cell telecommunication nodes throughout the University of Colorado Boulder campus. This included extensive coordination with the Colorado State Historic Preservation Office for nodes proposed within a historic district located on campus.

*Phase II Subsurface Investigations, Multiple Locations, Continental United States.* As part of a due diligence team, Ms. Shule was responsible for proposal writing, staffing projects, client liaison, reviewing reports, and ensuring timely delivery of Phase II Subsurface Investigations associated with telecommunication lease agreements.

### Contact

eshule@partneresi.com

## Education

B.A. Business Administration: Emphasis in Management Information Systems, California State University, Fullerton

## Experience

20 years in the Wireless Telecommunication Industry  
Extensive knowledge of Telecom FCC NEPA due diligence  
Phase I/II Environmental Site Assessments  
Hazmat Services  
Telecom A&E, Site Acquisition Services and Construction

## Experience Summary

Mr. Michael Cunneen has over 20 years of experience in the environmental industry. He has significant experience in due diligence assessments for a variety of property types and the needs and requirements of a varied number of reporting standards, including ASTM standards, EPA's All Appropriate Inquiry (AAI), and customized client formats.

Specifically, Mr. Cunneen has performed Phase I Environmental Site Assessments, Environmental Transaction Screens, Phase II Subsurface Investigations, Lead Based Paint and Asbestos Containing Material surveys (LBP/ACM), Abatement, and has helped clients facilitate the environmental review process to ensure compliance with Federal Communications Commission (FCC) requirements under the National Environmental Policy Act (NEPA). Environmental reviews include analysis of historic properties, wetlands, endangered species habitat, floodplains, and other areas of environmental concern and the possible impacts of telecommunications installations on these sensitive areas. Mr. Cunneen has completed thousands of NEPA assessments for a wide range of properties and for various telecommunications clients throughout the United States.

Mr. Cunneen has conducted environmental due diligence assessments for a wide range of properties throughout the United States. These assessments have been performed to evaluate site conditions, potential off-site liabilities, environmental control systems, and site remediation costs in order to advise prospective buyers, operators, and owners of potential and existing environmental concerns. Mr. Cunneen's site assessment experience includes: agricultural properties, golf courses, automobile fueling and repair facilities, telecommunications sites, shopping centers with dry cleaning facilities, rural and undeveloped land, commercial properties, multifamily properties, and industrial properties. Mr. Cunneen has provided environmental due diligence services to key financial clients.

Additionally, Mr. Cunneen has managed Telecom Site Acquisition, A&E, and Construction projects throughout various U.S markets for Carriers, Tower Developers and Turfing Contractors. Responsibilities also include evaluation of staff; developing new skills and improving existing skills within the staff; scheduling of personnel; maintaining quality control practices consistent with company goals; and participate in development of protocols and practices to serve national clients of the firm.

**Professional Experience**

**Wireless Developer, 5G National Network Deployment Buildout.** Managed a national A&E team that provided Survey, Utility Locates, Traffic Control and Geotech on hundreds of Right-of-Way projects throughout the United States.

**Wireless Carrier, 5G & 4G National Network Deployment Buildout.** Organized and led a team of environmental professionals and NEPA specialists to conduct hundreds of wireless projects in the U.S. Services included Phase I and II Environmental Site Assessments, LBP/ACM surveys, abatement, and FCC NEPA compliance evaluation reports. Mr. Cunneen worked closely with tribal leaders and archaeologists in completing the Section 106 process. His team completed Flood Plain Environmental Assessments, Memorandum of Agreements, Biological Assessments, Focus Surveys and Architectural Historian Evaluations as part of the NEPA Consultation Process.

**Tower Developer, National Network Deployment Buildout.** Directed and completed Phase I and II Environmental Site Assessments, LBP/ACM surveys, abatement, hazardous fuel removal, generator decommissioning, and FCC NEPA compliance evaluation reports on thousands of wireless projects for various markets throughout the U.S including Puerto Rico.

**Wireless Carrier, Los Angeles Network Deployment Buildout.** Mr. Cunneen provided client focus, project management, technical peer review of report work products and opinions for Phase I and II Environmental Site Assessments, LBP/ACM surveys, abatement, Geotechnical and FCC NEPA compliance evaluation reports on over 800 wireless projects for the Carrier's Los Angeles Expansion Market.

**Turfing Contractor, California/ Virginia, Maryland Markets for Small Cell Deployment.** Managed a team of certified Asbestos and Lead Inspectors that conducted LBP/ACM Surveys, and abatement services on multiple commercial properties for Small Cell and Distributed Antenna Systems.

**Wireless Carrier, San Diego, Las Vegas, Portland, Chicago Network Deployment Buildout.** Mr. Cunneen directed and completed Phase I and II Environmental Site Assessments, LBP/ACM surveys, asbestos abatement, and FCC NEPA compliance evaluation reports on over 500 wireless projects for the various markets throughout the U.S.

**Wireless Carrier, 2G-3G Southwestern U.S. Network Deployment Buildout.** Mr. Cunneen provided project management and completed Phase I and II Environmental Site Assessments, LBP/ACM surveys, abatement, Geotechnical, and FCC NEPA compliance evaluation reports on thousands of wireless projects for direct Carrier work and under contract with various developers and Architectural and Engineering firms throughout the Southwestern United States, including sites in California, Nevada and Arizona.

**Association**

California Wireless Association

**Contact**

mcunneen@partneresi.com





**GEODYNE  
ENGINEERING, INC.**

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***Geotechnical & Environmental Consultants***

**Limited Geotechnical Investigation  
Proposed Extended Stay Lodges at:  
25840 Idyllwild Road  
Idyllwild, CA 92549**

**Project No. GD19G508**

**November 11, 2019**



**GEODYNE  
ENGINEERING, INC.**

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***Geotechnical & Environmental Consultants***

November 11, 2019

***WSCS***

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Attention: Mr. Wade Shuey  
Principal - Owner

Subject: **Limited Geotechnical Investigation**  
Proposed Extended Stay Lodges at:  
25840 Idyllwild Road, Idyllwild, Riverside County, CA 92549  
Project No. G□□G□□□

Dear Mr. Shuey:

Per request, Geodyne Engineering, Inc. has performed a limited geotechnical investigation at the subject site. The purpose of our investigation was to evaluate the geotechnical conditions at the site in the areas of proposed construction and to provide geotechnical parameters for design and construction.

Based on our investigation, it is our opinion that the proposed construction is feasible from the geotechnical standpoint provided the recommendations contained herein are incorporated into the project plans and specifications. This report should be reviewed in detail prior to proceeding further with the planned development.

We appreciate and wish to thank you for the opportunity to serve you on this project.

Respectfully submitted,  
**Geodyne Engineering, Inc.**



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Senior Engineer / (RCE C 081696)  
Registration Exp. Date: 03-31-2020



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## **APPENDIX A**

Vicinity Map  
Test Pit Locations Plan  
USGS Topographic Map

## **APPENDIX B**

Key to Classification Terms and Symbols  
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## **APPENDIX C**

Laboratory Tests

## **APPENDIX D**

ATC-127 - Applied Technology Councils/USGS Site Specific Seismic Hazards by Location

## **EXECUTIVE SUMMARY**

The soil conditions at the site of the proposed construction at 25840 Idyllwild Road, Idyllwild, County of Riverside, California, were explored by excavating two test pits up to a depth of 7.0-ft below existing grade. Laboratory tests were performed on selected specimens to evaluate the engineering characteristics of various soil strata encountered in our exploratory test pits. This report presents a description of subsurface conditions encountered at the site, recommended foundation systems, and design and construction criteria influenced by the subsurface conditions. It is based on data obtained from field investigations, laboratory test results and our previous experience with similar sites.

- Foundation support for the proposed construction could be derived by utilizing a shallow conventional continuous or spread foundation system extended below frost zone, embedded within the underlying bedrock or engineered fill compacted to 90%. An ultimate bearing capacity of 6000 psf and an allowable bearing capacity of 2000 psf may be used for foundation bearing on bedrock or compacted fill.
- As an option, foundation support for the proposed construction could be derived by utilizing a friction pile foundation system. A minimum 24 inch diameter piers, embedded a minimum of 5 ft into the underlying bedrock should be considered. Greater embedment may be necessary to resist lateral loads due to wind and seismic forces. An allowable skin friction resistance of 300 psf may be used for the design of friction pile system. The piers should not be spaced more than three diameter on center each way. For piers with closer spacing, a load capacity reduction factor of 0.75 due to pile group effects may be considered.
- In cases where the ground surface slopes away from the foundation, passive resistance will be developed below an imaginary horizontal line that intersects the ground surface. As such, the requirements of 2016 CBC, Figure 1808.7.1 Foundation Clearances from Slopes should be adhered to as deemed appropriate.
- The project plans were not available during this investigation. Therefore, the recommendation of this report should be considered preliminary. Once the design phase proceeds to a more finalized plan, the recommendations within this report should be reviewed by our firm and revised as needed. Grading and earthwork remedial improvement recommendations will be provided based on project grading and structural plans.

Detailed descriptions of subsurface conditions, engineering analysis, and design recommendations are included in this report.

## 1.0 INTRODUCTION

### PURPOSE

The purpose of this Limited Geotechnical Investigation is to provide preliminary geotechnical information to WSCS Design (“Client”) regarding the subject property located in the unincorporated community of Idyllwild, Riverside County, California. Geodyne Engineering, Inc. understands that the Client is considering developing the subject property and requires a Limited Geotechnical Investigation.

The information gathered in this Limited Geotechnical Investigation is intended to provide the Client with an understanding of the physical conditions of site-specific subsurface soils, groundwater, and the regional geologic setting which could affect the cost or design of the proposed development at the property (Vicinity Map, Site Plan – **Appendix A**).

This Limited Geotechnical Investigation has been conducted in general accordance with accepted geotechnical engineering principles and in general conformance with the discussed scope and verbal authorization by the Client.

Geodyne Engineering, Inc. conducted onsite field exploration that was completed on November 5, 2019, that included excavation of four (4) backhoe test pits (designated TP-1 through TP-4) for the proposed development at the subject property. This Limited Geotechnical Investigation has been prepared for the sole use of WSCS Design. Other parties, without the express written consent of Geodyne Engineering, Inc. should not rely upon this Limited Geotechnical Investigation.

## 2.0 PROPOSED CONSTRUCTION/PROJECT DESCRIPTION

Based on information provided by the Client, we understand that development of the rear (northeast) portion of the subject property will consist of three (3) new single story buildings for a total of eleven (11) lodging units for seasonal stay lodging. Each building will contain six, three and two lodging units, respectively. Other proposed improvements include paved parking and drive areas and other related improvements. An existing shed and several trees will be removed prior to constructing the new development.

No detailed grading plans were provided to Geodyne Engineering, Inc. at the time of our preparation of this report; however, grading is anticipated to include cuts and fills of less than 5 feet across the subject property (exclusive of remedial grading). No foundation plans were provided to Geodyne Engineering, Inc. at the time of report preparation; however, foundation loads are assumed to be typical for the type of construction. No other information is known at this time.

### 3.0 SCOPE OF SERVICES

The scope of our services included:

- A review of readily available data pertinent to the subject property, including published and unpublished geologic reports/maps, and soils data for the area (**References**).
- Conducting a geotechnical reconnaissance of the subject property and nearby vicinity.
- Excavation and logging of four (4) exploratory test pits (designated TP-1 through TP-4) by means of a backhoe excavator in readily accessible areas of the subject property to depths ranging from approximately 2.5 feet to 7.5 feet below the existing ground surface (bgs) (**Appendix B**).
- An evaluation of seismicity and geologic hazards to include an evaluation of faulting and liquefaction/seismic induced settlement potential.
- Completion of laboratory testing of representative earth materials encountered onsite to ascertain their pertinent soils engineering properties, including corrosion potential assessment (**Appendix C**).
- The preparation of this report which presents our preliminary findings, conclusions, and recommendations.

The Scope of Services does not include an environmental assessment of the presence or absence of wetlands and/or hazardous or toxic materials in the soil, surface water, groundwater, or air, in the proximity of this site. Any statements in this report or on the boring logs regarding odors, colors or unusual or suspicious items or conditions are strictly for the information of the client.

### 4.0 BACKGROUND

#### Subject Property Description

Based on information provided by Client (WSCS Designs – Site Plans, 2019), we understand that the proposed seasonal lodging development is associated with the address of 25840 Idyllwild Road (State Route 243), approximately 450 feet southeast of Jameson Drive, in the unincorporated community of Idyllwild, Riverside County, California. The subject property can also be identified as (APN) 563250028. Based on our review of online aerial photography (GoogleEarth®, 2018) and our site reconnaissance, the irregularly-shaped subject property is currently partially developed. The subject property covers an area of approximately 1.45-acres and can be divided



into two parcels or sections. The southwestern portion of the subject property covers an area of slightly less than 1-acre and is currently developed with three (3) single floor buildings and paved parking and drive areas comprising an old motel business that has been converted into apartments. The proposed seasonal lodging development is located on the northeastern portion of the subject property covering an area of approximately 0.5-acre, located approximately 200 feet northeast of Idyllwild Road. The subject parcel to be developed has generally bare ground that has been cleared with minor leveling for use as a parking area. This portion of the property also has an existing storage shed and scattered large evergreen trees with sparse forest cover. The surface gradient of the subject property appears to be less than 5:1 (horizontal to vertical). The site is accessible via a driveway from Idyllwild Road and Oakwood Street.

The center of the subject property is approximately situated at 33.747119° degrees North latitude and 116.711249° degrees West longitude (Google Earth®, 2018). The property is bounded by Idyllwild Road (State Route 243) on the west, the Idyllwild Bible Church (54400 Pine Crest Avenue) with residential land and open space forest to the north and east.

### **Topography**

The subject property is located within the Idyllwild, California 7.5 minute Quadrangle (USGS, 2018). The ground surface at the property (within the subject northeast parcel) gently slopes from northeast to southwest and ranges in elevation from roughly 5,490 feet to 5,465 feet above mean sea level (amsl). Surface drainage across the site would be by sheetflow, generally to the southwest. Including the existing apartment development within the subject property, the lowest elevation is in the southwest corner of the overall property along Idyllwild Road at an elevation of approximately 5,430 feet above mean sea level (amsl).

### **4.1 SUBSURFACE SOIL AND GEOLOGIC CONDITIONS**

The subject site is located in the central portion of the Peninsular Ranges Physiographic Province of California. A series of ranges is separated by northwest trending valleys, subparallel to faults branching from the San Andreas Fault. The trend of topography is similar to the Coast Ranges, but the geology is more like the Sierra Nevada, with granitic rock intruding the older metamorphic rocks. The Peninsular Ranges extend into Lower California and are bound on the east by the Colorado Desert. The Los Angeles Basin and the island group (Santa Catalina, Santa Barbara, and the distinctly terraced San Clemente and San Nicolas islands), together with the surrounding continental shelf (cut by deep submarine fault troughs), are included in this province.

Review of the available references (USGS, 1999), indicate that the site is located in an area underlain by Older (Pleistocene, younger than 500,000 years), marine and non-marine terrace

deposits (Qomt2-6sa), above marine wave-cut platform; moderately consolidated sediments. This unit is described as consisting of mostly of silty sand with clay and gravel. These marine and non – marine terrace deposits are underlain by the Capistrano formation. This formation consists mainly of siltstone, claystone and mudstone, typically expansive in nature and slide prone.

A description of the artificial fill and formational soils underlying this site located on a cut/fill lot is presented below from youngest to oldest:

**Artificial Fill:** Our exploratory excavations indicated the presence of artificial fill to the full depth explored (i.e., 6.0 feet). This material was noted to consist of silty sands and contains locally derived bedrock fragment fill. Based on review of available information, the fill is documented and ranges from 3 ft in thickness within the building pad area (lot cap) and increases to 15 ft within the rear slope as stabilized buttress fill.

**Formation:** Formational soils was not encountered in our exploratory excavations. Based on available information, this formation consists mainly of siltstone, claystone and mudstone, typically expansive in nature and slide prone.

## GROUND WATER

Review of the available references (DWR, 2019), indicate that there are not groundwater wells in the general vicinity of the site and in a mile radius circle around the site.

It should also be recognized that minor groundwater seepage problems might occur after development of a site even where none were present before development. These are usually minor phenomena and are often the result of an alteration in drainage patterns and/or an increase in irrigation water. Based on the permeability characteristics of the soil and the anticipated usage and development, it is our opinion that any seepage problems, which may occur, will be minor in extent. It is further our opinion that these problems can be most effectively corrected on an individual basis if and when they occur.

## 5.0 FIELD EXPLORATION AND LABORATORY TESTING

Field work for our Limited Geotechnical Investigation was conducted on November 1 and 5, 2019. Our initial field work on November 1, 2019 at the site consisted of attempting the excavation of hand-dug exploratory test pits at the subject property. Due to difficult hand digging conditions and shallow refusal, field work was terminated and, with the concurrence of the Client, it was decided to use a backhoe at a later date to excavate the test pits. On November 5, 2019, a total of four (4) exploratory test pits were excavated at the subject property. The test pit depths ranged from

approximately 2.5 feet to 7.5 feet below the existing ground surface (bgs) and were logged under the supervision of a Registered Professional Engineer and Certified Engineering Geologist at Geodyne Engineering, Inc. The approximate locations of the test pits are shown in **Appendix A**.

A small CAT, track backhoe excavator was used to excavate the exploratory test pits, designated TP-1 through TP-4. Equipment refusal was encountered within test pit excavations due to the presence of hard, granitic bedrock at depth. The subsurface lithology is recorded on the test pit logs, which are presented in **Appendix B**. The soils were classified in accordance with the Unified Soil Classification System (ASTM, 2015). Representative bulk samples were also collected for appropriate laboratory testing. Attempts were made to retrieve undisturbed ring samples. However, the samples were either disturbed or there was no recovery due to the friable nature of the underlying soil and bedrock.

### 5.1 Laboratory Testing Program

In addition to field exploration, a supplemental laboratory testing program was conducted to determine additional pertinent engineering characteristics of the subsurface materials that are necessary to evaluate the soil parameters. These tests include:

- 1) Moisture Content (ASTM D 2216)
- 2) Grain Size Distribution (ASTM D 422)
- 3) Corrosion Potential CT-417, CT-422, CT-532(643)
- 4) Maximum Density & Optimum Moisture (ASTM D 1557)
- 5) Direct Shear Tests (ASTM D3080 / D3080M)
- 6) Consolidation –Shear Test (ASTM 2435)

### 5.2 Corrosion Potential Screening Assessment

A near surface soil sample was tested to measure pH, soluble sulfate, soluble chloride and resistivity of the soil. The results are presented on Table No. 1.

**Table No.1**

Sample Location/ Depth, (ft)	pH	Soluble Sulfate (PPM)	Soluble Chloride (PPM)	Soil Resistivity (Ohm-cm)
TP-3/3.0'-7.0'	7.1	131	54	31,000

## **Sulfate Content**

A representative near-surface soil sample was tested during our investigation for soluble sulfate content. The result of this test indicates a soluble sulfate content of (0.0131) percent by weight or negligible sulfate exposure. As such, the soils exposed are not expected to pose a potential sulfate reaction with concrete.

## **Resistivity, Chloride and pH**

Soil corrosivity to ferrous metals can be estimated by the soil's pH level, electrical resistivity, and chloride content. In general, soil having a minimum resistivity less than 2,000 ohm-cm is considered corrosive. Soil with a chloride content of 500 ppm or more is considered corrosive to ferrous metals.

As a screening for potentially corrosive soil, a representative soil sample was tested during our investigation to determine soil resistivity, chloride content, and pH level. The soil resistivity measurement of the sample was approximately (31,000) ohm-cm, chloride content of approximately (54) ppm, and the pH level of approximately (7.1). The results indicate that the soil at the site is considered mildly corrosive to ferrous metals. However, a standard corrosion potential protection measure (applying protective wrapping, tape, sealant, paint, protective lubricants etc.) is advisable to be considered in the design phase. It should be noted that Geodyne does not practice corrosion engineering. For any specific design or further assessment, a corrosion specialist should be consulted.

## **Concrete**

Laboratory test indicated that the subject site contains soil sulfate content in the negligible range (i.e., less than 1000 part per million). However for convenience, it is recommended that concrete for all construction at the site utilize a wide and ready, commercially available Type-II Portland cement with a maximum 0.50 water/cement ratio and should comply with all of the requirements of current Code. The minimum compressive strength of concrete shall be 3000 psi at 28 days and maximum slump during placement shall be five inches. The minimum concrete cover should be 1.5-inches. Final selection of the appropriate concrete design should be made by the project structural engineer based on the applicable local laws and ordinances, and desired level of conservatism.

### 5.3 GENERAL SUBSURFACE CONDITIONS

#### Geologic Setting

Regionally, the subject property lies within the Peninsular Ranges Geomorphic Province of southern California. This province consists of a series of ranges separated by northwest trending valleys; sub parallel to branches of the San Andreas Fault (CGS, 2002). The Peninsular Ranges geomorphic province, one of the largest geomorphic units in western North America, extends from the Transverse Ranges geomorphic province and the Los Angeles Basin, south to Baja California. It is bound on the west by the Pacific Ocean, on the south by the Gulf of California and on the east by the Colorado Desert Province. The Peninsular Ranges are essentially a series of northwest-southeast oriented fault blocks (CGS, 2002). Major fault zones and subordinate fault zones found in the Peninsular Ranges Province typically trend in a northwest-southeast direction. Locally, the subject property is located on the southwest flank of the San Jacinto Mountains.

Regional geologic maps of the subject property and vicinity (Dibblee and Minch, 2008) indicate the property is underlain by older surficial sediments mapped as Pleistocene-age alluvial fan gravel (map unit Qof), which is described as weakly indurated and dissected. Map unit Qof was not encountered within our exploratory test pits at the site. However, the subject site is located near a geologic contact with Cretaceous-age plutonic rocks which compose the Peninsular Ranges Batholith. These plutonic rocks were encountered within our test pits and is described as Cretaceous-age quartz diorite or granodiorite (i.e. “granitic”) that is grayish-white in color and massive to slightly gneissoid with minor xenoliths.

#### Subsurface Conditions

The materials encountered in our test pits consisted of undocumented artificial fill and weathered (“decomposed”) granitic bedrock. A brief description of the subsurface conditions is provided in the following section. Detailed descriptions of the subsurface conditions are provided on the test pit logs included in **Appendix B**.

**Artificial Fill** - Artificial fill was encountered in three (3) of our test pits at the ground surface and extended to depths ranging from 2 to 3 feet below the existing ground surface in test pits TP-1, TP-2 and TP-3. Artificial fill was not encountered within test pit TP-4. As encountered, the artificial fill consists of light grayish-brown or brownish-gray, dry to damp, medium dense, fine to coarse grained sand with pebbles and minor silt with tree roots up to 3-inches in diameter at the time of our subsurface exploration. The artificial fill was likely placed in conjunction with the adjacent motel/apartment development during minor site grading and re-leveling into a parking area.

**Decomposed Granite (“DG”)** – Decomposed granite bedrock (appears to be weathered granodiorite) was encountered beneath the existing artificial fill within test pits TP-1, TP-2 and TP-3 and was encountered at the ground-surface in test pit TP-4, and extended to the maximum explored depth of 7.5 feet below the existing ground surface. The decomposed granite materials at the time of our subsurface exploration can be described as tan or light brown to grayish-brown, highly weathered, friable with medium to coarse texture and moderately hard to hard becoming hard and relatively unweathered at approximate depth below 7 feet.

## Groundwater

Static groundwater or seepage was not encountered in any of our exploratory test pits to a depth of 7.5 feet bgs at the time of exploration. Based on the presence of shallow, hard granitic bedrock at the ground surface to very shallow depths of 3 feet, static groundwater is not anticipated beneath the site. It should be noted that variations in groundwater may result from fluctuations in the ground surface topography, subsurface stratification, rainfall, irrigation, and other factors that may not have been evident at the time of our subsurface exploration.

## 6.0 GEOLOGIC HAZARDS

### California Building Code Seismic Design Parameters

Geodyne Engineering, Inc. utilized seismic design criteria provided in the CBC (2016) and ASCE 7-10. Final selection of the appropriate seismic design coefficients should be made by the structural consultant based on the local laws and ordinances, expected building response, and desired level of conservatism. The site coefficients and adjusted maximum considered earthquake spectral response accelerations in accordance with the 2016 California Building Code are presented in **Table 2**.

<b>TABLE 2</b>	
<b>2016 CBC Seismic Parameters and Peak Ground Acceleration</b>	
<b>Parameter</b>	<b>Value</b>
Site Coordinates	Latitude 33.747119° Longitude -116.711249°
Mapped Spectral Acceleration Value at Short Period: <b>S<sub>s</sub></b>	1.5g
Mapped Spectral Acceleration Value at 1-Second Period: <b>S<sub>1</sub></b>	0.6g
Site Classification	B
Short Period Site Coefficient: <b>F<sub>a</sub></b>	1
1-Second Period Site Coefficient: <b>F<sub>v</sub></b>	1
Site-Modified Spectral Acceleration Value: <b>S<sub>M</sub></b>	1.5g

Site-Modified Spectral Acceleration Value: <b>S<sub>M1</sub></b>	0.6g
Design Spectral Response Acceleration at Short Periods: <b>S<sub>Ds</sub></b>	1g
Design Spectral Response Acceleration at 1-Second Period: <b>S<sub>D1</sub></b>	0.4g
Peak Ground Acceleration adjusted for Site Class Effects: <b>PGAM</b>	0.504g

### Faulting and Surface Rupture

The subject property is located within an area of California known to contain a number of active and potentially active faults. There are no known active faults crossing the property (Jennings and Bryant, 2010) and the property is not within a State of California Earthquake Fault Zone (CDMG, 1974). The closest known active fault is the San Jacinto Valley segment of the San Jacinto Fault Zone, located approximately 7.41 miles (11.93 km) southwest of the subject property (USGS, 2008). Therefore, the potential for surface rupture at the property is considered low. Three of the closest faults along with their distance from the property and Maximum Magnitude are shown in **Table 3**.

<b>TABLE 3</b>		
<b>Nearby Active Faults</b>		
<b>Fault</b>	<b>Distance in Miles (Kilometers)<sup>1</sup></b>	<b>Maximum Magnitude<sup>1</sup></b>
San Jacinto SJV+A+CC+B	7.41 (11.93)	7.70
San Jacinto SBV+SJV+A+CC	7.41 (11.93)	7.76
San Jacinto SJV+A	7.41 (11.93)	7.47

1. USGS Online Fault Search (2008)

### Landslides and Slope Stability

The subject property and surrounding areas are generally relatively flat with near-surface or surface exposures of granitic bedrock. As a result, we consider the potential for landslides or slope instabilities to occur at the property to be negligible.

### Liquefaction Potential and Lateral Spreading

Liquefaction occurs when loose, saturated, generally cohesionless fine sands and non-plastic silts are subjected to strong ground shaking. The soils lose shear strength and become liquid; potentially resulting in large total and differential ground surface settlements as well as possible lateral spreading during an earthquake. Seismically induced settlement can occur in response to

liquefaction of saturated loose granular soils, as well as the reorientation of soil particles during strong shaking of loose, unsaturated sands.

Due to the lack of shallow groundwater at the subject site, and the presence of near-surface to surface granitic bedrock, the probability of liquefaction, seismically induced settlement, and lateral spreading at the subject site is considered to be negligible.

### **Tsunamis, Flooding and Seiches**

The subject property is not located within a Tsunami Evacuation Area; therefore, damage due to tsunamis is considered low.

Geodyne reviewed the Federal Emergency Management Agency (FEMA) Flood Insurance Rate Map (FIRM) online database (FEMA, 2019) to determine if the subject property was in a flood zone. According to Panel No. 06065C2155G - effective August 28, 2008, the subject property is located within Flood Zone X. FEMA defines Zone X as an area of minimal flood hazard, usually depicted on FIRMs as outside the 500-year flood plain.

Seiches are periodic oscillations in large bodies of water such as lakes, harbors, bays, or reservoirs. The subject property is not located immediately adjacent to any lakes or confined bodies of water; therefore, the potential for a seiche to affect the site is considered low.

## **7.0 FOUNDATION RECOMMENDATIONS**

### **7.1 Foundation on Expansive Soils**

Expansive soils change in volume with change in moisture content. Shrinking and swelling of the clays can cause heaving and cracking on slab-on-grade and structures founded on shallow foundations. The results of our exploration, laboratory testing and engineering tactile evaluation indicate the soils underlying this site have a Very Low Expansion Potential characteristics. As such, special measures per 2016 California Building Code (CBC) Section 1803.5.3 are not required to mitigate expansive soil. However, we recommend the expansion index to be verified during the rough grading/earthwork of the site.

### **SHALLOW FOUNDATION**

Foundation support for the proposed construction could be derived by utilizing a shallow conventional continuous or spread foundation system extended below frost zone or insulated, embedded within the underlying bedrock or engineered fill compacted to 90%. An ultimate bearing capacity of 6000 psf and an allowable bearing capacity of 2000 psf may be used for foundation bearing on bedrock



or compacted fill. The recommended values are for a footing 18" wide and 18 inch deep. It may be increased by 300 psf for every additional foot of width or depth (3500 psf Max). A one-third increase in bearing capacity may be used for resistance against seismic and wind loading.

The recommended passive earth pressure (equivalent fluid weight) is 250 pcf (Max. 3000 pcf). Minimum reinforcement for 18 inch deep and 18 inch wide continuous footings should consist of four No. 4 steel reinforcing bars; two placed near the top of the footing and two near the bottom.

## **FRICITION PILES**

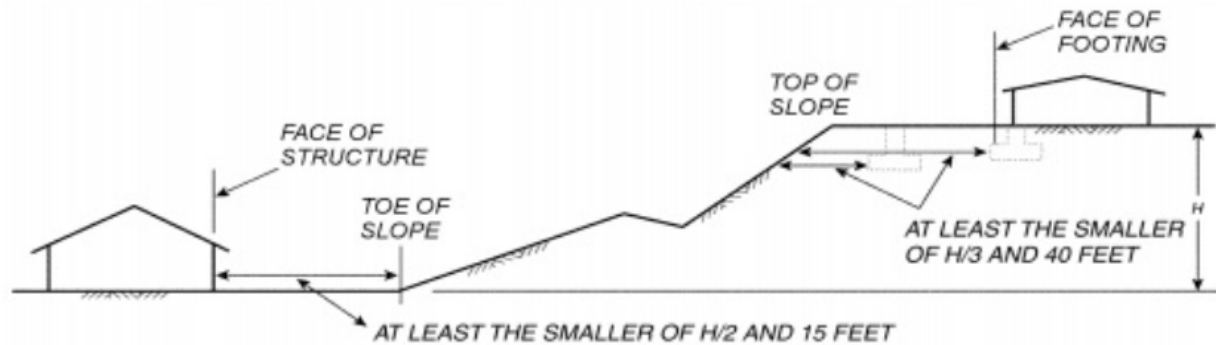
As an option, foundation support for the proposed construction could be derived by utilizing a friction pile foundation system. A minimum 24 inch diameter piers, embedded a minimum of 5 ft into the underlying bedrock should be considered. The capacity of fill should be ignored unless certified. Greater embedment may be necessary to resist lateral loads due to wind and seismic forces. An allowable skin friction resistance of 300 psf may be used for the design of friction pile system. The piers should not be spaced more than three diameter on center each way. For piers with closer spacing, a load capacity reduction factor of 0.75 due to pile group effects may be considered.

## **7.2 Retaining Wall**

Embedded structural walls should be designed for lateral earth pressures exerted on the walls. The magnitude of these earth pressures will depend on the amount of deformation that the wall can yield under the load. If the wall can yield sufficiently to mobilize the full shear strength of the soils, it may be designed for the active condition. If the wall cannot yield under the applied load, then the shear strength of the soil cannot be mobilized and the earth pressures will be higher. These walls such as basement walls and swimming pools should be designed for the at rest condition. If a structure moves towards the retained soils, the resulting resistance developed by the soil will be the passive resistance. For design purposes, the recommended equivalent fluid pressure for each case for walls constructed above the static groundwater table and backfilled with very low-expansive soils is provided below. Retaining wall backfill should be compacted to at least 95% relative compaction based on the maximum density of select import defined by ASTM D1557.

A conventional shallow 24 inch square spread or minimum 24 inch diameter pier foundation system embedded within the underling compacted fill or bedrock may be used to support the proposed retaining wall. Spread or pier foundation system should be properly reinforced, embedded a minimum of 36" below the finished sub grade elevation. Greater embedment may be necessary to resist lateral loads due to wind and seismic forces.

In cases where the ground surface slopes away from the foundation, passive resistance will be developed below an imaginary horizontal line that intersects the ground surface. As such, the requirements of 2016 CBC, Figure 1808.7.1 Foundation Clearances from Slopes should be adhered to as illustrated below:



For SI: 1 foot = 304.8 mm.

**FIGURE 1808.7.1**

### **FOUNDATION CLEARANCES FROM SLOPES**

Retaining structure may be designed per the following geotechnical parameters:

- Allowable Bearing Pressure: 2000 psf

The bearing value may be increased by 250 psf per foot increase in width or depth to a maximum allowable bearing pressure of 3500 psf.

- Coefficient of Friction: 0.40
- Soil Unit Weight: 120 pcf
- Allowable skin friction resistance: 300 psf
- Passive Earth Pressure - equivalent fluid weight of 250 pcf (Max. 3000 pcf)

Frictional resistance and passive pressure resistance may be used in combination if friction coefficient is reduced by one-third. A one-third increase in passive pressure may be used for resistance against seismic and wind loading.

Active earth pressures behind walls depend on wall movement, backfill slope, surcharge loads and back fill material.

**Table No. 4**

<b>Equivalent Fluid Density</b>	
<b>(PCF)</b>	<b>Level backfill</b>
Active Condition	40
At-rest Condition	65

Lateral resistance parameters provided above are ultimate values. Therefore, a suitable factor of safety should be applied to these values for design purposes. The appropriate factor of safety will depend on the design condition and should be determined by the project Structural Engineer. In addition to the above lateral forces due to retained earth, surcharge due to improvements, such as an adjacent structure should be considered in the design of the retaining wall. Loads applied within a 1:1 projection from the surcharging structure on the stem of the wall should be considered in the design. A third of uniform vertical surcharge-loads should be applied at the surface as a horizontal pressure on cantilever (active) retaining walls, while half of uniform vertical surcharge-loads should be applied as a horizontal pressure on braced (at-rest) retaining walls.

The backfill behind the wall should be drained properly. The simplest drainage system consists of a drain system located near the bottom of the wall. The drain collects the water that enters the backfill and this may be disposed of through outlets along the base of the wall. To insure that the drains are not clogged by fine particles, they should be surrounded by a granular filter wrapped in a geofabric such as Mirafi 140N or equivalent. In spite of a well-constructed toe drain, substantial water pressure may develop behind the wall if the backfill consists of clays or silts. A more satisfactory drainage system, consisting of a back drain of 12 inches to 24 inches width gravel may be provided behind the wall to facilitate the drainage. All back drains should be provided with outlet to suitable drainage facilities.

### **SEISMICALLY INDUCED LATERAL EARTH PRESSURES**

Retaining wall design calculations for lateral earth pressure due to earthquake motions for walls higher than 6 feet, as required by section 1803.5.12 of the Building Code is discussed below.

We have used  $\frac{1}{2}$  of  $\frac{2}{3}$  the  $PGA_M$  in our analysis ( $\frac{2}{6}$ ) ( $0.504 g$ ) =  $0.17g$ . Evaluation of lateral earth pressures under static and seismic loading conditions is based on using the Coulomb (1776) and Mononobe-Okabe (1929) Methods for frictional backfill materials with little to zero cohesion. For a level backfill, we recommend using a granular frictional soil material which exhibits friction angle 30 degrees or better. If this material is used, we recommend using combined of static and dynamic active equivalent earth pressure 55 pcf. For walls with a retained height over 6 feet, or where otherwise required by Code or deemed appropriate by the structural engineer, we recommend that the wall

designs be checked seismically using an additive seismic Equivalent Fluid Pressure (EFP) of 18 pcf. Such walls that are to be designed in the static case assuming the at-rest condition should be checked seismically using this additive seismic EFP added to the active condition (i.e., the additive seismic EFP is not added to the at-rest EFP). The additive seismic EFP should be applied with a standard EFP pressure distribution (i.e., it is not an inverted triangle).

### **7.3 Slab on Grade**

Slabs on grade should be underlain by a layer of four (4) inches free drainage 3/4" crushed rocks over firm native or approved structural fill. Slab thickness, reinforcement etc., should be selected by the structural engineer based on the analysis performed considering the loads anticipated, sub grade expansion potential and the modulus of subgrade reaction of the soil. As minimum, we recommend a 4.0 inch thick slab thickness, reinforced with #4 bars at 18 inch on center. The subgrade for the new slab should be prepared as recommended under Section 8.2 "Site Preparation." A vapor barrier over the crushed rock or approved subgrade soil should be considered in areas where the migration of moisture through the floor slab would be detrimental. To protect the vapor barrier (Visqueen) from punctures during placement, it is recommended that the Visqueen be placed over two-inch thick, clean sand layer. The vapor barrier should be at least 10-mil plastic (STEGO or Equivalent) and should be sealed at all splices, around plumbing, and at the perimeter of slab areas. Every effort should be made to provide a continuous barrier and care should be taken not to puncture the membrane. Some contractors exercising special care use heavier membranes or double layers of 10-mil plastic with splices staggered and sealed. All new slab design should be in compliance with the applicable sections of 2016 Cal Green.

### **Preliminary Pavement Design**

Based on site soil conditions and laboratory test results, an R-value of 35 was assumed for the preliminary flexible asphaltic concrete pavement design shown in the table below. The R-value should be verified during grading of the pavement areas.

Table 5  
**ASPHALT CONCRETE PAVEMENT THICKNESSES**

Traffic Index	Asphaltic Concrete	Class II Aggregate Base*	Compacted Subgrade*
5.0 (Parking and Vehicle Drive Areas)	3.0"	4.5"	12.0"
6.0 (Heavy Truck Areas)	3.0"	7.0"	12.0"

*\*95% compaction based on ASTM D1557 Test Method*

The following tabulated recommendations are for light-duty and heavy-duty Portland Cement Concrete pavement sections.

Table 6  
**PORTLAND CEMENT CONCRETE PAVEMENT THICKNESSES**

Traffic Index	Portland Cement Concrete*	Class II Aggregate Base**	Compacted Subgrade**
5.0 (Light Duty)	5.0"	4.0"	12.0"
6.0 (Heavy Duty)	6.0"	6.0"	12.0"

*\* Minimum Compressive Strength of 4,000 psi*

*\*\* 95% compaction based on ASTM D1557 Test Method*

## 8.0 CONSTRUCTION GUIDELINES

### 8.1 Construction Monitoring

As Geotechnical Engineer of Record for this project, Geodyne Engineering, should be involved in monitoring the foundation installation and earthwork activities. The performance of any foundation system is not only dependent on the foundation design, but it is strongly influenced by the quality of construction. Prior to construction, please contact our office so that a Foundation and Earthwork Monitoring Plan can be incorporated into the Project Quality Control Program.

### 8.2 Preliminary Site Preparation Recommendations

Prior to the start of grading operations, utility lines within the project area, should be located and marked in the field so they can be rerouted or protected during site development. All debris, vegetation, tree roots, organic matters and perishable material including remains of previous structures (if any) should be removed from the site.

When excavations deeper than five feet are made, temporary construction slopes should be no steeper than 1.5:1 (horizontal to vertical). Sheeting and bracing should be provided by the contractor, as necessary, to protect workers in the excavation. Where excavations undermine existing improvements, such as the existing walls, etc., temporary structural support should be provided to reduce the risk of damage resulting from undercutting. Permanent cut and fill slopes should not be constructed steeper than 2:1 and should be considered subject to review by the geotechnical consultant at the time of grading. These slopes should possess sufficient compacted fines to limit erosion risk. If upon construction, relatively clean, cohesionless sands are encountered, reconstruction by blending in fines to compacted fill and/or flattening of slopes will be advised. Where fill is to be placed including the bottom excavation, the upper 12 inches of the surface exposed by the excavation should be scarified, moisture-conditioned up to three (3) percent over optimum moisture content and compacted to 95 percent relative compaction. If localized areas of relatively loose soil prevent proper compaction, over-excavation, and re-compaction will be necessary.

Excavated soils generated from cut operations at the site are suitable for use as general Engineered Fill in structural areas, provided they do not contain deleterious matter, organic material, or rock material larger than 3 inches in maximum dimension. All earthwork should be conducted in accordance with the applicable codes, agency requirements, the aforementioned recommendations, and the standard grading guidelines. The minimum required compaction for the building pads is 90 percent of the maximum dry density as determined by ASTM D1557, with moisture content of up to three percentage points above the optimum moisture content of the soil.

### **Site grading**

The ground immediately adjacent to the foundation shall be sloped away from the building at a slope of not less than one unit vertical in 20 units horizontal (5-percent slope) for a minimum distance of 10 feet measured perpendicular to the face of the wall. If physical obstructions or lot lines prohibit 10 feet of horizontal distance, a 5-percent slope shall be provided to an approved alternative method of diverting water away from the foundation. Swales used for this purpose shall be sloped a minimum of 2 percent where located within 10 feet of the building foundation. Impervious surfaces within 10 feet of the building foundation shall be sloped a minimum of 2 percent away from the building.

### **8.3 Temporary Drainage Measures**

Temporary drainage provisions should be established to minimize water runoff into construction areas. If standing water does accumulate, it should be removed by pumping as soon as possible.

Adequate protection against sloughing of soils should be provided for workers and inspectors entering the excavations. This protection should meet Cal OSHA and other applicable building codes.

#### **8.4 Select Structural Fill (IMPORT)**

Any select structural fill used at the site for general construction use should have a Liquid Limit less than 35 and a Plasticity Index between 5 and 15. The fill should contain no particles greater than one (1) inch in diameter. The percent passing U.S. Standard Sieve No. 4 should be between 40 and 80 percent and passing Sieve No. 40 between 10 and 50 percent. The percent passing Sieve No. 200 should be less than 20 percent.

Pit-run gravels (with some clay binders) and crushed limestone (with sufficient fines to bind the aggregate together) are examples of suitable select structural fill materials. The fill materials should be placed in loose lifts not to exceed 8 inches thick and compacted to 95 percent of the maximum dry density as determined by ASTM D1557, with moisture content of up to (2) percentage points above optimum.

#### **8.5 Groundwater Seepage**

In areas where significant cuts (2-feet or more) are made to establish final grades for building pads, attention should be given to possible seasonal water seepage that could occur through natural cracks and fissures in the newly exposed stratigraphy. Subsurface drains may be required to intercept seasonal groundwater seepage. The need for these, or other dewatering devices, on building pads should be carefully addressed during construction. Our office could be contacted to visually inspect final pads to evaluate the need for such drains.

Groundwater seepage may occur several years after construction if the rainfall rate or drainage changes in the vicinity of the project site. If seepage runoff occurs towards the building, an engineer from our office should be called on to evaluate its' effect and determine whether French drains are required at the location.

#### **8.6 Control Testing and Field Observation**

Subgrade preparation and structural fill placement should be monitored by the project geotechnical engineer or his representative. Field-tests for moisture content and relative compaction of the fill soils shall be performed by Geodyne Engineering, Inc. Location and frequency of tests shall be at our field representative(s) discretion based on field conditions encountered. Compaction test locations will not necessarily be selected on a random basis. Test locations shall be selected to verify adequacy of compaction levels in areas that are judged to be prone to inadequate compaction. Any areas not meeting the required compaction should be re-compacted and retested until compliance is met.

## 8.7 Temporary Excavations

Temporary slopes on the order of 1.5H to 1V may be provided for excavations. These recommendations may require modification where loose soil or ground water is encountered. The contractor is responsible for the safety of the workers and should observe the federal and local regulations including Cal-OSHA excavation and trench safety guidelines. During wet weather, runoff water should be prevented from entering the excavation.

## 9.0 SITE DRAINAGE AND MAINTENANCE

Final drainage is important for the performance of the proposed construction. Landscaping, plumbing, and downspout drainage is also important. It is vital that all roof drainage be transported away from the structures so that water does not pond around it, which can result in a soil volume change underneath the structures. Plumbing leaks (if any) should be repaired as soon as possible in order to minimize the magnitude of a moisture change under the slab. Large trees and shrubs should not be planted in the immediate vicinity of the structures, since root systems can cause a substantial reduction in soil volume in the vicinity of the trees during dry periods.

Adequate drainage should be provided to reduce seasonal variations in moisture content of foundation soils. All pavement and sidewalks within 10-feet of the structures should be sloped away from the structures to prevent ponding of water around the foundations. Final grades within 10-feet of the structure should be adjusted to slope away from structures preferably at a minimum slope of 5 percent. Maintaining positive surface drainage throughout the life of the structure is essential.

In areas with pavement or sidewalks adjacent to the new structure, a positive seal must be provided and maintained between the structures and the pavement or sidewalk to minimize seepage of water into the underlying supporting soils. Post-construction movement of pavement and flat-work is not uncommon. Maximum grades practical should be used for paving and flatwork to prevent areas where water can pond. In addition, allowances in final grades should take into consideration post construction movement of flatwork, particularly if such movement would be critical. Normal maintenance should include inspection of all joints in paving and sidewalks, etc. as well as re-sealing where necessary.

Trench backfill for utilities should be properly placed and compacted, as outlined in this report, and in accordance with the requirements of local City, County and/or State Standards. Since granular bedding backfill is used for most utility lines, the backfilled trench should be prevented from becoming a conduit and allowing an access for surface or subsurface water to travel toward the new structures. Concrete cut-off collars or clay plugs should be provided where utility lines



cross building lines to prevent water from traveling in the trench backfill and entering beneath the structures.

### **Plan Review**

The project geotechnical engineer should review the final plans for the proposed structures so that he may determine if changes in the foundation recommendations are required.

## **10.0 LIMITATIONS**

Only a portion of subsurface conditions have been reviewed and evaluated. Conclusions, recommendations, and other information contained in this report are based upon the assumption that the subsurface conditions do not vary appreciably between and adjacent to the observation points. Although no significant variation is anticipated, it must be recognized that variations can occur. This report has been prepared for the sole use and benefit of our client. The intent of the report is to advise our client on geotechnical matters involving the proposed improvements. It should be understood that the geotechnical consulting provided and the contents of this report are not perfect. Any errors or omissions noted by any party reviewing this report and/or any other geotechnical aspect of the project should be reported to this office in a timely fashion. The client is the only party intended by this office to directly receive the advice. Subsequent use of this report can only be authorized by the client. Any transferring of information or other-directed use by the client should be considered "advice by the client."

Geotechnical engineering is characterized by uncertainty. Geotechnical engineering is often described as an inexact science or art. Conclusions and recommendations presented herein are partly based upon the evaluations of technical information gathered, partly on experience, and partly on professional judgment. The conclusions and recommendations presented should be considered "advice." Other consultants could arrive at different conclusions and recommendations. Typically, "minimum" recommendations have been presented. Although some risk will always remain, lower risk of future problems would usually result if more restrictive criteria were adopted. Final decisions on matters presented are the responsibility of the client and/or the governing agencies. No warranties in any respect are made as to the performance of the project.

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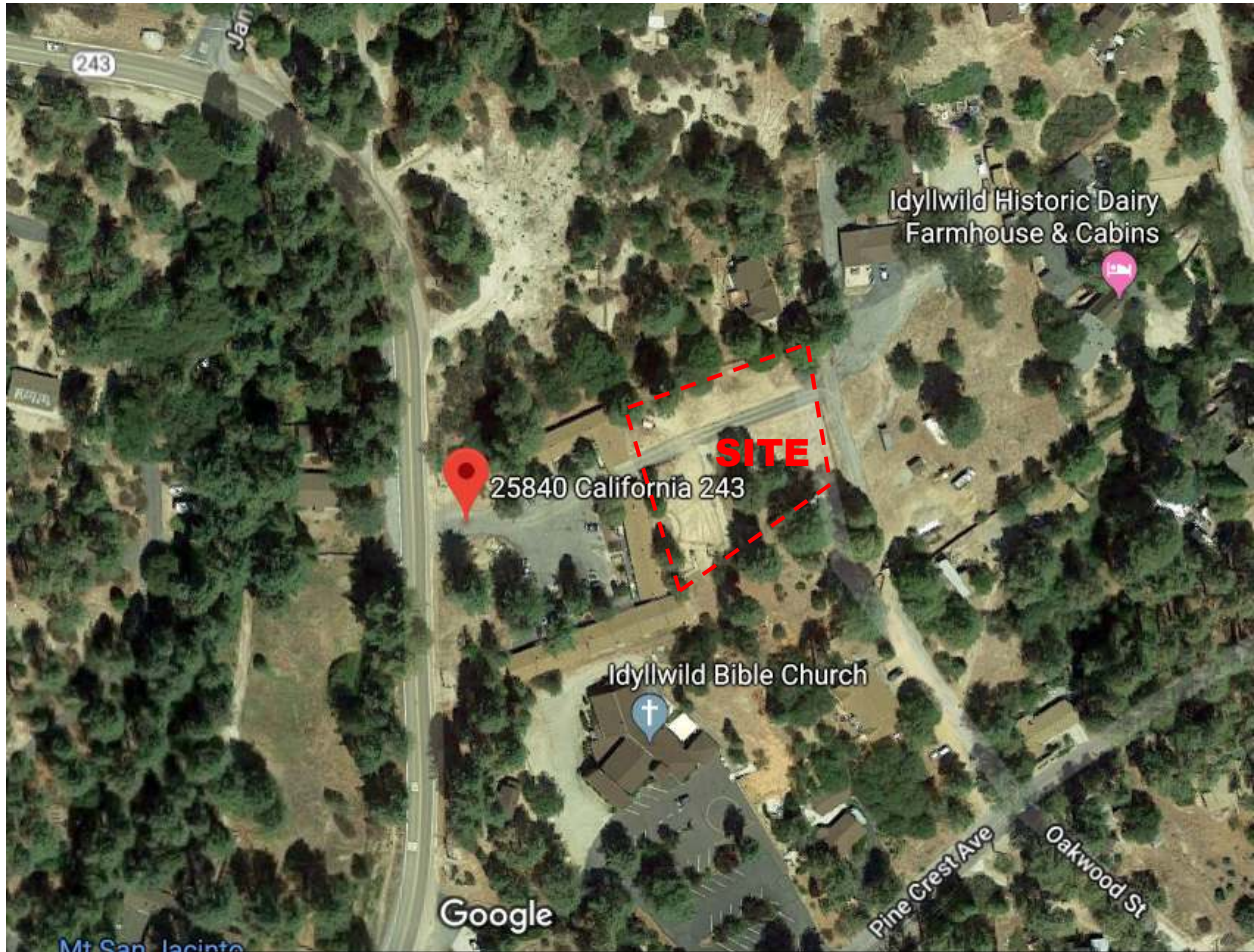
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## **APPENDIX A**



North  
NTS

**Limited Geotechnical Investigation**  
Proposed Extended Stay Lodges at:  
25840 Idyllwild Road, Idyllwild, Riverside County, CA

***GEODYNE ENGINEERING, INC.***

Vicinity Map

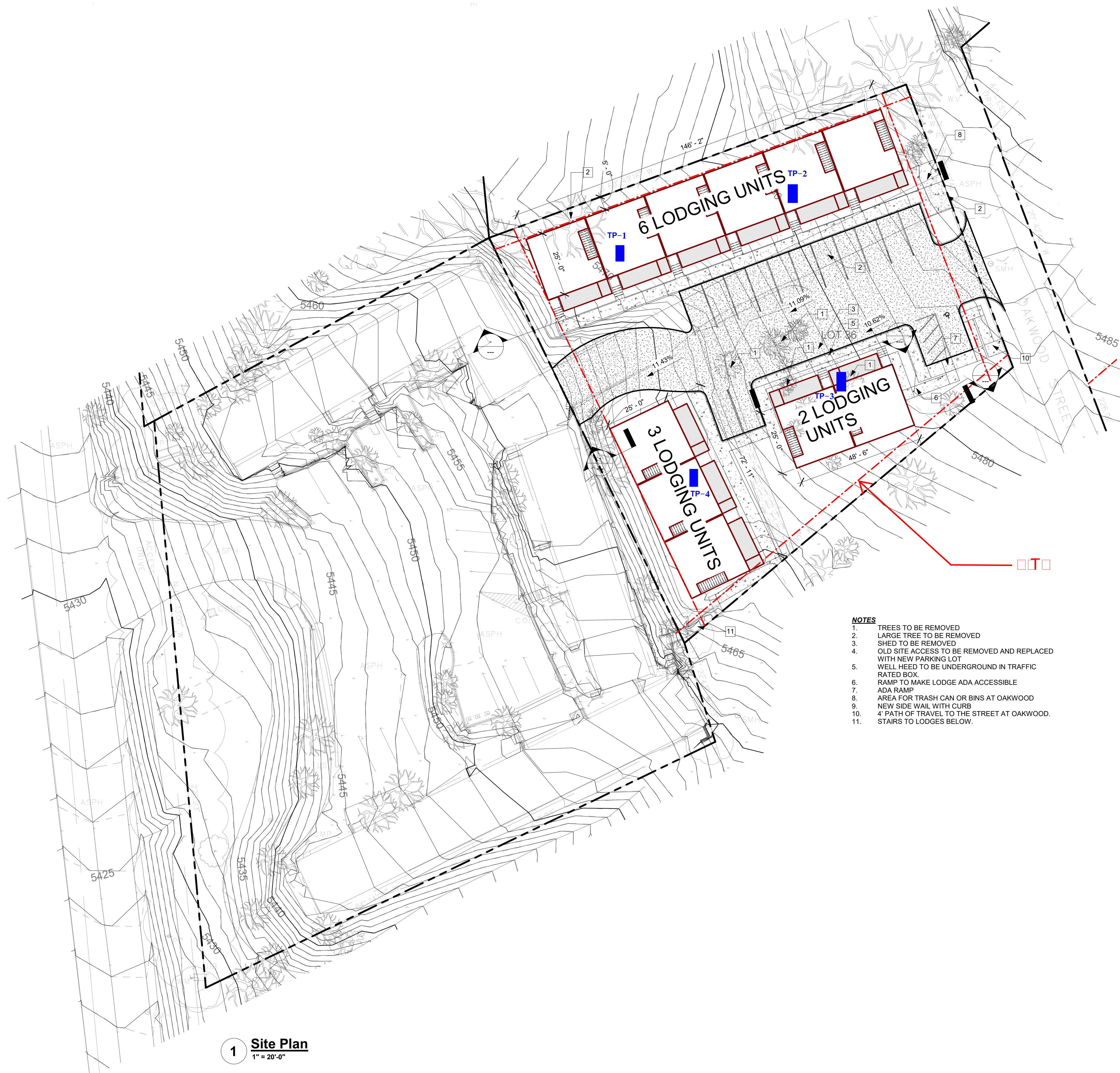
Project No. GD19G508

Figure: A

# Design Review For: Idyllwild Stewart Extended Stay Lodges

25840 Idyllwild Rd. Idyllwild,  
CA.92549

Number	Revision Description	Date



- NOTES**
- TREES TO BE REMOVED
  - LARGE TREE TO BE REMOVED
  - SHED TO BE REMOVED
  - OLD SITE ACCESS TO BE REMOVED AND REPLACED WITH NEW PARKING LOT
  - WELL NEED TO BE UNDERGROUND IN TRAFFIC RATED BOX.
  - RAMP TO MAKE LODGE ADA ACCESSIBLE
  - ADA RAMP
  - AREA FOR TRASH CAN OR BINS AT OAKWOOD
  - NEW SIDE WALK WITH CURB
  - 4' PATH OF TRAVEL TO THE STREET AT OAKWOOD
  - STAIRS TO LODGES BELOW.

1 Site Plan  
1" = 20'-0"

**Legend:**  
TP-4  
Approximate Test Pit Locations

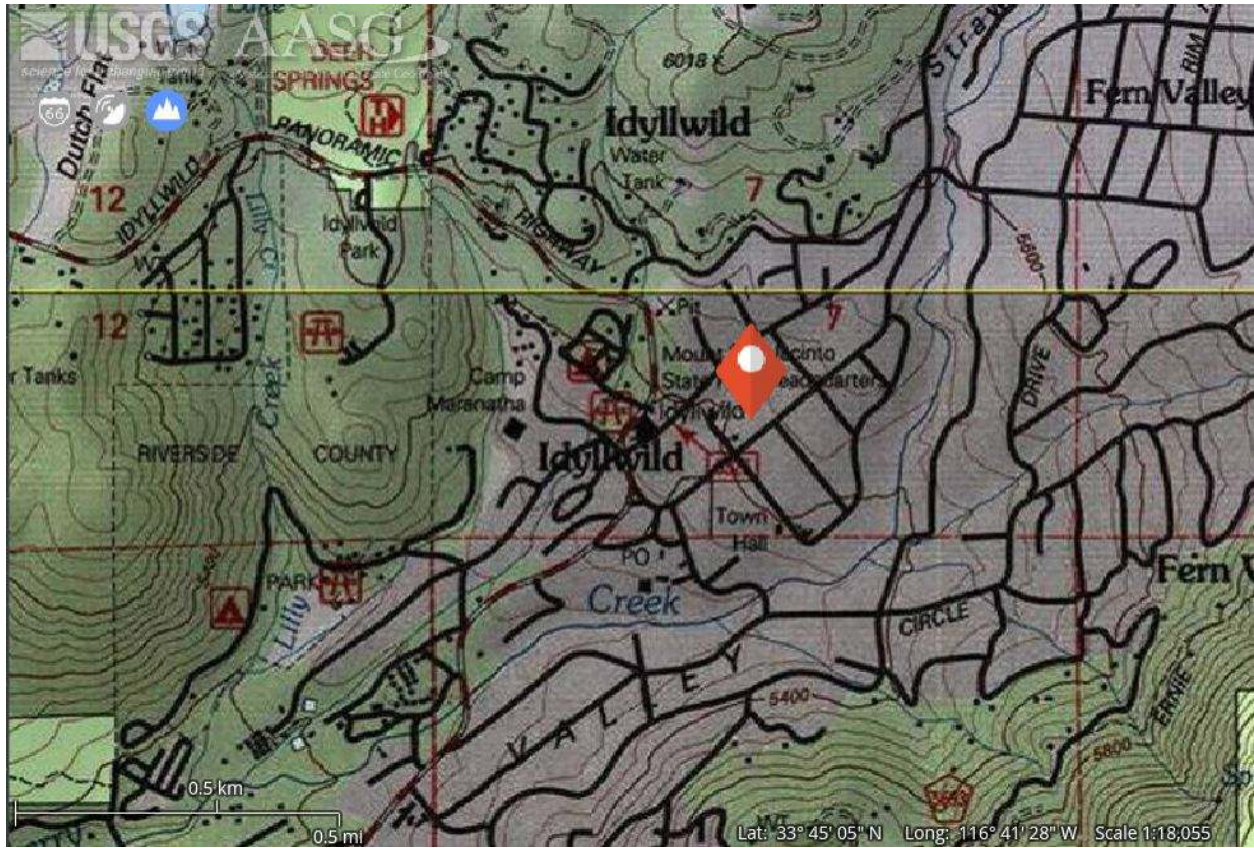
<b>GEODYNE ENGINEERING, INC.</b>	
Approximate Test Pit Locations Plan	
Project No. GD19G508	Figure: □

Design Review For:  
**Idyllwild Stewart  
Extended Stay Lodges**

19-324  
9-12-2019  
25840 Idyllwild Rd. Idyllwild,  
CA.92549

**DR100**

Site Plan  
Concept



NORTH



**Limited Geotechnical Investigation**  
 Proposed Extended Stay Lodges at:  
 25840 Idyllwild Road, Idyllwild, Riverside County, CA

***GEODYNE ENGINEERING, INC.***
















USGS Topographic Map

Project No. G□□G□□

Figure: C

## **APPENDIX B**

## Unified Soil Classification System

Major Divisions			Letter	Symbol	Description	
<b>Coarse-grained Soils</b> More than 1/2 retained on the No. 200 Sieve	<b>Gravels</b> More than 1/2 coarse fraction retained on the No. 4 sieve	Clean Gravels	GW		Well-graded gravels and gravel-sand mixtures, little or no fines.	
		Gravels	GP		Poorly-graded gravels and gravel-sand mixtures, little or no fines.	
		Gravels With Fines	GM		Silty gravels, gravel-sand-silt mixtures.	
			GC		Clayey gravels, gravel-sand-clay mixtures.	
	<b>Sands</b> More than 1/2 passing through the No. 4 sieve	Clean Sands	SW		Well-graded sands and gravelly sands, little or no fines.	
			SP		Poorly-graded sands and gravelly sands, little or no fines.	
		Sands With Fines	SM		Silty sands, sand-silt mixtures	
			SC		Clayey sands, sandy-clay mixtures.	
	<b>Fine-grained Soils</b> More than 1/2 passing through the No. 200 Sieve	<b>Silts and Clays</b> Liquid Limit less than 50%		ML		Inorganic silts, very fine sands, rock flour, silty or clayey fine sands.
				CL		Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, silty clays, lean clays.
		OL		Organic clays of medium to high plasticity.		
<b>Silts and Clays</b> Liquid Limit greater than 50%		MH		Inorganic silts, micaceous or diatomaceous fines sands or silts, elastic silts.		
		CH		Inorganic clays of high plasticity, fat clays.		
		OH		Organic clays of medium to high plasticity.		
<b>Highly Organic Soils</b>			PT		Peat, muck, and other highly organic soils.	
<b>Consistency Classification</b>						
<i>Granular Soils</i>			<i>Cohesive Soils</i>			
Description - Blows Per Foot (Corrected)			Description - Blows Per Foot (Corrected)			
Very loose	<u>MCS</u> <5	<u>SPT</u> <4	Very soft	<u>MCS</u> <3	<u>SPT</u> <2	
Loose	5 - 15	4 - 10	Soft	3 - 5	2 - 4	
Medium dense	16 - 40	11 - 30	Firm	6 - 10	5 - 8	
Dense	41 - 65	31 - 50	Stiff	11 - 20	9 - 15	
Very dense	>65	>50	Very Stiff	21 - 40	16 - 30	
			Hard	>40	>30	
MCS = Modified California Sampler			SPT = Standard Penetration Test Sampler			



## LOG OF EXPLORATORY TEST PIT

Project No.  D       
 Project: **Extended Stay**  **odge**  -Idyllwild  
 Date: 11/5/2019

TP No: 1  
 Test Pit Location: See Plot Plan  
 Groundwater: None  
 Type: Backhoe excavator  
 CA. Mod. Manual Sampling

Depth in Feet	Soil Type	Sample Type		SOIL DESCRIPTION	Blows/foot	Moisture Content, %	Dry Density, pcf	% Heave	% Collaps	Comments	
		Undisturbed	Bulk								
				<input type="checkbox"/> Bulk Sample <input type="checkbox"/> Standard Split Spoon Sample <input type="checkbox"/> Thin Wall Tube <input checked="" type="checkbox"/> 2.5" Ring Sample <input type="checkbox"/> Static Water Table							
5	SW			Bareground, <u>0.0'-3.0': Artificial FILL (Qaf)</u> Light grayish brown fine-coarse SAND, slightly silty, with pebbles, medium dense, dry-damp, 3/4 inch tree roots,						No ring sample recovery 	
				<u>3.0'-6.5': Decompsed granite (DG)</u> Tan-light brown, coarse texture, highly weathered, friable to touch, at 5.5' becomes mottled, white, black dots,							
				<b>End of Test Pit @ 6.5-feet</b> <b>No groundwater or caving</b> Excavation backfilled <input type="checkbox"/> <input type="checkbox"/> cutting spoil,							
10											
15											

### LOG OF EXPLORATORY TEST PIT

Project No.  D        
 Project: **Extended Stay**  **odge**  **-Idyllwild**  
 Date: 11/5/2019

TP No: 2  
 Test Pit Location: See Plot Plan  
 Groundwater: None  
 Type: Backhoe excavator  
 CA. Mod. Manual Sampling



Depth in Feet	Soil Type	Sample Type		SOIL DESCRIPTION	Blows/foot	Moisture Content, %	Dry Density, pcf	% Heave	% Collaps	Comments
		Undisturbed	Bulk							
				<input type="checkbox"/> Bulk Sample <input type="checkbox"/> Standard Split Spoon Sample <input type="checkbox"/> Thin Wall Tube <input checked="" type="checkbox"/> 2.5" Ring Sample <input type="checkbox"/> Static Water Table						
5	SW			Bareground, <u>0.0'-2.0': Artificial FILL (Qaf)</u> Light grayish brown SAND, slightly silty fine-coarse, medium dense, dry-damp, <u>2.0'-7.0': Decompsed granite (DG)</u> Tan-light brown, fine-coarse texture, friable, highly weathered,						No ring sample recovery 
10				<b>End of Test Pit @ 7.0-feet</b> <b>No groundwater or caving</b> <b>Excavation backfilled <input type="checkbox"/> <input type="checkbox"/> cutting spoil,</b>						
15										



### LOG OF EXPLORATORY TEST PIT

Project No.  D       
 Project: **Extended Stay Lounges-Idyllwild**  
 Date: 11/5/2019

TP No: 3  
 Test Pit Location: See Plot Plan  
 Groundwater: None  
 Type: Backhoe excavator

Depth in Feet	Soil Type		Sample Type				Blows/foot	Moisture Content, %	Dry Density, pcf	% Heave	% Collaps	Comments
	Undisturbed	Bulk	<input type="checkbox"/> Bulk Sample	<input type="checkbox"/> Thin Wall Tube	<input type="checkbox"/> Standard Split Spoon Sample	<input checked="" type="checkbox"/> 2.5" Ring Sample						
SOIL DESCRIPTION												
5			Bareground, <u>.0.5'-2.5': Decompsed granite (DG)</u> Tan-light brown, brittle, hard,  <b>End of Test Pit @ 2.5-feet</b> <b>No groundwater or caving</b> <b>Excavation backfilled <input type="checkbox"/> <input type="checkbox"/> cutting spoil,</b>									
												
15												

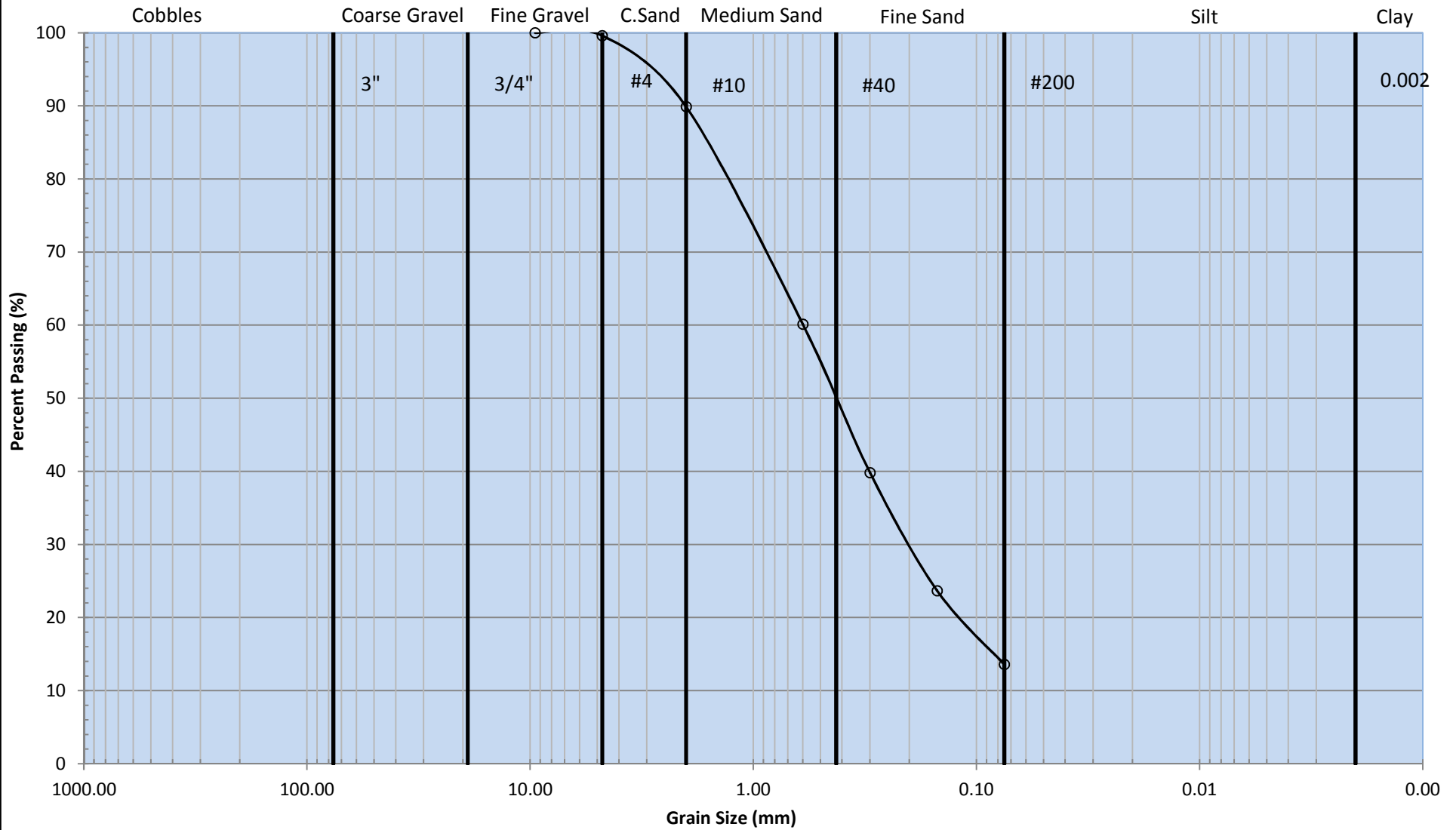
## **APPENDIX C**

PARTICLE SIZE ANALYSIS						
			ASTM C -136			
<b>Project Name:</b> Extended Stay - Idyllwild						
<b>Sample Type</b> Sand ( Component Granite, Micaceous )						
			<b>Boring No:</b> TP-1		<b>Depth:</b> 2-7 '	
<b>Date Sampled</b>		11/8/2019		Test Performed By: HM		
<b>Dry Weight After Wash (g):</b>			759.3			
Sieve Size	Wet Retained	Accumulated Wet Retained	% Retained	Accumulated	Passing	
	(g)	(g)		%	%	
2 1/2"	0	0	0.00	0.00	100.00	
2 "	0	0	0.00	0.00	100.00	
1 1/2 "	0	0	0.00	0.00	100.00	
1"	0	0	0.00	0.00	100.00	
3/4"	0	0	0.00	0.00	100.00	
1/2"	0	0	0.00	0.00	100.00	
3/8"	0	0	0.00	0.00	100.00	
4	3	3	0.40	0.40	99.60	
10	73.8	76.8	9.72	10.11	89.89	
16	0	76.8	0.00	10.11	89.89	
30	225.9	302.7	29.75	39.87	60.13	
40		302.7	0.00	39.87	60.13	
50	154.1	456.8	20.30	60.16	39.84	
60	0	456.8	0.00	60.16	39.84	
100	122.7	579.5	16.16	76.32	23.68	
200	76.5	656	10.08	86.40	13.60	
PAN	103.3	759.3	13.60	100.00	0.00	

□□M □□□

□□□r□ D

# Grain Size



Project Name: **Exrended Stay - Idyllwild**

Location: TP-1

Sample No: **1**

Date: 11/8/2019

Job No. ST19G123

Depth: 2'-7'

By: HM

Gravel	0.0
Sand	86.4
PP-200	13.6
<b>Total</b>	<b>100.0</b>

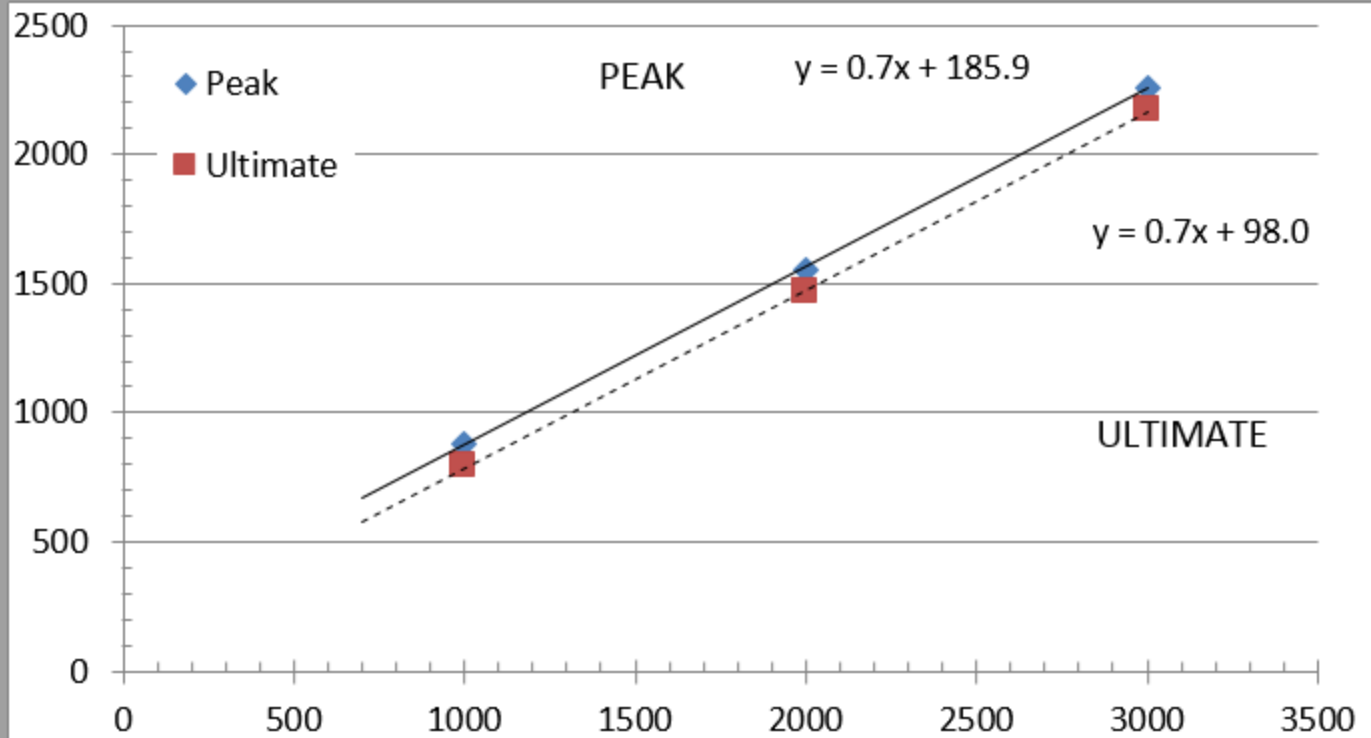
LL= \_\_\_\_\_ PL= \_\_\_\_\_ PI= \_\_\_\_\_

□□□□□□

□□M□□□







#### Actual Values Being Plotted

Normal	Peak	Ultimate
1000	881	793
2000	1556	1468
3000	2261	2173

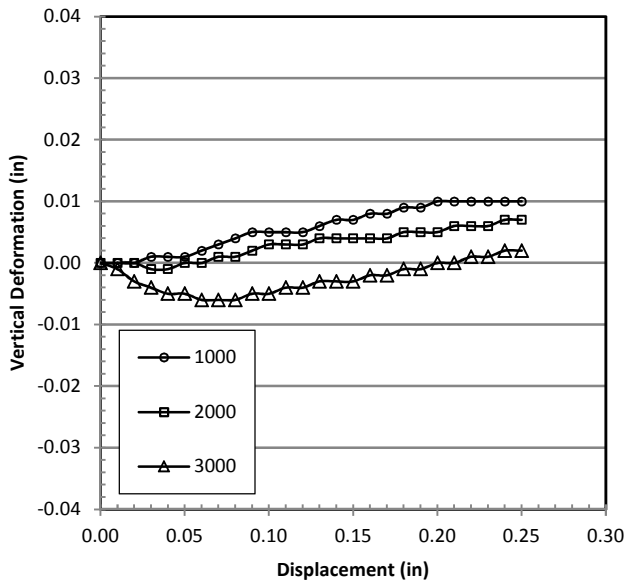
Samples Tested	1	2	3	4
Boring ID	TP-2	TP-2	TP-2	0
Depth (in/ft.)	3.0-7.0	3.0-7.0	3.0-7.0	0
Initial Dry Density (pcf)	112.5	112.5	112.5	0
Initial Moisture Content (%)	8	8	8	0
Normal Stress (psf)	1000	2000	3000	0
Maximum Shear Stress (psf)	881	1556	2261	0
Ultimate Shear Stress (psf)	793	1468	2173	0

	Peak	Ultim.
Friction, phi (Deg)	35	35
Cohesion (psf)	186	98

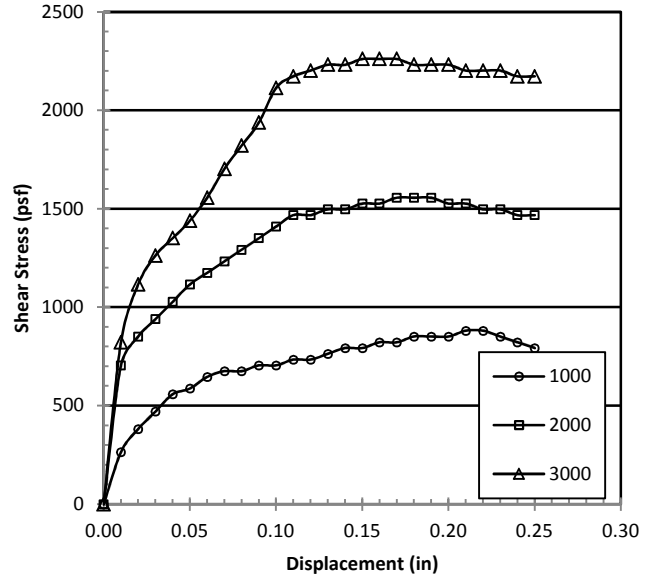
Date 11/9/2019  
 Method: Drained  
 Consolidation: Yes  
 Saturation: Yes  
 Strain Rate (in/min): 0.005

ASTM D3080

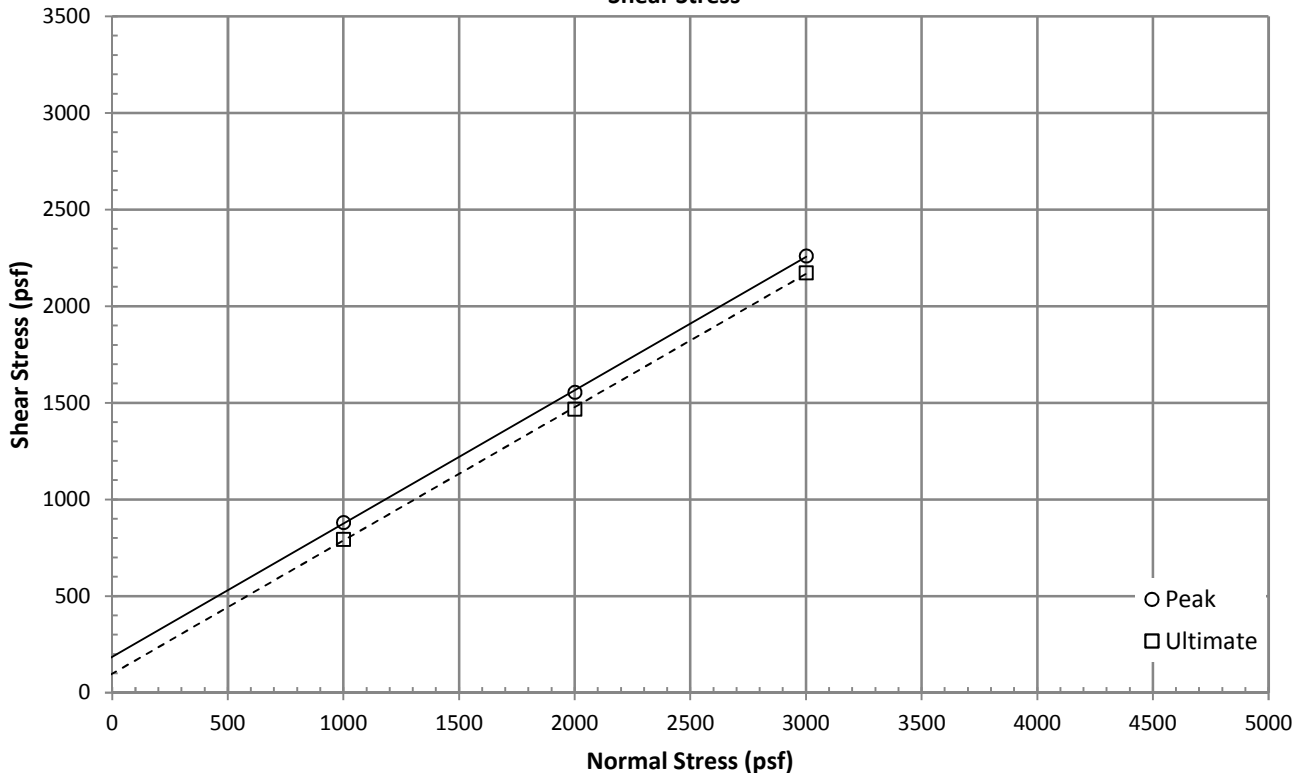
Vertical Deformation v. Displacement



Shear Stress v. Displacement



Shear Stress



	<b>DIRECT SHEAR TEST RESULTS</b> Extended Stay - Idyllwild	F.N.: GD19G508 Date: 11/9/2019
--	---	-----------------------------------

## Remolding Soil Sample

FORMULA		
Maximum Dry Density		125
Moisture %		8
Dry Density	90 % Of Max D.D.	112.5
Ring Volume		1.2787
(1.2787)( D.D) (100+Moist )		155.36

Wt. Wet Soil + Tere	g	132.4
Wt. Wet Dry + Tere	g	126.8
Wt of Tere	g	53.6
Moisture Lost	g	5.6
Dry Soil	g	73.2
Moisture	%	7.65

FORMULA		
Maximum Dry Density		125
Moisture %		7.65
Dry Density	90 % Of Max D.D.	112.5
Ring Volume		1.2787
(1.2787)( D.D) (100+Moist )		154.86

Total Soil For 4 Rings	g	619.4
Bowl	g	263.1
Total Mix Before Water Added	g	882.5
Total Mix For 4 Rings+ Bowl	g	884.5
Total Water added	g	<b>2.0</b>
Total Mix	g	<b>884.5</b>

**P.N.**

**Projet : Extended Stay - Idyllwild**

**Excavation TP-2**

**Depth: 3.0'-7.0 '**

# CONSOLIDATION FOR SHEAR

ASTM D-2435

Project Name: **Extended Stay - Idyllwild**  
 Location: \_\_\_\_\_  
 File No: D

Excavation: **TP-2**  
 Depth: **3.0'-7.0'**

Tested By: **H-M**

Sample Type: **Remolded to 90 % of M.D.D and O.M.C.**

Ring I D      2.5 "

Boring No.	Depth (ft.)	Date	Time	Load (psf)	Water Added	Dial Read (in.)	Deform. (in.)	Consol %	Swell or Collapse
TP-2	0-2.5'	11/8/2019	9.30	1000		0.4409			
		11/8/2019	9.40			0.4400			
		11/9/2019	9.30			0.4409	0.0009	0.09	Swell
TP-2	0-2.5'	11/8/2019	9.30	2000		0.5029			
		11/8/2019	9.40			0.5021			
		11/9/2019	9.30			0.5012	-0.0009	-0.09	Collapse
TP-2	0-2.5'	11/8/2019	9.30	3000		0.5271			
		11/8/2019	9.40			0.5265			
		11/9/2019	9.30			0.5249	-0.0016	-0.16	Collapse

## SAMPLE INFORMATION FOR CONSOLIDATION AND SHEAR

Description	Micaceous Silty Sand Slightly Clay		Micaceous Silty Sand Slightly Clay		Micaceous Silty Sand Slightly Clay			
	Before	After	Before	After	Before	After		
Boring No.								
Depth (ft.)								
Load (psf)	1000		4000		5000			
	Before	After	Before	After	Before	After		
Ring + Wet Soil	294.79		299.01		298.66			
Ring Wt.	139.43		143.65		143.3			
Wt. of Soil	155.36		155.36		155.36			
Factor	0.002817	0.002841	0.002817	0.002836	0.002817	0.002834		
Wet Density	121.48	120.44	121.48	120.66	121.48	120.74		
Cup No.		90		26		86		
Cup + Wet Soil		177.18		174.67		175.6		
Cup + Dry Soil		148.36		147.63		149.19		
Moist. Loss		28.82		27.04		26.41		
Cup		8.67		8.76		8.47		
Dry Soil		139.69		138.87		140.72		
Moist. Cont. (%)	8.00	20.63	8.00	19.47	8.00	18.77		
Dry Density	112.48	99.84	112.48	100.99	112.48	101.66		

M

# MAXIMUM DENSITY

ASTM D-1557

Project Name: Extended Stay - Idyllwild

Excavation: TP-2

Location: \_\_\_\_\_

Depth: 2.0'-7.0'

Description: Medium Brown Sand

File No: □D□□□□□□

Date: 11/6/2019

Sieve Size 4

Mold Size 4"

No. of Layers 5

% Retained None

Method A

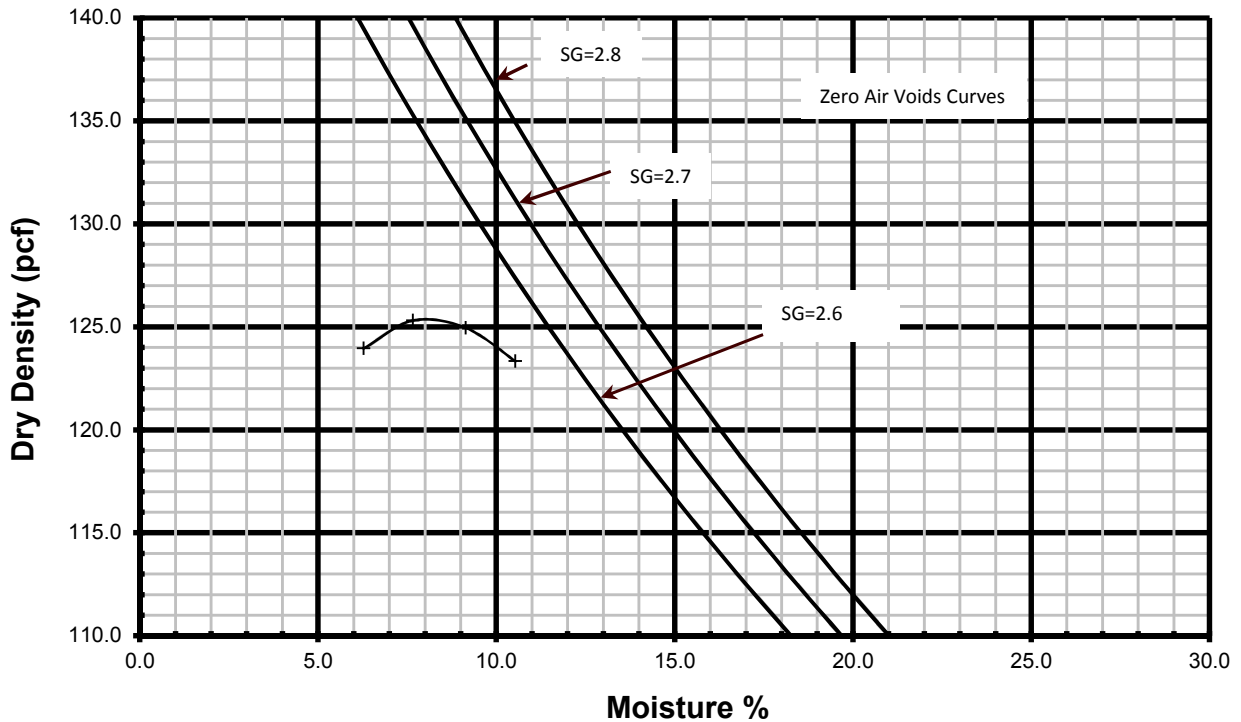
By: H-M

Test point number		1	2	3	4		
Wt. wet soil + mold	g	3839.4	3887.3	3909.6	3908.7		
Wt. wet soil + mold	lbs	8.46	8.56	8.61	8.61		
Wt. of mold	lbs	4.07	4.07	4.07	4.07		
Wt. wet of soil	lbs	4.39	4.49	4.54	4.54		
Wet density	pcf	131.74	134.90	136.38	136.32		
Dry density	pcf	123.95	125.31	124.96	123.33		

## Moisture Determination (Oven)

Container number		27	22	18	16		
Wt. wet of soil+tare	g	284.5	348.8	288.6	276.9		
Dry wt. soil+tare	g	268.2	324.6	265.1	251.3		
Tare wt.	g	8.62	8.62	8.04	8.27		
Wt. of moisture	g	16.30	24.20	23.50	25.60		
Dry wt. of soil	g	259.58	315.98	257.06	243.03		
Moisture Content	g	6.28	7.66	9.14	10.53		

## Max Density



Maximum Density 125.0 pcf

Optimum Moisture 8.0 %

□□M □□□

□□□r□ □

# ANAHEIM TEST LAB, INC

196 Technology Drive, Unit D  
Irvine, CA 92618  
Phone (949)336-6544

DATE: 11/06/2019

P.O. NO: Transmittal

LAB NO: C-3338

SPECIFICATION: CTM-417/422/643

MATERIAL: Soil

TP-3 @ 3'-7'

Project: Idyllwild Ext. Stay  
Date Sampled: 11/05/2019

## ANALYTICAL REPORT

### CORROSION SERIES SUMMARY OF DATA

pH	SOLUBLE SULFATES per CT. 417 ppm	SOLUBLE CHLORIDES per CT. 422 ppm	MIN. RESISTIVITY per CT. 643 ohm-cm
7.1	131	54	31,000

RESPECTFULLY SUBMITTED

  
WES BRIDGER LAB MANAGER

## **APPENDIX D**

### Search Information

**Address:**

**Coordinates:** 33.747119, -116.711249

**Elevation:** ft

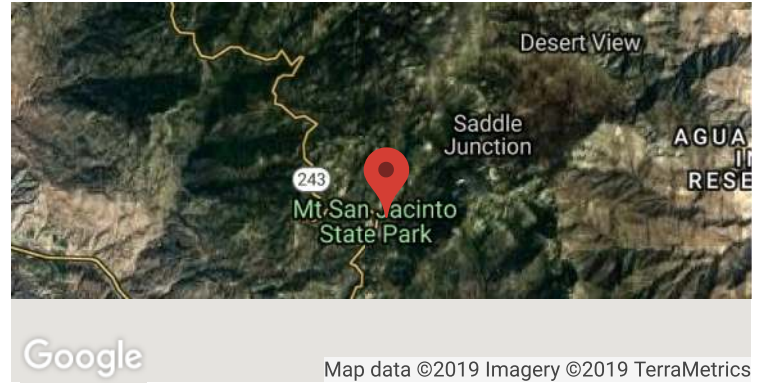
**Timestamp:** 2019-11-12T06:02:43.127Z

**Hazard Type:** Seismic

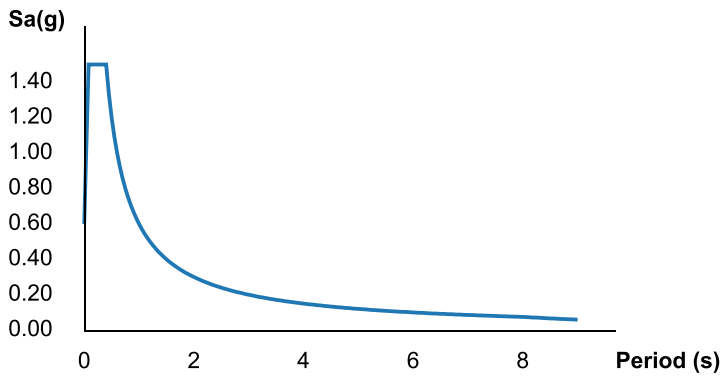
**Reference Document:** ASCE7-10

**Risk Category:** II

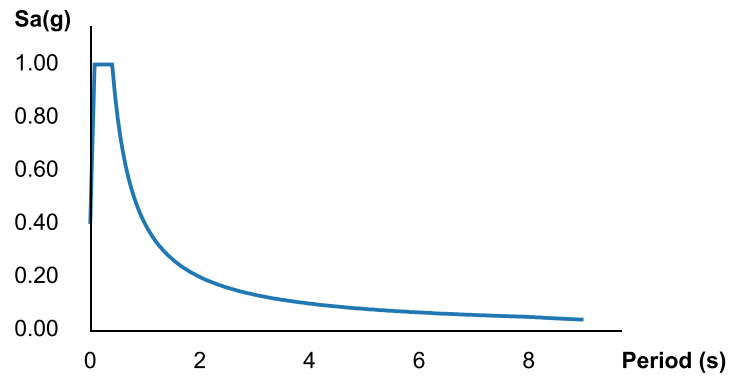
**Site Class:** B



### MCE<sub>R</sub> Horizontal Response Spectrum



### Design Horizontal Response Spectrum



### Basic Parameters

Name	Value	Description
S <sub>S</sub>	1.5	MCE <sub>R</sub> ground motion (period=0.2s)
S <sub>1</sub>	0.6	MCE <sub>R</sub> ground motion (period=1.0s)
S <sub>MS</sub>	1.5	Site-modified spectral acceleration value
S <sub>M1</sub>	0.6	Site-modified spectral acceleration value
S <sub>DS</sub>	1	Numeric seismic design value at 0.2s SA
S <sub>D1</sub>	0.4	Numeric seismic design value at 1.0s SA

### Additional Information

Name	Value	Description
SDC	D	Seismic design category
F <sub>a</sub>	1	Site amplification factor at 0.2s
F <sub>v</sub>	1	Site amplification factor at 1.0s



CR <sub>S</sub>	1.056	Coefficient of risk (0.2s)
CR <sub>1</sub>	1.016	Coefficient of risk (1.0s)
PGA	0.504	MCE <sub>G</sub> peak ground acceleration
F <sub>PGA</sub>	1	Site amplification factor at PGA
PGA <sub>M</sub>	0.504	Site modified peak ground acceleration
T <sub>L</sub>	8	Long-period transition period (s)
SsRT	2.035	Probabilistic risk-targeted ground motion (0.2s)
SsUH	1.926	Factored uniform-hazard spectral acceleration (2% probability of exceedance in 50 years)
SsD	1.5	Factored deterministic acceleration value (0.2s)
S1RT	0.788	Probabilistic risk-targeted ground motion (1.0s)
S1UH	0.775	Factored uniform-hazard spectral acceleration (2% probability of exceedance in 50 years)
S1D	0.6	Factored deterministic acceleration value (1.0s)
PGAd	0.504	Factored deterministic acceleration value (PGA)

*The results indicated here DO NOT reflect any state or local amendments to the values or any delineation lines made during the building code adoption process. Users should confirm any output obtained from this tool with the local Authority Having Jurisdiction before proceeding with design.*

## Disclaimer

Hazard loads are provided by the U.S. Geological Survey [Seismic Design Web Services](#).

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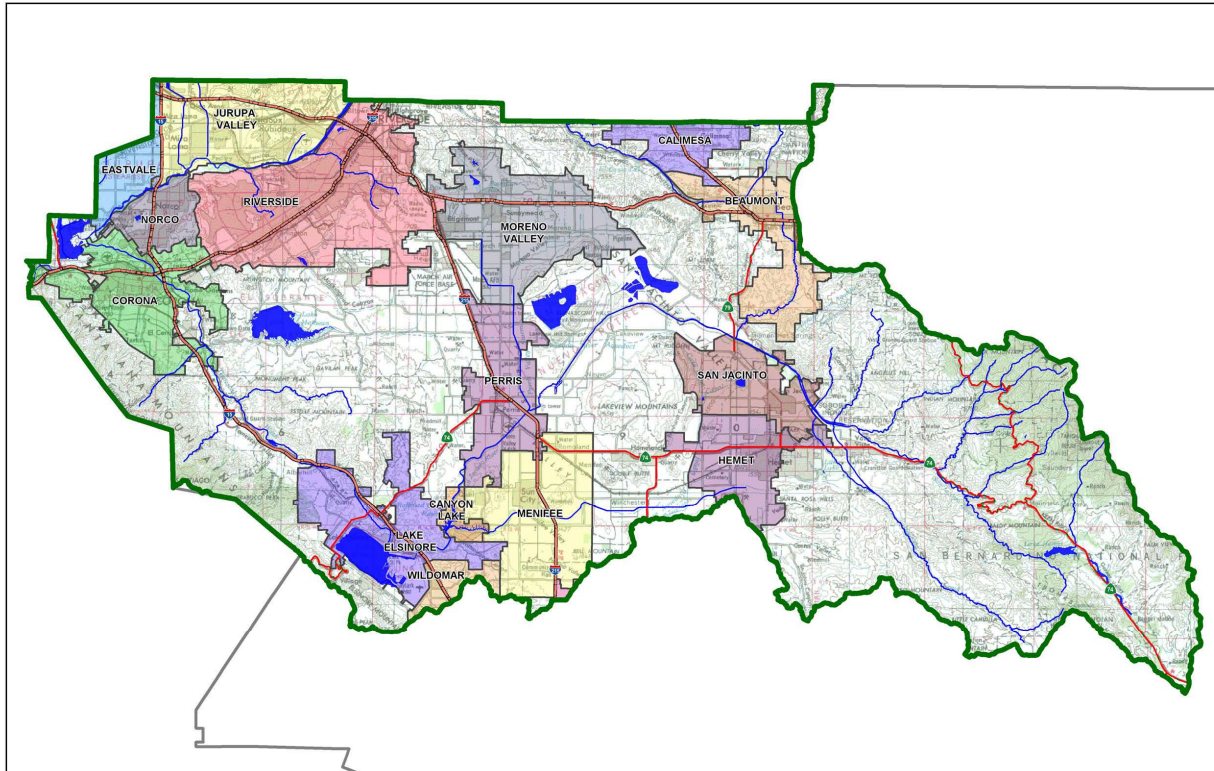
# Project Specific Water Quality Management Plan

A Template for Projects located within the **Santa Ana Watershed** Region of Riverside County

**Project Title:** 25840 IDYLLWILD HIGHWAY

**Development No:** TBD

**Design Review/Case No:** CUP190065



## Contact Information:

**Prepared for:**  
Rustic Rentals, LLC  
P.O. Box 243  
Idyllwild, CA 92549

**Prepared by:**  
Sitetech, Inc.  
8061 Church Street  
P.O. Box 592  
Highland, CA 92346

- Preliminary
- Final

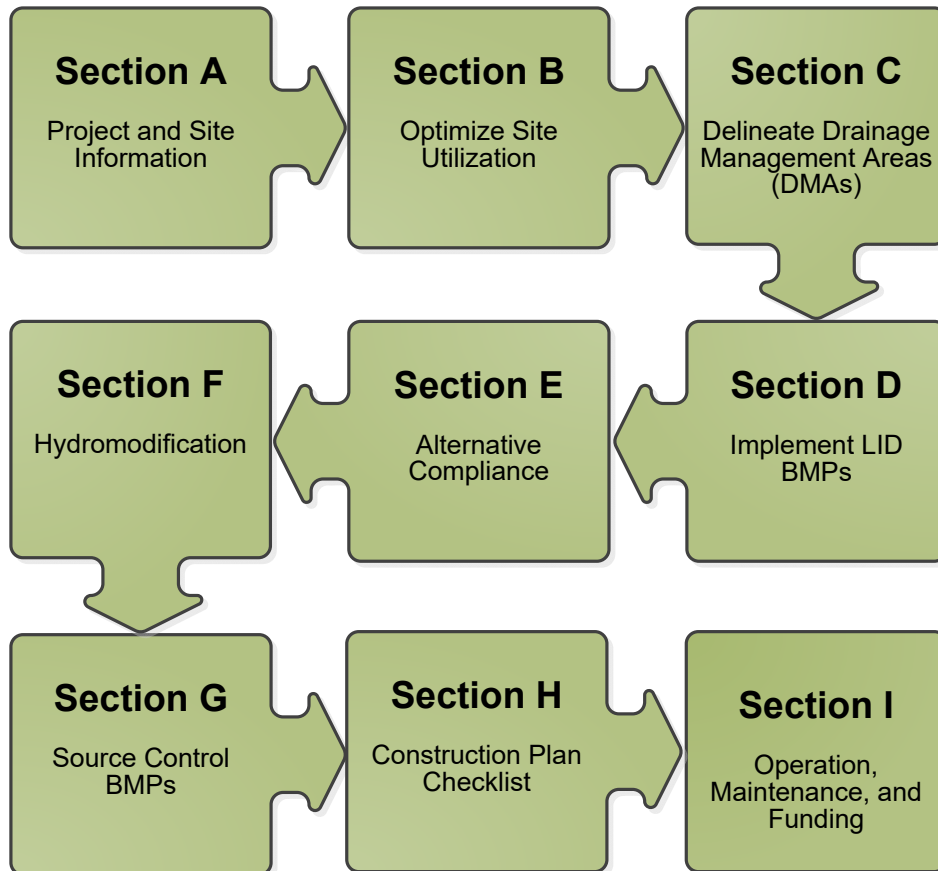
**Original Date Prepared:** February 2021

**Revision Date(s):** #1 - May 2021  
#2 – July 2021  
#3 – August 2021

*Prepared for Compliance with*  
*Regional Board Order No. **R8-2010-0033***  
**Template revised June 30, 2016**

## A Brief Introduction

This Project-Specific WQMP Template for the **Santa Ana Region** has been prepared to help guide you in documenting compliance for your project. Because this document has been designed to specifically document compliance, you will need to utilize the WQMP Guidance Document as your “how-to” manual to help guide you through this process. Both the Template and Guidance Document go hand-in-hand, and will help facilitate a well prepared Project-Specific WQMP. Below is a flowchart for the layout of this Template that will provide the steps required to document compliance.



## OWNER'S CERTIFICATION

This Project-Specific Water Quality Management Plan (WQMP) has been prepared for RUSTIC RENTALS, LLC by SITETECH INC. for the 25840 IDYLLWILD HIGHWAY project.

This WQMP is intended to comply with the requirements of RIVERSIDE COUNTY for COUNTY ORDINANCE NO. 754.2 which includes the requirement for the preparation and implementation of a Project-Specific WQMP.

The undersigned, while owning the property/project described in the preceding paragraph, shall be responsible for the implementation and funding of this WQMP and will ensure that this WQMP is amended as appropriate to reflect up-to-date conditions on the site. In addition, the property owner accepts responsibility for interim operation and maintenance of Stormwater BMPs until such time as this responsibility is formally transferred to a subsequent owner. This WQMP will be reviewed with the facility operator, facility supervisors, employees, tenants, maintenance and service contractors, or any other party (or parties) having responsibility for implementing portions of this WQMP. At least one copy of this WQMP will be maintained at the project site or project office in perpetuity. The undersigned is authorized to certify and to approve implementation of this WQMP. The undersigned is aware that implementation of this WQMP is enforceable under RIVERSIDE COUNTY Water Quality Ordinance (Municipal Code Section 754.2).

"I, the undersigned, certify under penalty of law that the provisions of this WQMP have been reviewed and accepted and that the WQMP will be transferred to future successors in interest."

\_\_\_\_\_  
Owner's Signature

\_\_\_\_\_  
Date

\_\_\_\_\_  
Owner's Printed Name

\_\_\_\_\_  
Owner's Title/Position

## PREPARER'S CERTIFICATION

"The selection, sizing and design of stormwater treatment and other stormwater quality and quantity control measures in this plan meet the requirements of Regional Water Quality Control Board Order No. **R8-2010-0033** and any subsequent amendments thereto."



\_\_\_\_\_  
Preparer's Signature

\_\_\_\_\_  
August 12, 2021

\_\_\_\_\_  
Date

\_\_\_\_\_  
**BERNHARD K. MAYER**

\_\_\_\_\_  
Preparer's Printed Name

\_\_\_\_\_  
**PRESIDENT**

\_\_\_\_\_  
Preparer's Title/Position

Preparer's Licensure:



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## Section A: Project and Site Information

PROJECT INFORMATION	
Type of Project:	Village Tourist
Planning Area:	MDR - Medium Density Residential
Community Name:	Idyllwild
Development Name:	25840 Idyllwild Highway
PROJECT LOCATION	
Latitude & Longitude (DMS): 33.749207°, -117.713442°	
Project Watershed and Sub-Watershed: Santa Ana River Watershed & San Jacinto River Subwatershed	
Gross Acres: 2.35	
APN(s): 563-250-028 and 563-250-031	
Map Book and Page No.: Roadbook Map, pg. no. 157	
PROJECT CHARACTERISTICS	
Proposed or Potential Land Use(s)	Lodging
Proposed or Potential SIC Code(s)	6531
Area of Impervious Project Footprint (SF)	64,147
Total Area of <u>proposed</u> Impervious Surfaces within the Project Footprint (SF)/or Replacement	41,866
Does the project consist of offsite road improvements?	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N
Does the project propose to construct unpaved roads?	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N
Is the project part of a larger common plan of development (phased project)?	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N
EXISTING SITE CHARACTERISTICS	
Total area of <u>existing</u> Impervious Surfaces within the Project limits Footprint (SF)	19,049
Is the project located within any MSHCP Criteria Cell?	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N
If so, identify the Cell number:	
Are there any natural hydrologic features on the project site?	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N
Is a Geotechnical Report attached?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
If no Geotech. Report, list the NRCS soils type(s) present on the site (A, B, C and/or D)	
What is the Water Quality Design Storm Depth for the project?	1.18

This project proposes to develop a portion of an existing 2.35 acre site in an unincorporated area in Riverside County. The site project is located along the easterly side of Idyllwild Highway between the intersecting streets of Jameson Drive (north) and Pine Crest Avenue (south).

The project proposes the construction of multiple rental buildings, landscaping, walls, infiltration trenches, drainage inlets and various hardscapes.

The proposed site can be broken down into two distinct drainage areas, DA1 and DA2.

DA1 consists of the southerly portion of the development. Stormwater generated from DA1 will sheet flow southwesterly to catch basins, storm drains and down drains where stormwater will be directed to an infiltration trench at the southwest portion of this drainage area. DA1 will have emergency overflow outlet located along Idyllwild Highway.

DA2 consists of the easterly portion of the development. Stormwater generated from DA2 will sheet flow southwesterly and catch basins and storm drains where stormwater will be directed to an infiltration trench at the southerly portion of this drainage area. DA2 will have emergency overflow outlet located along Oakwood Street.



## A.1 Maps and Site Plans

When completing your Project-Specific WQMP, include a map of the local vicinity and existing site. In addition, include all grading, drainage, landscape/plant palette and other pertinent construction plans in Appendix 2. At a **minimum**, your WQMP Site Plan should include the following:

- Drainage Management Areas
- Proposed Structural BMPs
- Drainage Path
- Drainage Infrastructure, Inlets, Overflows
- Source Control BMPs
- Buildings, Roof Lines, Downspouts
- Impervious Surfaces
- Standard Labeling
- BMP Locations (Lat/Long)

Use your discretion on whether or not you may need to create multiple sheets or can appropriately accommodate these features on one or two sheets. Keep in mind that the Co-Permittee plan reviewer must be able to easily analyze your project utilizing this template and its associated site plans and maps.

## A.2 Identify Receiving Waters

Using Table A.1 below, list in order of upstream to downstream, the receiving waters that the project site is tributary to. Continue to fill each row with the Receiving Water's 303(d) listed impairments (if any), designated beneficial uses, and proximity, if any, to a RARE beneficial use. Include a map of the receiving waters in Appendix 1.

**Table A.1** Identification of Receiving Waters

Receiving Waters	EPA Approved 303(d) List Impairments	Designated Beneficial Uses	Proximity to RARE Beneficial Use
Strawberry Creek	None	AGR, COLD, GWR, MUN, REC1, REC2, WILD	None
San Jacinto River (Reach 7)	None	AGR, COLD, GWR, MUN, REC1, REC2, WILD	None
San Jacinto River (Reach 6)	None	AGR, GWR, MUN, REC1, REC2, WARM, WILD	None
San Jacinto River (Reach 5)	None	AGR, GWR, REC1, REC2, WARM, WILD	None
San Jacinto River (Reach 4)	None	AGR, GWR, REC1, REC2, WARM, WILD	None
San Jacinto River (Reach 3)	None	AGR, GWR, REC1, REC2, WARM, WILD	None
San Jacinto River (Reach 2)	None	AGR, GWR, REC1, REC2, WARM, WILD	None
San Jacinto River (Reach 1)	None	AGR, GWR, REC1, REC2, WARM, WILD	None
Lake Elsinore	Nutrients, Organic, PCB, Sediment, Unknown Toxicity	REC1, REC2, Warm, Wild	None

### A.3 Additional Permits/Approvals required for the Project:

Table A.2 Other Applicable Permits

Agency	Permit Required	
State Department of Fish and Game, 1602 Streambed Alteration Agreement	<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N
State Water Resources Control Board, Clean Water Act (CWA) Section 401 Water Quality Cert.	<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N
US Army Corps of Engineers, CWA Section 404 Permit	<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N
US Fish and Wildlife, Endangered Species Act Section 7 Biological Opinion	<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N
Statewide Construction General Permit Coverage	<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N
Statewide Industrial General Permit Coverage (Dependent on Tenant)	<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N
Western Riverside MSHCP Consistency Approval (e.g., JPR, DBESP)	<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N
Other (please list in the space below as required) Riverside County Grading Permit	<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N
Other (please list in the space below as required) Riverside County Building Permit	<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N

If yes is answered to any of the questions above, the Co-Permittee may require proof of approval/coverage from those agencies as applicable including documentation of any associated requirements that may affect this Project-Specific WQMP.

## Section B: Optimize Site Utilization (LID Principles)

Review of the information collected in Section 'A' will aid in identifying the principal constraints on site design and selection of LID BMPs as well as opportunities to reduce imperviousness and incorporate LID Principles into the site and landscape design. For example, **constraints** might include impermeable soils, high groundwater, groundwater pollution or contaminated soils, steep slopes, geotechnical instability, high-intensity land use, heavy pedestrian or vehicular traffic, utility locations or safety concerns. **Opportunities** might include existing natural areas, low areas, oddly configured or otherwise unbuildable parcels, easements and landscape amenities including open space and buffers (which can double as locations for bioretention BMPs), and differences in elevation (which can provide hydraulic head). Prepare a brief narrative for each of the site optimization strategies described below. This narrative will help you as you proceed with your LID design and explain your design decisions to others.

The 2010 Santa Ana MS4 Permit further requires that LID Retention BMPs (Infiltration Only or Harvest and Use) be used unless it can be shown that those BMPs are infeasible. Therefore, it is important that your narrative identify and justify if there are any constraints that would prevent the use of those categories of LID BMPs. Similarly, you should also note opportunities that exist which will be utilized during project design. Upon completion of identifying Constraints and Opportunities, include these on your WQMP Site plan in Appendix 1.

Consideration of "highest and best use" of the discharge should also be considered. For example, Lake Elsinore is evaporating faster than runoff from natural precipitation can recharge it. Requiring infiltration of 85% of runoff events for projects tributary to Lake Elsinore would only exacerbate current water quality problems associated with Pollutant concentration due to lake water evaporation. In cases where rainfall events have low potential to recharge Lake Elsinore (i.e. no hydraulic connection between groundwater to Lake Elsinore, or other factors), requiring infiltration of Urban Runoff from projects is counterproductive to the overall watershed goals. Project proponents, in these cases, would be allowed to discharge Urban Runoff, provided they used equally effective filtration-based BMPs.

### Site Optimization

The following questions are based upon Section 3.2 of the WQMP Guidance Document. Review of the WQMP Guidance Document will help you determine how best to optimize your site and subsequently identify opportunities and/or constraints, and document compliance.

Did you identify and preserve existing drainage patterns? If so, how? If not, why?

Yes. Existing stormwater runoff generally flows from northeast to southwest. The proposed drainage will hold the general drainage pattern by capturing runoff at the southwest portion of the development.

Did you identify and protect existing vegetation? If so, how? If not, why?

Yes. Construction activity will be limited to minimal limits and not to exceed beyond development area.

Did you identify and preserve natural infiltration capacity? If so, how? If not, why?

Yes. Natural infiltration capacity will be implemented by using proposed landscaping as self-treating areas and capturing and treating stormwater through infiltration trenches.

Did you identify and minimize impervious area? If so, how? If not, why?

Yes. The drive aisles, drive-thru and parking stalls are designed to minimum width and length requirements.

Did you identify and disperse runoff to adjacent pervious areas? If so, how? If not, why?

Yes. Roof drains will directly discharge into adjacent landscaped areas around proposed building.

## Section C: Delineate Drainage Management Areas (DMAs)

Utilizing the procedure in Section 3.3 of the WQMP Guidance Document which discusses the methods of delineating and mapping your project site into individual DMAs, complete Table C.1 below to appropriately categorize the types of classification (e.g., Type A, Type B, etc.) per DMA for your project site. Upon completion of this table, this information will then be used to populate and tabulate the corresponding tables for their respective DMA classifications.

**Table C.1 DMA Classifications**

DMA Name or ID	Surface Type(s) <sup>12</sup>	Area (Sq. Ft.)	DMA Type
D1	ROOF/CONC/ASPH/LS	39,163	D
D2	ROOF/CONC/ASPH/LS	23,897	D

<sup>1</sup>Reference Table 2-1 in the WQMP Guidance Document to populate this column

<sup>2</sup>If multi-surface provide back-up

**Table C.2 Type 'A', Self-Treating Areas**

DMA Name or ID	Area (Sq. Ft.)	Stabilization Type	Irrigation Type (if any)

**Table C.3 Type 'B', Self-Retaining Areas**

Self-Retaining Area				Type 'C' DMAs that are draining to the Self-Retaining Area		
DMA Name/ ID	Post-project surface type	Area (square feet)	Storm Depth (inches)	DMA Name / ID	[C] from Table C.4 =	Required Retention Depth (inches)
		[A]	[B]		[C]	[D]
N/A	N/A	N/A	N/A	N/A	N/A	N/A

$$[D] = [B] + \frac{[B] \cdot [C]}{[A]}$$

Table C.4 Type 'C', Areas that Drain to Self-Retaining Areas

DMA					Receiving Self-Retaining DMA		
DMA Name/ ID	Area (square feet)	Post-project surface type	Impervious fraction	Product	DMA name /ID	Area (square feet)	Ratio
	[A]		[B]	[C] = [A] x [B]		[D]	[C]/[D]
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Table C.5 Type 'D', Areas Draining to BMPs

DMA Name or ID	BMP Name or ID
D1	INFILTRATION TRENCH
D2	INFILTRATION TRENCH

*Note: More than one drainage management area can drain to a single LID BMP, however, one drainage management area may not drain to more than one BMP.*

## Section D: Implement LID BMPs

### D.1 Infiltration Applicability

Is there an approved downstream ‘Highest and Best Use’ for stormwater runoff (see discussion in Chapter 2.4.4 of the WQMP Guidance Document for further details)?  Y  N

If yes has been checked, Infiltration BMPs shall not be used for the site; proceed to section D.3

If no, continue working through this section to implement your LID BMPs. It is recommended that you contact your Co-Permittee to verify whether or not your project discharges to an approved downstream ‘Highest and Best Use’ feature.

### Geotechnical Report

A Geotechnical Report or Phase I Environmental Site Assessment may be required by the Co-permittee to confirm present and past site characteristics that may affect the use of Infiltration BMPs. In addition, the Co-Permittee, at their discretion, may not require a geotechnical report for small projects as described in Chapter 2 of the WQMP Guidance Document. If a geotechnical report has been prepared, include it in Appendix 3. In addition, if a Phase I Environmental Site Assessment has been prepared, include it in Appendix 4.

Is this project classified as a small project consistent with the requirements of Chapter 2 of the WQMP Guidance Document?  Y  N

### Infiltration Feasibility

Table D.1 below is meant to provide a simple means of assessing which DMAs on your site support Infiltration BMPs and is discussed in the WQMP Guidance Document in Chapter 2.4.5. Check the appropriate box for each question and then list affected DMAs as applicable. If additional space is needed, add a row below the corresponding answer.

Table D.1 Infiltration Feasibility

Does the project site...	YES	NO
...have any DMAs with a seasonal high groundwater mark shallower than 10 feet?		X
If Yes, list affected DMAs:		
...have any DMAs located within 100 feet of a water supply well?		X
If Yes, list affected DMAs:		
...have any areas identified by the geotechnical report as posing a public safety risk where infiltration of stormwater could have a negative impact?		X
If Yes, list affected DMAs:		
...have measured in-situ infiltration rates of less than 1.6 inches / hour?		X
If Yes, list affected DMAs:		
...have significant cut and/or fill conditions that would preclude in-situ testing of infiltration rates at the final infiltration surface?		X
If Yes, list affected DMAs:		
...geotechnical report identify other site-specific factors that would preclude effective and safe infiltration?		X
Describe here:		

If you answered “Yes” to any of the questions above for any DMA, Infiltration BMPs should not be used for those DMAs and you should proceed to the assessment for Harvest and Use below.

## D.2 Harvest and Use Assessment

Please check what applies:

- Reclaimed water will be used for the non-potable water demands for the project.
- Downstream water rights may be impacted by Harvest and Use as approved by the Regional Board (verify with the Copermittee).
- The Design Capture Volume will be addressed using Infiltration Only BMPs. In such a case, Harvest and Use BMPs are still encouraged, but it would not be required if the Design Capture Volume will be infiltrated or evapotranspired.

If any of the above boxes have been checked, Harvest and Use BMPs need not be assessed for the site. If none of the above criteria applies, follow the steps below to assess the feasibility of irrigation use, toilet use and other non-potable uses (e.g., industrial use).

### Irrigation Use Feasibility

Complete the following steps to determine the feasibility of harvesting stormwater runoff for Irrigation Use BMPs on your site:

Step 1: Identify the total area of irrigated landscape on the site, and the type of landscaping used.

*Total Area of Irrigated Landscape:*

*Type of Landscaping (Conservation Design or Active Turf):*

Step 2: Identify the planned total of all impervious areas on the proposed project from which runoff might be feasibly captured and stored for irrigation use. Depending on the configuration of buildings and other impervious areas on the site, you may consider the site as a whole, or parts of the site, to evaluate reasonable scenarios for capturing and storing runoff and directing the stored runoff to the potential use(s) identified in Step 1 above.

*Total Area of Impervious Surfaces:*

Step 3: Cross reference the Design Storm depth for the project site (see Exhibit A of the WQMP Guidance Document) with the left column of Table 2-3 in Chapter 2 to determine the minimum area of Effective Irrigated Area per Tributary Impervious Area (EIATIA).

*Enter your EIATIA factor:*

Step 4: Multiply the unit value obtained from Step 3 by the total of impervious areas from Step 2 to develop the minimum irrigated area that would be required.

*Minimum required irrigated area:*

Step 5: Determine if harvesting stormwater runoff for irrigation use is feasible for the project by comparing the total area of irrigated landscape (Step 1) to the minimum required irrigated area (Step 4).

<b>Minimum required irrigated area (Step 4)</b>	<b>Available Irrigated Landscape (Step 1)</b>



## Toilet Use Feasibility

Complete the following steps to determine the feasibility of harvesting stormwater runoff for toilet flushing uses on your site:

Step 1: Identify the projected total number of daily toilet users during the wet season, and account for any periodic shut downs or other lapses in occupancy:

*Projected Number of Daily Toilet Users:*

*Project Type:*

Step 2: Identify the planned total of all impervious areas on the proposed project from which runoff might be feasibly captured and stored for toilet use. Depending on the configuration of buildings and other impervious areas on the site, you may consider the site as a whole, or parts of the site, to evaluate reasonable scenarios for capturing and storing runoff and directing the stored runoff to the potential use(s) identified in Step 1 above.

*Total Area of Impervious Surfaces:*

Step 3: Enter the Design Storm depth for the project site (see Exhibit A) into the left column of Table 2-2 in Chapter 2 to determine the minimum number of toilet users per tributary impervious acre (TUTIA).

*Enter your TUTIA factor:*

Step 4: Multiply the unit value obtained from Step 3 by the total of impervious areas from Step 2 to develop the minimum number of toilet users that would be required.

*Minimum number of toilet users:*

Step 5: Determine if harvesting stormwater runoff for toilet flushing use is feasible for the project by comparing the Number of Daily Toilet Users (Step 1) to the minimum required number of toilet users (Step 4).

**Minimum required Toilet Users (Step 4)**

**Projected number of toilet users (Step 1)**

## Other Non-Potable Use Feasibility

Are there other non-potable uses for stormwater runoff on the site (e.g. industrial use)? See Chapter 2 of the Guidance for further information. If yes, describe below. If no, write N/A.

Step 1: Identify the projected average daily non-potable demand, in gallons per day, during the wet season and accounting for any periodic shut downs or other lapses in occupancy or operation.

*Average Daily Demand:*

Step 2: Identify the planned total of all impervious areas on the proposed project from which runoff might be feasibly captured and stored for the identified non-potable use. Depending on the configuration of buildings and other impervious areas on the site, you may consider the site as a whole, or parts of the site, to evaluate reasonable scenarios for capturing and storing runoff and directing the stored runoff to the potential use(s) identified in Step 1 above.

*Total Area of Impervious Surfaces:*

Step 3: Enter the Design Storm depth for the project site (see Exhibit A) into the left column of Table 2-4 in Chapter 2 to determine the minimum demand for non-potable uses per tributary impervious acre.

*Enter the factor from Table 2-4:*

Step 4: Multiply the unit value obtained from Step 3 by the total of impervious areas from Step 2 to develop the minimum number of gallons per day of non-potable use that would be required.

*Minimum required use:*

Step 5: Determine if harvesting stormwater runoff for other non-potable use is feasible for the project by comparing the projected average daily use (Step 1) to the minimum required non-potable use (Step 4).

<b>Minimum required non-potable use (Step 4)</b>	<b>Projected average daily use (Step 1)</b>

If Irrigation, Toilet and Other Use feasibility anticipated demands are less than the applicable minimum values, Harvest and Use BMPs are not required and you should proceed to utilize LID Bioretention and Biotreatment per Section 3.4.2 of the WQMP Guidance Document.

### **D.3 Bioretention and Biotreatment Assessment**

Other LID Bioretention and Biotreatment BMPs as described in Chapter 2.4.7 of the WQMP Guidance Document are feasible on nearly all development sites with sufficient advance planning.

*Select one of the following:*

- LID Bioretention/Biotreatment BMPs will be used for some or all DMAs of the project as noted below in Section D.4 (note the requirements of Section 3.4.2 in the WQMP Guidance Document).
- A site-specific analysis demonstrating the technical infeasibility of all LID BMPs has been performed and is included in Appendix 5. If you plan to submit an analysis demonstrating the technical infeasibility of LID BMPs, request a pre-submittal meeting with the Copermittee to discuss this option. Proceed to Section E to document your alternative compliance measures.

## D.4 Feasibility Assessment Summaries

From the Infiltration, Harvest and Use, Bioretention and Biotreatment Sections above, complete Table D.2 below to summarize which LID BMPs are technically feasible, and which are not, based upon the established hierarchy.

Table D.2 LID Prioritization Summary Matrix

DMA Name/ID	LID BMP Hierarchy				No LID (Alternative Compliance)
	1. Infiltration	2. Harvest and use	3. Bioretention	4. Biotreatment	
DA 1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
DA 2	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

For those DMAs where LID BMPs are not feasible, provide a brief narrative below summarizing why they are not feasible, include your technical infeasibility criteria in Appendix 5, and proceed to Section E below to document Alternative Compliance measures for those DMAs. Recall that each proposed DMA must pass through the LID BMP hierarchy before alternative compliance measures may be considered.

\*Drainage areas will treat stormwater through infiltration trenches\*

## D.5 LID BMP Sizing

Each LID BMP must be designed to ensure that the Design Capture Volume will be addressed by the selected BMPs. First, calculate the Design Capture Volume for each LID BMP using the  $V_{BMP}$  worksheet in Appendix F of the LID BMP Design Handbook. Second, design the LID BMP to meet the required  $V_{BMP}$  using a method approved by the Copermittee. Utilize the worksheets found in the LID BMP Design Handbook or consult with your Copermittee to assist you in correctly sizing your LID BMPs. Complete Table D.3 below to document the Design Capture Volume and the Proposed Volume for each LID BMP. Provide the completed design procedure sheets for each LID BMP in Appendix 6. You may add additional rows to the table below as needed.

### DA1

Table D.3 DCV Calculations for LID BMPs

DMA Type/ID	DMA Area (square feet)	Post-Project Surface Type	Effective Impervious Fraction, $I_f$	DMA Runoff Factor	DMA Areas x Runoff Factor	Enter BMP Name / Identifier Here					
						DA1 Infiltration Chambers / BMP 1					
	[A]		[B]	[C]	[A] x [C]	Design Storm Depth (in)	Design Capture Volume, $V_{BMP}$ (cubic feet)	Proposed Volume on Plans (cubic feet)			
DMA 1a	7,173	Landscaping	0.1	0.11	789						
DMA 1b	18,188	Roofs	1.0	0.89	16,224						
DMA 1c	20,975	Conc/Asph	1.0	0.89	18,710						
	$A_T = \Sigma[A]$ 46,336				$\Sigma = [D]$ 35,723	[E] 1.18	$[F] = \frac{[D] \times [E]}{12}$ 3,513	[G] 3,568			

[B], [C] is obtained as described in Section 2.3.1 of the WQMP Guidance Document

[E] is obtained from Exhibit A in the WQMP Guidance Document

[G] is obtained from a design procedure sheet, such as in LID BMP Design Handbook and placed in Appendix 6

## DA2

Table D.4 DCV Calculations for LID BMPs

DMA Type/ID	DMA Area (square feet)	Post-Project Surface Type	Effective Impervious Fraction, $I_f$	DMA Runoff Factor	DMA Areas x Runoff Factor	Enter BMP Name / Identifier Here DA2 Infiltration Chambers / BMP 2		
	[A]		[B]	[C]	[A] x [C]			
DMA 1a	2145	Landscaping	0.1	0.11	236	Design Storm Depth (in)	Design Capture Volume, $V_{BMP}$ (cubic feet)	Proposed Volume on Plans (cubic feet)
DMA 1b	10360	Roofs	1.0	0.89	9241			
DMA 1c	11392	Conc/Asph	1.0	0.89	10,161			
	$A_T = \Sigma[A]$ 23897				$\Sigma = [D]$ 19,638	[E] 1.18	$[F] = \frac{[D] \times [E]}{12}$ 1,931	[G] 2,148

[B], [C] is obtained as described in Section 2.3.1 of the WQMP Guidance Document

[E] is obtained from Exhibit A in the WQMP Guidance Document

[G] is obtained from a design procedure sheet, such as in LID BMP Design Handbook and placed in Appendix 6

## Section E: Alternative Compliance (LID Waiver Program)

LID BMPs are expected to be feasible on virtually all projects. Where LID BMPs have been demonstrated to be infeasible as documented in Section D, other Treatment Control BMPs must be used (subject to LID waiver approval by the Copermittee). Check one of the following Boxes:

LID Principles and LID BMPs have been incorporated into the site design to fully address all Drainage Management Areas. No alternative compliance measures are required for this project and thus this Section is not required to be completed.

- Or -

The following Drainage Management Areas are unable to be addressed using LID BMPs. A site-specific analysis demonstrating technical infeasibility of LID BMPs has been approved by the Co-Permittee and included in Appendix 5. Additionally, no downstream regional and/or sub-regional LID BMPs exist or are available for use by the project. The following alternative compliance measures on the following pages are being implemented to ensure that any pollutant loads expected to be discharged by not incorporating LID BMPs, are fully mitigated.

## E.1 Identify Pollutants of Concern

Utilizing Table A.1 from Section A above which noted your project's receiving waters and their associated EPA approved 303(d) listed impairments, cross reference this information with that of your selected Priority Development Project Category in Table E.1 below. If the identified General Pollutant Categories are the same as those listed for your receiving waters, then these will be your Pollutants of Concern and the appropriate box or boxes will be checked on the last row. The purpose of this is to document compliance and to help you appropriately plan for mitigating your Pollutants of Concern in lieu of implementing LID BMPs.

**Table E.1 Potential Pollutants by Land Use Type**

Priority Development Project Categories and/or Project Features (check those that apply)	General Pollutant Categories							
	Bacterial Indicators	Metals	Nutrients	Pesticides	Toxic Organic Compounds	Sediments	Trash & Debris	Oil & Grease
<input type="checkbox"/> Detached Residential Development	P	N	P	P	N	P	P	P
<input checked="" type="checkbox"/> Attached Residential Development	P	N	P	P	N	P	P	P <sup>(2)</sup>
<input type="checkbox"/> Commercial/Industrial Development	P <sup>(3)</sup>	P	P <sup>(1)</sup>	P <sup>(1)</sup>	P <sup>(5)</sup>	P <sup>(1)</sup>	P	P
<input type="checkbox"/> Automotive Repair Shops	N	P	N	N	P <sup>(4, 5)</sup>	N	P	P
<input type="checkbox"/> Restaurants (>5,000 ft <sup>2</sup> )	P	N	N	N	N	N	P	P
<input checked="" type="checkbox"/> Hillside Development (>5,000 ft <sup>2</sup> )	P	N	P	P	N	P	P	P
<input checked="" type="checkbox"/> Parking Lots (>5,000 ft <sup>2</sup> )	P <sup>(6)</sup>	P	P <sup>(1)</sup>	P <sup>(1)</sup>	P <sup>(4)</sup>	P <sup>(1)</sup>	P	P
<input type="checkbox"/> Retail Gasoline Outlets	N	P	N	N	P	N	P	P
<b>Project Priority Pollutant(s) of Concern</b>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

*P = Potential*

*N = Not Potential*

<sup>(1)</sup> A potential Pollutant if non-native landscaping exists or is proposed onsite; otherwise not expected

<sup>(2)</sup> A potential Pollutant if the project includes uncovered parking areas; otherwise not expected

<sup>(3)</sup> A potential Pollutant is land use involving animal waste

<sup>(4)</sup> Specifically petroleum hydrocarbons

<sup>(5)</sup> Specifically solvents

<sup>(6)</sup> Bacterial indicators are routinely detected in pavement runoff

## E.2 Stormwater Credits

Projects that cannot implement LID BMPs but nevertheless implement smart growth principles are potentially eligible for Stormwater Credits. Utilize Table 3-8 within the WQMP Guidance Document to identify your Project Category and its associated Water Quality Credit. If not applicable, write N/A.

Table E.2 Water Quality Credits

Qualifying Project Categories	Credit Percentage <sup>2</sup>
Total Credit Percentage <sup>1</sup>	

<sup>1</sup>Cannot Exceed 50%

<sup>2</sup>Obtain corresponding data from Table 3-8 in the WQMP Guidance Document

## E.3 Sizing Criteria

After you appropriately considered Stormwater Credits for your project, utilize Table E.3 below to appropriately size them to the DCV, or Design Flow Rate, as applicable. Please reference Chapter 3.5.2 of the WQMP Guidance Document for further information.

Table E.3 Treatment Control BMP Sizing

DMA Type/ID	DMA Area (square feet)	Post-Project Surface Type	Effective Impervious Fraction, I <sub>f</sub>	DMA Runoff Factor	DMA Area x Runoff Factor	Enter BMP Name / Identifier Here			
	[A]		[B]	[C]	[A] x [C]				
						Design Storm Depth (in)	Minimum Design Capture Volume or Design Flow Rate (cubic feet or cfs)	Total Storm Water Credit % Reduction	Proposed Volume or Flow on Plans (cubic feet or cfs)
	$A_T = \sum[A]$			$\Sigma = [D]$	[E]	$[F] = \frac{[D] \times [E]}{[G]}$	$[F] \times (1-[H])$	[I]	

[B], [C] is obtained as described in Section 2.3.1 from the WQMP Guidance Document

[E] is for Flow-Based Treatment Control BMPs [E] = .2, for Volume-Based Control Treatment BMPs, [E] obtained from Exhibit A in the WQMP Guidance Document

[G] is for Flow-Based Treatment Control BMPs [G] = 43,560, for Volume-Based Control Treatment BMPs, [G] = 12

[H] is from the Total Credit Percentage as Calculated from Table E.2 above

[I] as obtained from a design procedure sheet from the BMP manufacturer and should be included in Appendix 6



## E.4 Treatment Control BMP Selection

Treatment Control BMPs typically provide proprietary treatment mechanisms to treat potential pollutants in runoff, but do not sustain significant biological processes. Treatment Control BMPs must have a removal efficiency of a medium or high effectiveness as quantified below:

- **High:** equal to or greater than 80% removal efficiency
- **Medium:** between 40% and 80% removal efficiency

Such removal efficiency documentation (e.g., studies, reports, etc.) as further discussed in Chapter 3.5.2 of the WQMP Guidance Document, must be included in Appendix 6. In addition, ensure that proposed Treatment Control BMPs are properly identified on the WQMP Site Plan in Appendix 1.

**Table E.4 Treatment Control BMP Selection**

Selected Treatment Control BMP Name or ID <sup>1</sup>	Priority Pollutant(s) of Concern to Mitigate <sup>2</sup>	Removal Efficiency Percentage <sup>3</sup>

<sup>1</sup> Treatment Control BMPs must not be constructed within Receiving Waters. In addition, a proposed Treatment Control BMP may be listed more than once if they possess more than one qualifying pollutant removal efficiency.

<sup>2</sup> Cross Reference Table E.1 above to populate this column.

<sup>3</sup> As documented in a Co-Permittee Approved Study and provided in Appendix 6.

## Section F: Hydromodification

### F.1 Hydrologic Conditions of Concern (HCOC) Analysis

Once you have determined that the LID design is adequate to address water quality requirements, you will need to assess if the proposed LID Design may still create a HCOC. Review Chapters 2 and 3 (including Figure 3-7) of the WQMP Guidance Document to determine if your project must mitigate for Hydromodification impacts. If your project meets one of the following criteria which will be indicated by the check boxes below, you do not need to address Hydromodification at this time. However, if the project does not qualify for Exemptions 1, 2 or 3, then additional measures must be added to the design to comply with HCOC criteria. This is discussed in further detail below in Section F.2.

**HCOC EXEMPTION 1:** The Priority Development Project disturbs less than one acre. The Copermitttee has the discretion to require a Project-Specific WQMP to address HCOCs on projects less than one acre on a case by case basis. The disturbed area calculation should include all disturbances associated with larger common plans of development.

Does the project qualify for this HCOC Exemption?       Y     N

If Yes, HCOC criteria do not apply.

**HCOC EXEMPTION 2:** The volume and time of concentration<sup>1</sup> of storm water runoff for the post-development condition is not significantly different from the pre-development condition for a 2-year return frequency storm (a difference of 5% or less is considered insignificant) using one of the following methods to calculate:

- Riverside County Hydrology Manual
- Technical Release 55 (TR-55): Urban Hydrology for Small Watersheds (NRCS 1986), or derivatives thereof, such as the Santa Barbara Urban Hydrograph Method
- Other methods acceptable to the Co-Permittee

Does the project qualify for this HCOC Exemption?       Y     N

If Yes, report results in Table F.1 below and provide your substantiated hydrologic analysis in Appendix 7.

**Table F.1** Hydrologic Conditions of Concern Summary

	2 year – 24 hour		
	Pre-condition	Post-condition	% Difference
<b>Time of Concentration</b>			
<b>Volume (Cubic Feet)</b>			

<sup>1</sup> Time of concentration is defined as the time after the beginning of the rainfall when all portions of the drainage trench are contributing to flow at the outlet.

**HCOC EXEMPTION 3:** All downstream conveyance channels to an adequate sump (for example, Prado Dam, Lake Elsinore, Canyon Lake, Santa Ana River, or other lake, reservoir or naturally erosion resistant feature) that will receive runoff from the project are engineered and regularly maintained to ensure design flow capacity; no sensitive stream habitat areas will be adversely affected; or are not identified on the Co-Permittees Hydromodification Susceptibility Maps.

Does the project qualify for this HCOC Exemption?       Y       N

If Yes, HCOC criteria do not apply and note below which adequate sump applies to this HCOC qualifier:

## F.2 HCOC Mitigation

If none of the above HCOC Exemption Criteria are applicable, HCOC criteria is considered mitigated if they meet one of the following conditions:

- a. Additional LID BMPS are implemented onsite or offsite to mitigate potential erosion or habitat impacts as a result of HCOCs. This can be conducted by an evaluation of site-specific conditions utilizing accepted professional methodologies published by entities such as the California Stormwater Quality Association (CASQA), the Southern California Coastal Water Research Project (SCCRWP), or other Co-Permittee approved methodologies for site-specific HCOC analysis.
- b. The project is developed consistent with an approved Watershed Action Plan that addresses HCOC in Receiving Waters.
- c. Mimicking the pre-development hydrograph with the post-development hydrograph, for a 2-year return frequency storm. Generally, the hydrologic conditions of concern are not significant, if the post-development hydrograph is no more than 10% greater than pre-development hydrograph. In cases where excess volume cannot be infiltrated or captured and reused, discharge from the site must be limited to a flow rate no greater than 110% of the pre-development 2-year peak flow.

Be sure to include all pertinent documentation used in your analysis of the items a, b or c in Appendix 7.

**SEE DRAINAGE STUDY (APPENDIX 7) FOR HCOC MITIGATION CALCULATIONS**

## Section G: Source Control BMPs

Source control BMPs include permanent, structural features that may be required in your project plans — such as roofs over and berms around trash and recycling areas — and Operational BMPs, such as regular sweeping and “housekeeping”, that must be implemented by the site’s occupant or user. The MEP standard typically requires both types of BMPs. In general, Operational BMPs cannot be substituted for a feasible and effective permanent BMP. Using the Pollutant Sources/Source Control Checklist in Appendix 8, review the following procedure to specify Source Control BMPs for your site:

1. **Identify Pollutant Sources:** Review Column 1 in the Pollutant Sources/Source Control Checklist. Check off the potential sources of Pollutants that apply to your site.
2. **Note Locations on Project-Specific WQMP Exhibit:** Note the corresponding requirements listed in Column 2 of the Pollutant Sources/Source Control Checklist. Show the location of each Pollutant source and each permanent Source Control BMP in your Project-Specific WQMP Exhibit located in Appendix 1.
3. **Prepare a Table and Narrative:** Check off the corresponding requirements listed in Column 3 in the Pollutant Sources/Source Control Checklist. In the left column of Table G.1 below, list each potential source of runoff Pollutants on your site (from those that you checked in the Pollutant Sources/Source Control Checklist). In the middle column, list the corresponding permanent, Structural Source Control BMPs (from Columns 2 and 3 of the Pollutant Sources/Source Control Checklist) used to prevent Pollutants from entering runoff. **Add additional narrative** in this column that explains any special features, materials or methods of construction that will be used to implement these permanent, Structural Source Control BMPs.
4. **Identify Operational Source Control BMPs:** To complete your table, refer once again to the Pollutant Sources/Source Control Checklist. List in the right column of your table the Operational BMPs that should be implemented as long as the anticipated activities continue at the site. Copermittee stormwater ordinances require that applicable Source Control BMPs be implemented; the same BMPs may also be required as a condition of a use permit or other revocable Discretionary Approval for use of the site.

**Table G.1** Permanent and Operational Source Control Measures

Potential Sources of Runoff pollutants	Permanent Structural Source Control BMPs	Operational Source Control BMPs
Trash & Debris	Trash Enclosure Roof & Cover	Weekly Sweeping & Housekeeping
Oils & Greases	Infiltration Trench	Weekly Inspection of Parking Lots
Sediment	Infiltration Trench	Weekly Sweeping
Metals	Infiltration Trench	
Bacteria & Viruses	Infiltration Trench	
Nutrients	Infiltration Trench	
Oxygen Demanding Substances	Infiltration Trench	

## Section H: Construction Plan Checklist

Populate Table H.1 below to assist the plan checker in an expeditious review of your project. The first two columns will contain information that was prepared in previous steps, while the last column will be populated with the corresponding plan sheets. This table is to be completed with the submittal of your final Project-Specific WQMP.

**Table H.1** Construction Plan Cross-reference

BMP No. or ID	BMP Identifier and Description	Corresponding Plan Sheet(s)	BMP Location (Lat/Long)
TBD	TBD	TBD ON FINAL WQMP	TBD ON FINAL WQMP

Note that the updated table — or Construction Plan WQMP Checklist — is **only a reference tool** to facilitate an easy comparison of the construction plans to your Project-Specific WQMP. Co-Permittee staff can advise you regarding the process required to propose changes to the approved Project-Specific WQMP.

**\*\*\*This will be completed and addressed at the time of the final WQMP Submittal\*\*\***

## Section I: Operation, Maintenance and Funding

The Copermittee will periodically verify that Stormwater BMPs on your site are maintained and continue to operate as designed. To make this possible, your Copermittee will require that you include in Appendix 9 of this Project-Specific WQMP:

1. A means to finance and implement facility maintenance in perpetuity, including replacement cost.
2. Acceptance of responsibility for maintenance from the time the BMPs are constructed until responsibility for operation and maintenance is legally transferred. A warranty covering a period following construction may also be required.
3. An outline of general maintenance requirements for the Stormwater BMPs you have selected.
4. Figures delineating and designating pervious and impervious areas, location, and type of Stormwater BMP, and tables of pervious and impervious areas served by each facility. Geo-locating the BMPs using a coordinate system of latitude and longitude is recommended to help facilitate a future statewide database system.
5. A separate list and location of self-retaining areas or areas addressed by LID Principles that do not require specialized O&M or inspections but will require typical landscape maintenance as noted in Chapter 5, pages 85-86, in the WQMP Guidance. Include a brief description of typical landscape maintenance for these areas.

Your local Co-Permittee will also require that you prepare and submit a detailed Stormwater BMP Operation and Maintenance Plan that sets forth a maintenance schedule for each of the Stormwater BMPs built on your site. An agreement assigning responsibility for maintenance and providing for inspections and certification may also be required.

Details of these requirements and instructions for preparing a Stormwater BMP Operation and Maintenance Plan are in Chapter 5 of the WQMP Guidance Document.

### Maintenance Mechanism:

Will the proposed BMPs be maintained by a Home Owners' Association (HOA) or Property Owners Association (POA)?

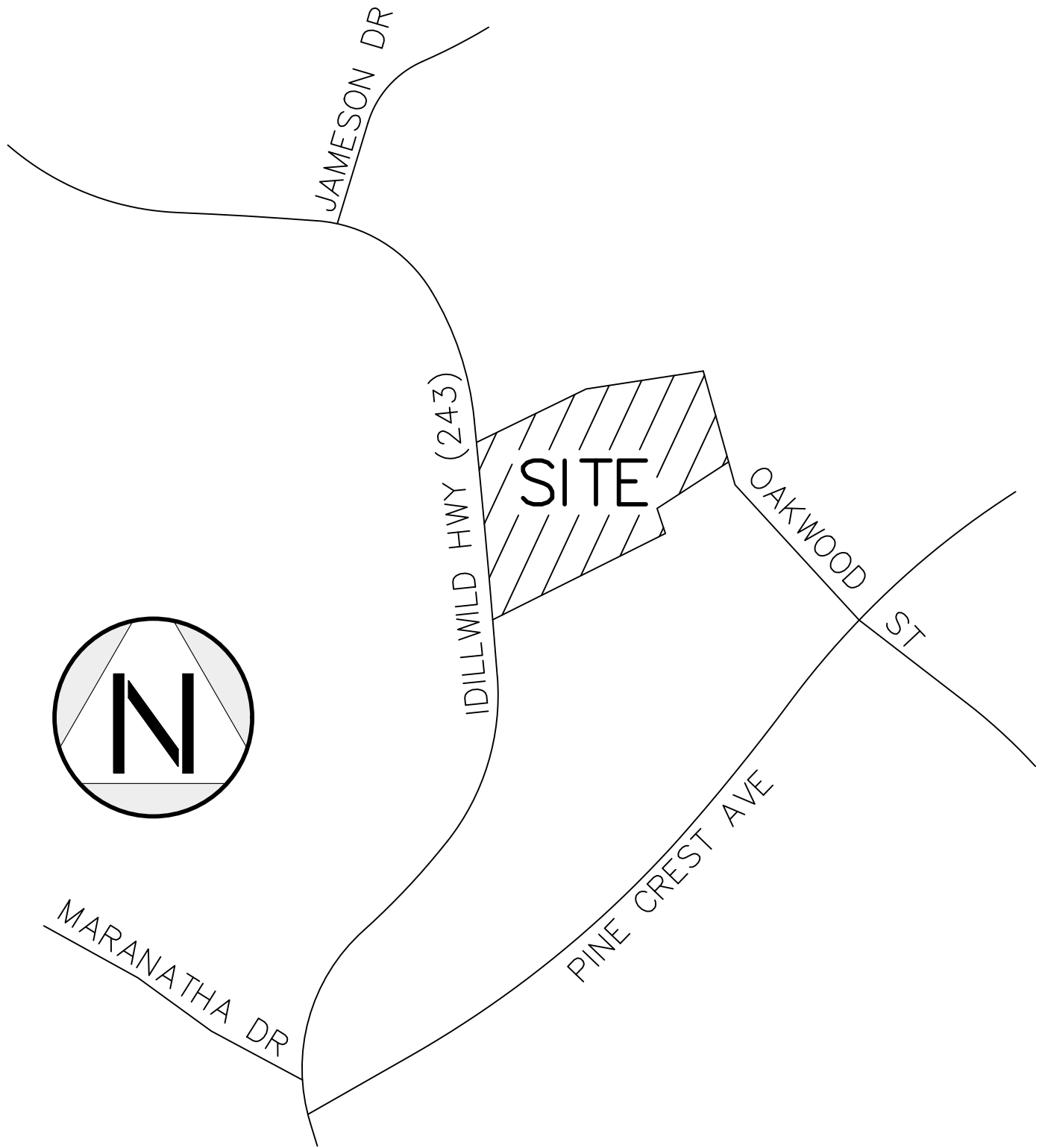
Y       N

Include your Operation and Maintenance Plan and Maintenance Mechanism in Appendix 9. Additionally, include all pertinent forms of educational materials for those personnel that will be maintaining the proposed BMPs within this Project-Specific WQMP in Appendix 10.

**\*\*\*This will be completed and addressed at the time of the final WQMP Submittal\*\*\***

# Appendix 1: Maps and Site Plans

*Location Map, WQMP Site Plan and Receiving Waters Map*



THOMAS BROTHERS GUIDE: PG. 814/D6  
TOWNSHIP 5S, RANGE 3E, SEC. 7, S.B.M.

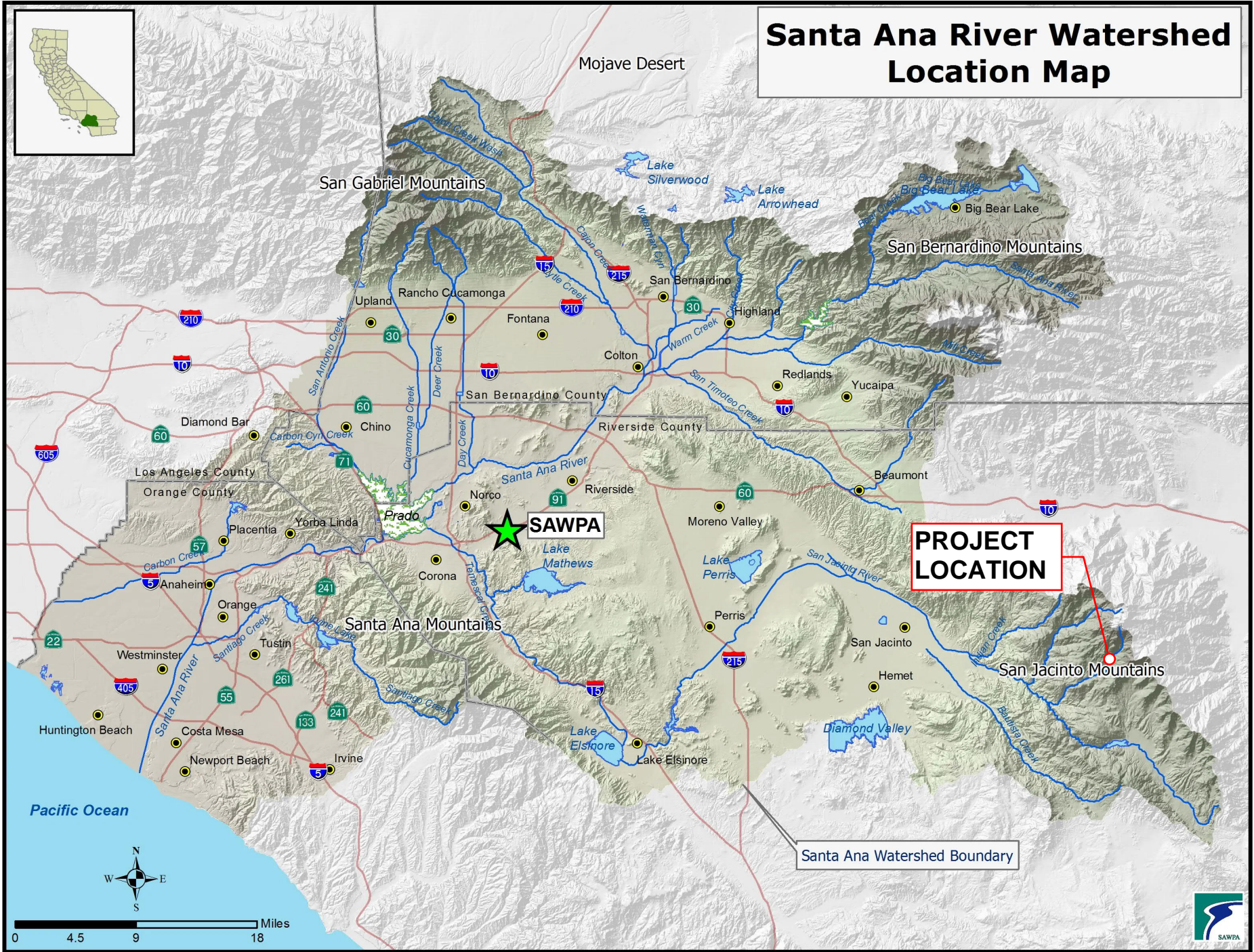
## VICINITY MAP

NO SCALE





# Santa Ana River Watershed Location Map



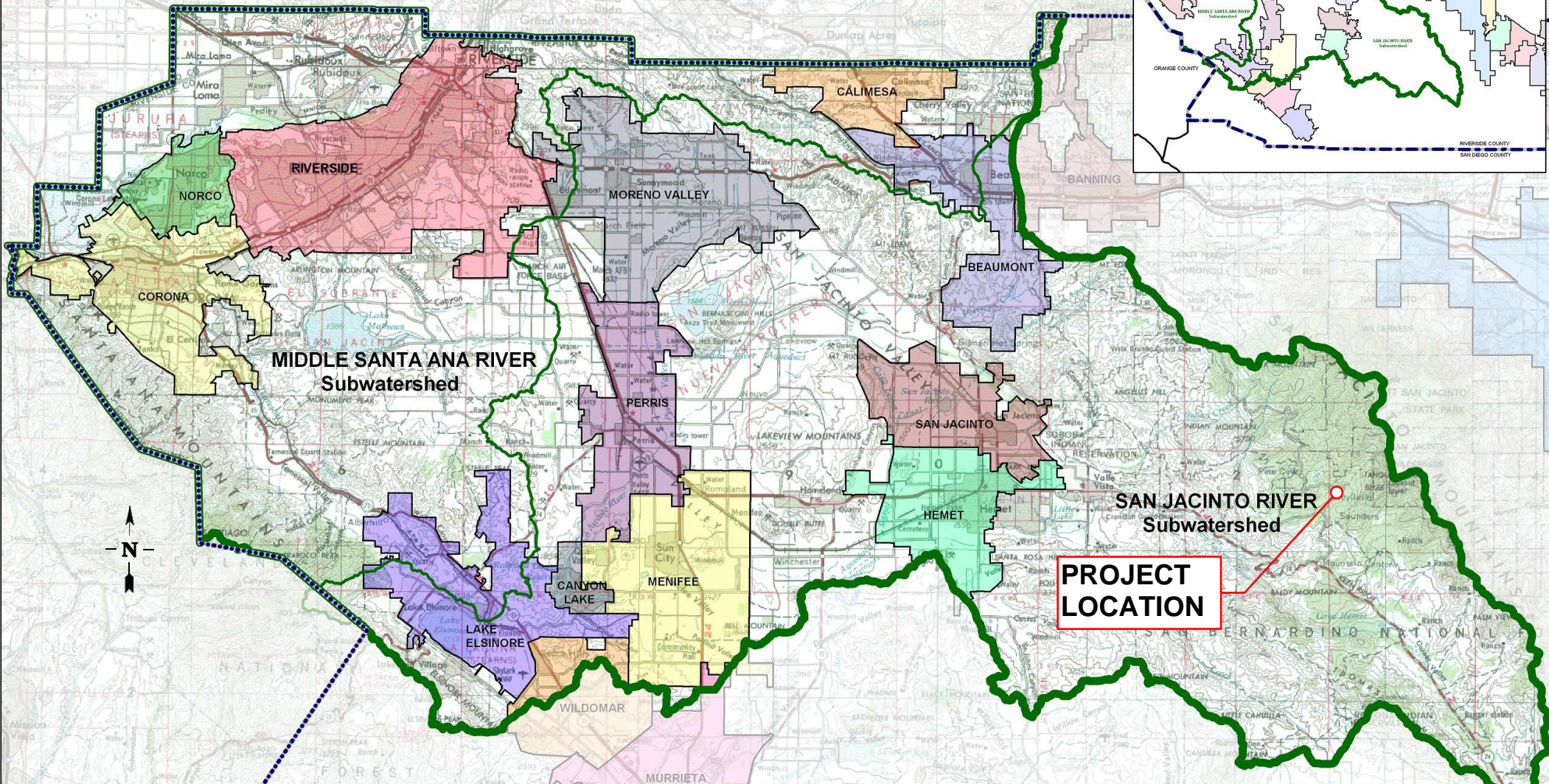
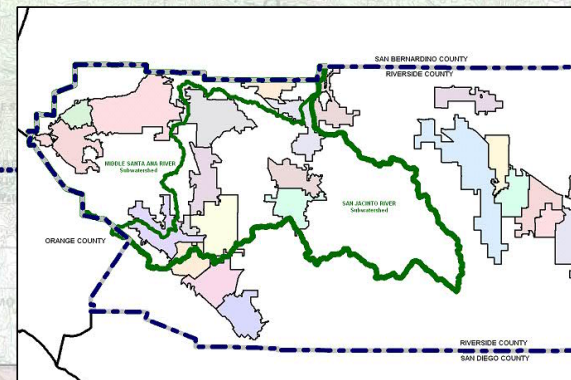
**PROJECT  
LOCATION**

**SAWPA**

Santa Ana Watershed Boundary



# SANTA ANA REGION of Riverside County



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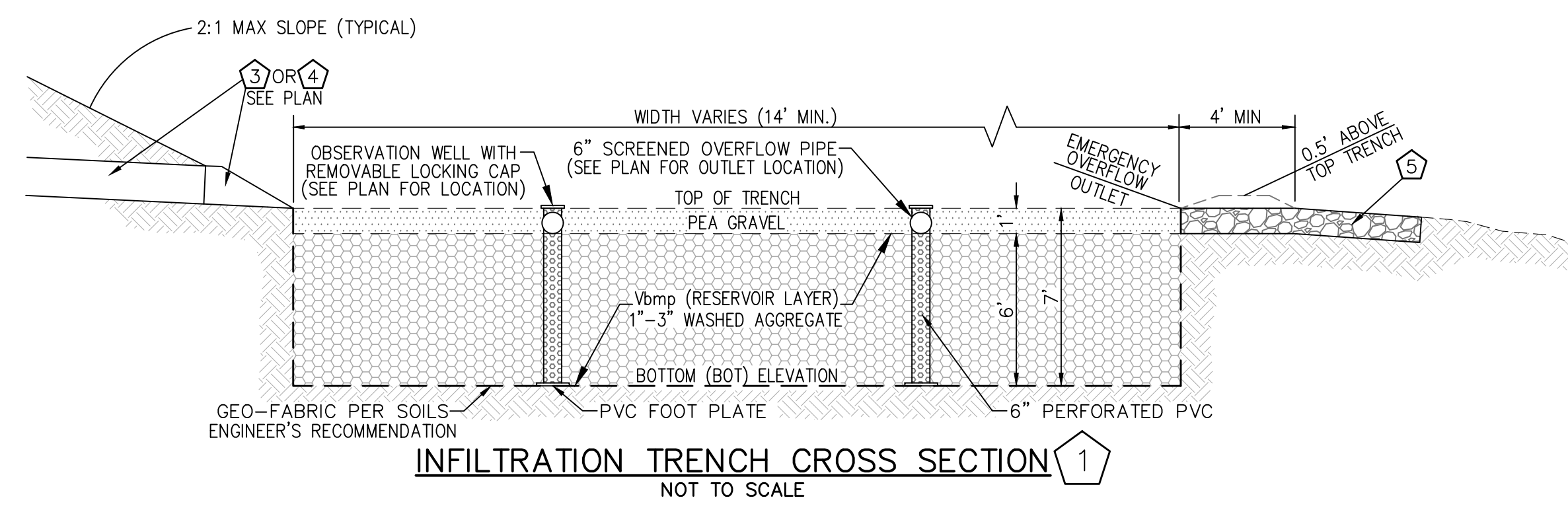
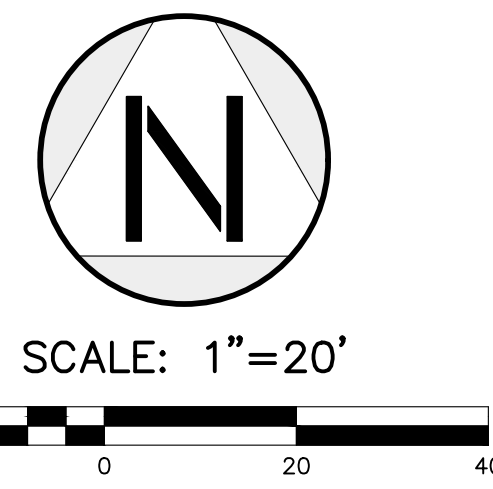
COUNTY OF RIVERSIDE  
**PRELIMINARY**  
**WATER QUALITY MANAGEMENT PLAN**  
**RUSTIC RENTALS, LLC**  
**PINEWOODS RESIDENCES**  
 25840 IDYLLWILD HIGHWAY  
 IDYLLWILD, CA

**OWNER—24 HOUR EMERGENCY CONTACT:**  
 MR. SHANE STEWART  
 RUSTIC RENTALS, LLC  
 P.O. BOX 243  
 IDYLLWILD, CA 92549  
 PH: (951) 659-9505

**SITE ADDRESS:**  
 25840 IDYLLWILD HIGHWAY  
 IDYLLWILD, CA 92549

THE OWNER IS RESPONSIBLE FOR IMPLEMENTING, INSPECTING, AND REPORTING OF THE SITE EROSION CONTROL PLAN REQUIREMENTS.

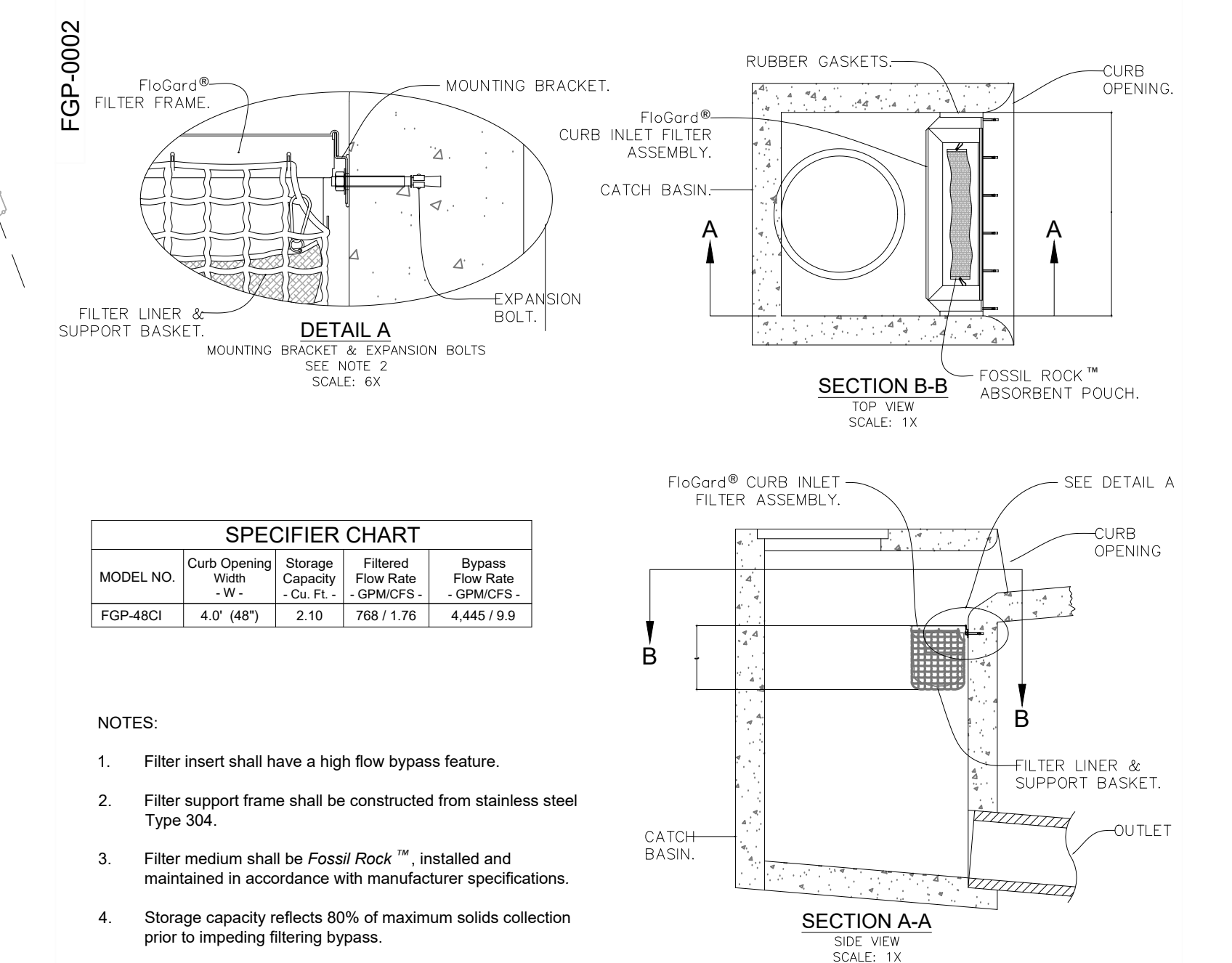
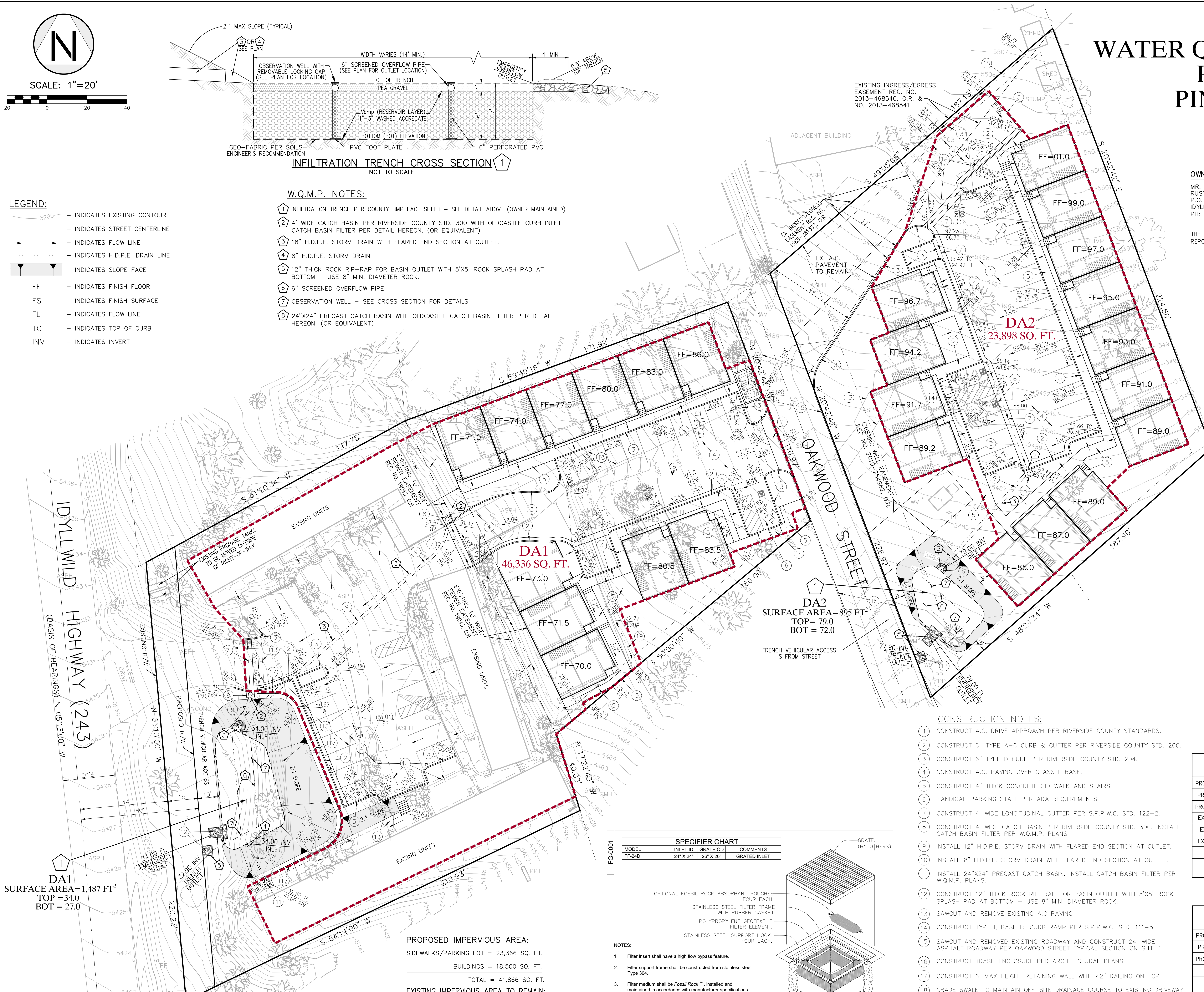
THOMAS BROTHERS GUIDE: PG. 814/D6  
 TOWNSHIP 5S, RANGE 3E, SEC. 7, S.B.M.  
**VICINITY MAP**  
 NO SCALE



- LEGEND:**
- - - - - INDICATES EXISTING CONTOUR
  - - - - - INDICATES STREET CENTERLINE
  - - - - - INDICATES FLOW LINE
  - - - - - INDICATES H.D.P.E. DRAIN LINE
  - - - - - INDICATES SLOPE FACE
  - FF - INDICATES FINISH FLOOR
  - FS - INDICATES FINISH SURFACE
  - FL - INDICATES FLOW LINE
  - TC - INDICATES TOP OF CURB
  - INV - INDICATES INVERT

**W.Q.M.P. NOTES:**

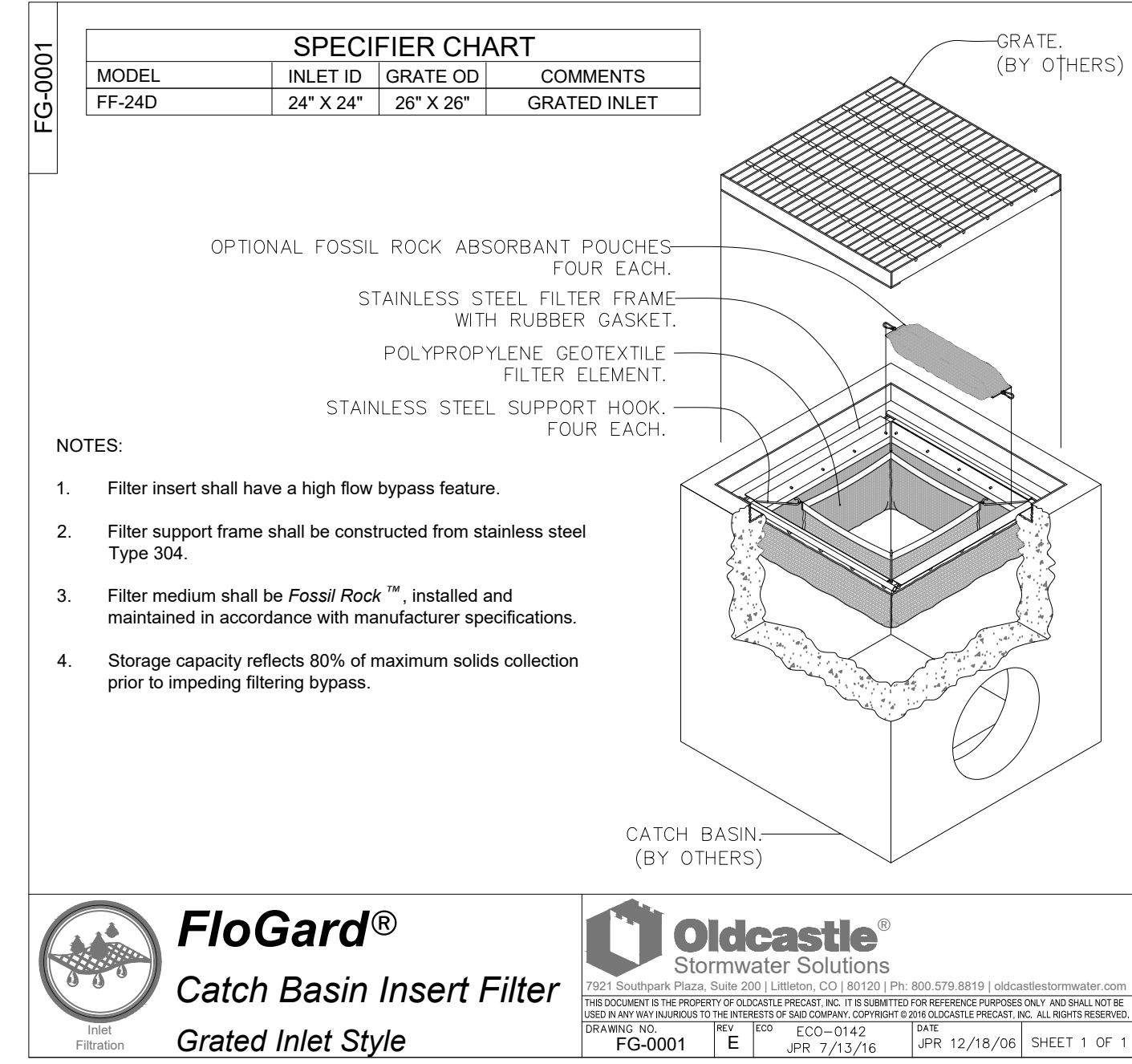
- 1 INFILTRATION TRENCH PER COUNTY BMP FACT SHEET - SEE DETAIL ABOVE (OWNER MAINTAINED)
- 2 4' WIDE CATCH BASIN PER RIVERSIDE COUNTY STD. 300 WITH OLDCASTLE CURB INLET CATCH BASIN FILTER PER DETAIL HEREON. (OR EQUIVALENT)
- 3 18" H.D.P.E. STORM DRAIN WITH FLARED END SECTION AT OUTLET.
- 4 8" H.D.P.E. STORM DRAIN
- 5 12" THICK ROCK RIP-RAP FOR BASIN OUTLET WITH 5'X5' ROCK SPLASH PAD AT BOTTOM - USE 8" MIN. DIAMETER ROCK.
- 6 6" SCREENED OVERFLOW PIPE
- 7 OBSERVATION WELL - SEE CROSS SECTION FOR DETAILS
- 8 24"X24" PRECAST CATCH BASIN WITH OLDCASTLE CATCH BASIN FILTER PER DETAIL HEREON. (OR EQUIVALENT)



**FloGard®**  
 Catch Basin Insert Filter  
 Curb Inlet Style

**Oldcastle®**  
 Stormwater Solutions

- CONSTRUCTION NOTES:**
- 1 CONSTRUCT A.C. DRIVE APPROACH PER RIVERSIDE COUNTY STANDARDS.
  - 2 CONSTRUCT 6" TYPE A-6 CURB & GUTTER PER RIVERSIDE COUNTY STD. 200.
  - 3 CONSTRUCT 6" TYPE D CURB PER RIVERSIDE COUNTY STD. 204.
  - 4 CONSTRUCT A.C. PAVING OVER CLASS II BASE.
  - 5 CONSTRUCT 4" THICK CONCRETE SIDEWALK AND STAIRS.
  - 6 HANDICAP PARKING STALL PER ADA REQUIREMENTS.
  - 7 CONSTRUCT 4" WIDE LONGITUDINAL GUTTER PER S.P.P.W.C. STD. 122-2.
  - 8 CONSTRUCT 4' WIDE CATCH BASIN PER RIVERSIDE COUNTY STD. 300. INSTALL CATCH BASIN FILTER PER W.Q.M.P. PLANS.
  - 9 INSTALL 12" H.D.P.E. STORM DRAIN WITH FLARED END SECTION AT OUTLET.
  - 10 INSTALL 6" H.D.P.E. STORM DRAIN WITH FLARED END SECTION AT OUTLET.
  - 11 INSTALL 24"X24" PRECAST CATCH BASIN. INSTALL CATCH BASIN FILTER PER W.Q.M.P. PLANS.
  - 12 CONSTRUCT 12" THICK ROCK RIP-RAP FOR BASIN OUTLET WITH 5'X5' ROCK SPLASH PAD AT BOTTOM - USE 8" MIN. DIAMETER ROCK.
  - 13 SAWCUT AND REMOVE EXISTING A.C. PAVING
  - 14 CONSTRUCT TYPE I, BASE B, CURB RAMP PER S.P.P.W.C. STD. 111-5
  - 15 SAWCUT AND REMOVE EXISTING ROADWAY AND CONSTRUCT 24' WIDE ASPHALT ROADWAY PER OAKWOOD STREET TYPICAL SECTION ON SHT. 1
  - 16 CONSTRUCT TRASH ENCLOSURE PER ARCHITECTURAL PLANS.
  - 17 CONSTRUCT 6' MAX HEIGHT RETAINING WALL WITH 42" RAILING ON TOP
  - 18 GRADE SWALE TO MAINTAIN OFF-SITE DRAINAGE COURSE TO EXISTING DRIVEWAY
  - 19 GRADED SWALE AT 2.0% MINIMUM GRADE



**PROPOSED IMPERVIOUS AREA:**  
 SIDEWALKS/PARKING LOT = 23,366 SQ. FT.  
 BUILDINGS = 18,500 SQ. FT.  
 TOTAL = 41,866 SQ. FT.

**EXISTING IMPERVIOUS AREA TO REMAIN:**  
 SIDEWALKS/PARKING LOT = 12,233 SQ. FT.  
 BUILDINGS = 10,048 SQ. FT.  
 TOTAL = 22,281 SQ. FT.

**EXISTING IMPERVIOUS AREA TO BE REMOVED:**  
 SIDEWALKS/PARKING LOT = 9,881 SQ. FT.

**TOTAL DISTURBED AREA:**  
 51,836 SQ. FT. = 1.19 ACRES

**NOTE:**  
 AREAS DO NOT REFLECT THOSE IN DRAINAGE AREAS DA1 & DA2. SOME EXISTING AREAS DO NOT DRAIN TO BMPS

**DA1 L.I.D. B.M.P. SIZING TABLE**

POST-PROJECT SURFACE TYPE	AREAS [A]	EFFECTIVE IMPERVIOUS FRACTION [B]	DMA RUNOFF FACTOR [C]	DMA AREAS RUNOFF FACTOR [A] X [C]	DESIGN STORM DEPTH (IN) [E]	DESIGN CAPTURE VOLUME, V <sub>mp</sub> (CUBIC FEET) [F] = $\frac{[D] \times [E]}{12}$
PROPOSED LANDSCAPE	2,340	0.10	0.110	257	[E]	[F]
PROPOSED BUILDING	8,140	1.00	0.892	7,261		
PROPOSED PAVEMENT	11,974	1.00	0.892	10,681		
EXISTING LANDSCAPE	4,833	0.10	0.110	532	[E]	[F]
EXISTING BUILDING	10,048	1.00	0.892	8,963		
EXISTING PAVEMENT	9,001	1.00	0.892	8,029	[E] = 1.18	[F] = 3,513 CUBIC FEET
				[D] = 35.723	[E] = 1.18	[F] = 3,513 CUBIC FEET

**DA2 L.I.D. B.M.P. SIZING TABLE**

POST-PROJECT SURFACE TYPE	AREAS [A]	EFFECTIVE IMPERVIOUS FRACTION [B]	DMA RUNOFF FACTOR [C]	DMA AREAS RUNOFF FACTOR [A] X [C]	DESIGN STORM DEPTH (IN) [E]	DESIGN CAPTURE VOLUME, V <sub>mp</sub> (CUBIC FEET) [F] = $\frac{[D] \times [E]}{12}$
PROPOSED LANDSCAPE	2,145	0.10	0.110	236	[E]	[F]
PROPOSED BUILDING	10,360	1.00	0.892	9,241		
PROPOSED PAVEMENT	11,392	1.00	0.892	10,161		
				[D] = 19.638	[E] = 1.18	[F] = 1,931 CUBIC FEET

**SITETECH INC.**  
 8061 CHURCH ST. HIGHLAND CA 92346 PO BOX 592  
 PH: (909) 864-3180, FAX: (909) 864-0850

**PRELIMINARY W.Q.M.P. PLAN**

PREPARED FOR: **RUSTIC RENTALS, LLC**

DATE: AUGUST 12, 2021  
 APN 563-250-028  
 SCALE: AS NOTED

SITE ADDRESS:  
 25840 IDYLLWILD HIGHWAY  
 IDYLLWILD, CA 92549  
 PHONE: (951) 659-9505  
 SHEET NO. C-3

BERNHARD K. MAYER R.C.E. 36866 DATE: AUGUST 12, 2021

# Appendix 2: Construction Plans

*Grading and Drainage Plans*

COUNTY OF RIVERSIDE  
**PRELIMINARY GRADING & DRAINAGE PLAN**  
**RUSTIC RENTALS, LLC**  
**PINEWOODS RESIDENCES**  
 25840 IDYLLWILD HIGHWAY  
 IDYLLWILD, CA

**GENERAL**

- ALL GRADING SHALL CONFORM TO THE 2016 CALIFORNIA BUILDING CODE (CBC) CHAPTERS 17, 18, & APPENDIX-J AS AMENDED BY ORDINANCE 457.
- ALL PROPERTY CORNERS, GRADING BOUNDARIES AND ALL CONSERVATION AREAS/LEAST SENSITIVE AREA (LSA) DETERMINED BY THE ENVIRONMENTAL PROGRAMS DEPARTMENT (EPD) SHALL BE CLEARLY DELINEATED AND STAKED IN THE FIELD PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION/GRADING.
- ALL WORK UNDER THIS PERMIT SHALL BE LIMITED TO WORK WITHIN THE PROPERTY LINES. ALL WORK WITHIN THE ROAD RIGHT-OF-WAY WILL REQUIRE SEPARATE PLANS AND A SEPARATE REVIEW-APPROVAL (PERMIT) FROM THE TRANSPORTATION DEPARTMENT.
- ALL GRADING SHALL BE DONE UNDER THE SUPERVISION OF A SOILS ENGINEER IN CONFORMANCE WITH THE RECOMMENDATIONS OF THE PRELIMINARY SOILS INVESTIGATION PREPARED BY \_\_\_\_\_ DATED \_\_\_\_\_.
- COMPACTED FILL TO SUPPORT ANY STRUCTURES SHALL COMPLY WITH SECTION 1803.5.B. PROJECTS WITHOUT A PRELIMINARY SOILS REPORT SHALL INCLUDE DETAILED SPECIFICATIONS IN ACCORDANCE WITH SECTIONS 1803.2 AND 1803.5 PREPARED BY THE ENGINEER OF RECORD.
- THE CONTRACTOR SHALL NOTIFY THE BUILDING AND SAFETY DEPARTMENT AT LEAST 24 HOURS IN ADVANCE TO REQUEST FINISH LOT GRADE AND DRAINAGE INSPECTION. THIS INSPECTION MUST BE APPROVED PRIOR TO BUILDING PERMIT FINAL INSPECTION FOR EACH LOT.
- THE CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICE ALERT, TWO DAYS BEFORE DIGGING AT 1-800-422-4133.
- PRIOR TO GRADING, A MEETING SHALL BE SCHEDULED WITH A RIVERSIDE COUNTY ENVIRONMENTAL COMPLIANCE INSPECTOR PRIOR TO COMMENCEMENT OF GRADING OPERATIONS.

**CUT/FILL**

- MAXIMUM CUT AND FILL SLOPE = 2:1 (HORIZONTAL TO VERTICAL).
- NO FILL SHALL BE PLACED ON EXISTING GROUND UNTIL THE GROUND HAS BEEN CLEARED OF WEEDS, TOPSOIL AND OTHER DELETERIOUS MATERIAL. FILLS SHOULD BE PLACED IN THIN LIFTS (8-INCH MAX OR AS RECOMMENDED IN THE SOILS REPORT), COMPACTED AND TESTED THROUGHOUT THE GRADING PROCESS UNTIL FINAL GRADES ARE ATTAINED. ALL FILLS ON SLOPES STEEPER THAN 5 TO 1 (HORIZONTAL TO VERTICAL) AND A HEIGHT GREATER THAN 5 FEET SHALL BE KEVED AND BENCHED INTO FIRM NATURAL SOIL FOR FULL SUPPORT. THE BENCH UNDER THE TOE MUST BE 10 FEET WIDE MINIMUM.
- THE SLOPE STABILITY FOR CUT AND FILL SLOPES OVER 30 FEET IN VERTICAL HEIGHT, OR CUT SLOPES STEEPER THAN 2:1 HAVE BEEN VERIFIED WITH A FACTOR OF SAFETY OF AT LEAST 1.5.
- NO ROCK OR SIMILAR IRREDUCIBLE MATERIAL WITH A MAXIMUM DIMENSION GREATER THAN 12 INCHES SHALL BE BURIED OR PLACED IN FILLS CLOSER THAN 10 FEET TO THE FINISHED GRADE.

**DRAINAGE, FROSION / DUST CONTROL**

- DRAINAGE ACROSS PROPERTY LINES SHALL NOT EXCEED THAT WHICH EXISTED PRIOR TO GRADING. EXCESS OR CONCENTRATED DRAINAGE SHALL BE CONTAINED ON SITE OR DIRECTED TO AN APPROVED DRAINAGE FACILITY. EROSION OF THE GROUND IN THE AREA OF DISCHARGE SHALL BE PREVENTED BY INSTALLATION OF NON-EROSIVE DOWN DRAINS OR OTHER DEVICES.
- PROVIDE A PAVED SLOPE INTERCEPTOR DRAIN ALONG THE TOP OF CUT SLOPES WHERE THE DRAINAGE PATH IS GREATER THAN 40 FEET TOWARDS THE CUT SLOPE.
- PROVIDE 5' WIDE BY 1' HIGH BERM ALONG THE TOP OF ALL FILL SLOPES STEEPER THAN 3:1 (HORIZONTAL TO VERTICAL).
- THE GROUND SURFACE IMMEDIATELY ADJACENT TO THE BUILDING FOUNDATION SHALL BE SLOPED AWAY FROM THE BUILDING AT A SLOPE OF NOT LESS THAN ONE UNIT VERTICAL IN 20 UNITS HORIZONTAL (5-PERCENT SLOPE) FOR A MINIMUM DISTANCE OF 10 FEET MEASURED PERPENDICULAR TO THE FACE OF THE FOUNDATION.
- NO OBSTRUCTION OF NATURAL WATER COURSES SHALL BE PERMITTED.
- DURING ROUGH GRADING OPERATIONS AND PRIOR TO CONSTRUCTION OF PERMANENT DRAINAGE STRUCTURES, TEMPORARY DRAINAGE CONTROL (BEST MANAGEMENT PRACTICES, BMPs) SHALL BE PROVIDED TO PREVENT PONDING WATER AND DRAINAGE TO ADJACENT PROPERTIES.
- DUST CONTROL SHALL BE CONTROLLED BY WATERING OR OTHER APPROVED METHODS.
- FUGITIVE DUST CONTROL: CONSTRUCTION SITES SUBJECT TO PM10 FUGITIVE DUST MITIGATION SHALL COMPLY WITH AQMD RULE 403.1.
- ALL EXISTING DRAINAGE COURSES AND STORM DRAIN FACILITIES SHALL CONTINUE TO FUNCTION. PROTECTIVE MEASURES AND TEMPORARY DRAINAGE PROVISIONS MUST BE USED TO PROTECT ADJOINING PROPERTIES DURING GRADING OPERATIONS.
- FOR ALL SLOPES STEEPER THAN 4 TO 1 (H/V), ALL SLOPES EQUAL TO OR GREATER THAN 3' IN VERTICAL HEIGHT ARE REQUIRED TO BE PLANTED WITH AN APPROVED DROUGHT-TOLERANT GROUND COVER AT A MINIMUM SPACING OF 12" ON CENTER OR AS APPROVED BY THE ENGINEER OF RECORD OR THE REGISTERED LANDSCAPE ARCHITECT AND DROUGHT-TOLERANT SHRUBS SPACED AT NO MORE THAN 10' ON CENTER. SLOPES EXCEEDING 15' IN VERTICAL HEIGHT SHALL BE PLANTED WITH APPROVED SHRUBS NOT TO EXCEED 10' ON CENTER, OR TREES SPACED NOT TO EXCEED 20' ON CENTER, OR A COMBINATION OF SHRUBS AND TREES NOT TO EXCEED 15' IN ADDITION TO THE GRASS OR GROUND COVER. SLOPES THAT REQUIRE PLANTING SHALL BE PROVIDED WITH AN IN-GROUND IRRIGATION SYSTEM EQUIPPED WITH AN APPROPRIATE BACKFLOW DEVICE PER C.P.C. CHAPTER 6. THE SLOPE PLANTING AND IRRIGATION SYSTEM SHALL BE INSTALLED AS SOON AS POSSIBLE UPON COMPLETION OF ROUGH GRADING. ALL PERMANENT SLOPE PLANTING SHALL BE ESTABLISHED AND IN GOOD CONDITION PRIOR TO SCHEDULING PRECISE GRADE INSPECTION.

**COMPLETION OF WORK**

- ROUGH GRADE**  
A REGISTERED CIVIL ENGINEER SHALL PREPARE FINAL COMPACTION REPORT/GRADING REPORT AND IT SHALL BE SUBMITTED TO THE DEPARTMENT OF BUILDING AND SAFETY FOR REVIEW AND APPROVAL. THE REPORT SHALL INCLUDE BUILDING FOUNDATION DESIGN PARAMETERS (ALLOWABLE SOIL PRESSURES, ETC.), EXPANSION INDEX (AND DESIGN ALTERNATIVES IF  $e_i > 20$ ), WATER SOLUBLE SULFATE CONTENT, CORROSIVITY AND REMEDIAL MEASURES IF NECESSARY.
- EXCEPT FOR NON-TRACT SINGLE RESIDENTIAL LOT GRADING, THE COMPACTION REPORT SHALL INCLUDE THE SPECIAL INSPECTION VERIFICATIONS LISTED ON TABLE 1705.6 OF 2016 CBC.
- THE COUNTY OF RIVERSIDE REQUIRES A LICENSED PROFESSIONAL ENGINEER TO SUBMIT A WET SIGNED AND STAMPED ROUGH GRADING CERTIFICATION WHICH INCLUDES PAD ELEVATIONS PRIOR TO REQUESTING INSPECTION AND ISSUANCE OF THE BUILDING PERMIT.
- ROUGH GRADE ONLY PERMITS**: IN ADDITION TO OBTAINING ALL REQUIRED INSPECTIONS AND APPROVAL OF ALL FINAL REPORTS, ALL SITES PERMITTED FOR ROUGH GRADE ONLY SHALL PROVIDE VEGETATIVE COVERAGE (100 PERCENT) OR OTHER MEANS OF SITE STABILIZATION APPROVED BY ENVIRONMENTAL COMPLIANCE DIVISION, PRIOR TO RECEIVING A ROUGH GRADE PERMIT FINAL.
- PRECISE GRADE**  
A REGISTERED CIVIL ENGINEER SHALL SUBMIT TO THE BUILDING AND SAFETY DEPARTMENT WRITTEN FINAL CERTIFICATION OF COMPLETION OF GRADING IN ACCORDANCE WITH THE APPROVED GRADING PLAN PRIOR TO THE REQUEST OF PRECISE GRADING INSPECTION.

**PRE-GRADING/CONSTRUCTION NOTE:**

A PRE-GRADING/PRE-CONSTRUCTION MEETING AND SITE INSPECTION SHALL BE ARRANGED FOR BY THE SITE DEVELOPER PRIOR TO COMMENCING GRADING OPERATIONS. THOSE PARTIES REQUIRED TO ATTEND THE PRE-CONSTRUCTION MEETING SHALL INCLUDE BUT ARE NOT LIMITED TO THE DEVELOPER, PROJECT SUPERINTENDENT, ENGINEER OF RECORD, SOILS ENGINEER, GRADING CONTRACTOR AND THE UNDERGROUND UTILITIES CONTRACTOR. REPRESENTING THE DEPARTMENT OF BUILDING AND SAFETY SHALL BE THE GRADING PLAN-CHECKER AND/OR GRADING INSPECTOR. THE FOCUS OF THE PRE-CONSTRUCTION MEETING SHALL BE TO DISCUSS THE VARIOUS ASPECTS AND RESPONSIBILITIES OF THE GRADING PROJECT AND TO PROVIDE AN APPROXIMATE TIME-TABLE FOR THE COMPLETION OF ROUGH GRADING. ARRANGE FOR A PRE-GRADING/ PRE-CONSTRUCTION MEETING BY CALLING THE DISTRICT OFFICE RESPONSIBLE FOR PROVIDING YOUR GRADING AND BUILDING INSPECTIONS.

**TEMPORARY EROSION CONTROL NOTES:**

- TEMPORARY EROSION CONTROL MEASURES ARE REQUIRED FOR GRADING OPERATIONS SCHEDULED FROM OCTOBER 15TH TO APRIL 15TH. APPROVED TEMPORARY EROSION CONTROL PLANS ARE REQUIRED FOR GRADING PROJECTS INVOLVING MORE THAN 4 STRUCTURES, OR WHEN DEEMED NECESSARY BY THE BUILDING OFFICIAL.
- IN CASE OF EMERGENCY CALL SHANE STEWART AT (951) 659-9505.
- THE DESIGN CIVIL ENGINEER SHALL SUPERVISE THE EROSION CONTROL WORK AND VERIFY TO THE DEPARTMENT OF BUILDING AND SAFETY THAT THE WORK WAS COMPLETED IN ACCORDANCE WITH THE APPROVED TEMPORARY EROSION CONTROL PLAN.
- EQUIPMENT AND WORKERS FOR EMERGENCY WORK SHALL BE MADE AVAILABLE DURING THE RAINY SEASON. NECESSARY MATERIALS SHALL BE AVAILABLE ON SITE AND SHALL BE STOCKPILED AT CONVENIENT LOCATIONS TO FACILITATE RAPID CONSTRUCTION OF TEMPORARY DEVICES WHEN RAIN IS IMMINENT.
- DEVICES SHALL NOT BE MOVED OR MODIFIED WITHOUT THE APPROVAL OF THE BUILDING OFFICIAL.
- ALL REMOVABLE PROTECTIVE DEVICES SHOWN SHALL BE IN PLACE AT THE END OF EACH WORKING DAY WHEN RAIN IS PREDICTED.
- AFTER A RAINSTORM, ALL SILT AND DEBRIS SHALL BE REMOVED FROM CHECK BERMS, SILT FENCES, AND DESILTING BASINS ETC.
- AT THE CONCLUSION OF EACH WORKING DAY GRADED AREAS AROUND THE PROJECT PERIMETER SHALL DRAIN AWAY FROM THE FACE OF SLOPES.
- THE BUILDING OFFICIAL RESERVES THE RIGHT TO MAKE CHANGES OR MODIFICATIONS TO THE TEMPORARY EROSION CONTROL PLAN AS DEEMED NECESSARY.

**SITE ADDRESS:**

25840 IDYLLWILD HIGHWAY  
 IDYLLWILD, CA 92549

**SURVEY NOTE**

THE SOURCE OF THE EXISTING GROUND SURVEY IS FROM A FIELD SURVEY COMPLETED IN OCTOBER 2018. EXISTING GROUND CONTOURS WERE DRAWN FROM SPOT ELEVATIONS OBTAINED IN A GRID FASHION AND AT GRADE BREAKS.

**BENCHMARK**

RIVERSIDE COUNTY BENCHMARK I-12: 165 EAST OF THE INTERSECTION OF THE PINECREST DRIVE AND SOUTH CIRCLE DRIVE AT BRIDGE NO. S-145 OVER STAMBERY CREEK, 20 FEET SOUTH OF SOUTH CIRCLE DRIVE ON TOP OF THE SOUTH END OF THE SOUTHEASTERLY CONCRETE WING WALL SET A BRASS DISK FLUSH, MARKED I-12. ELEVATION = 5575.93

**OWNER-24 HOUR EMERGENCY CONTACT:**

MR. SHANE STEWART  
 RUSTIC RENTALS, LLC  
 P.O. BOX 243  
 IDYLLWILD, CA 92549  
 PH: (951) 659-9505

THE OWNER IS RESPONSIBLE FOR IMPLEMENTING, INSPECTING, AND REPORTING OF THE SITE EROSION CONTROL PLAN REQUIREMENTS.

**SOILS ENGINEER/GEOLOGIST:**

TO BE DETERMINED

**PROPOSED IMPERVIOUS AREA:**

SIDEWALKS/PARKING LOT = 23,366 SQ. FT.  
 BUILDINGS = 18,500 SQ. FT.  
 TOTAL = 41,866 SQ. FT.

**EXISTING IMPERVIOUS AREA TO REMAIN:**

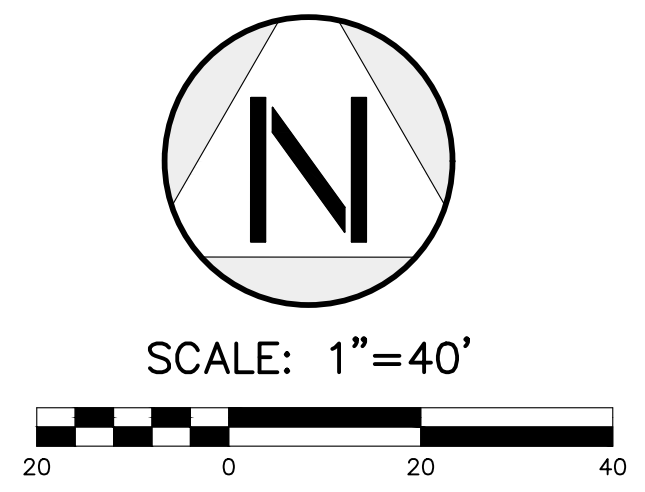
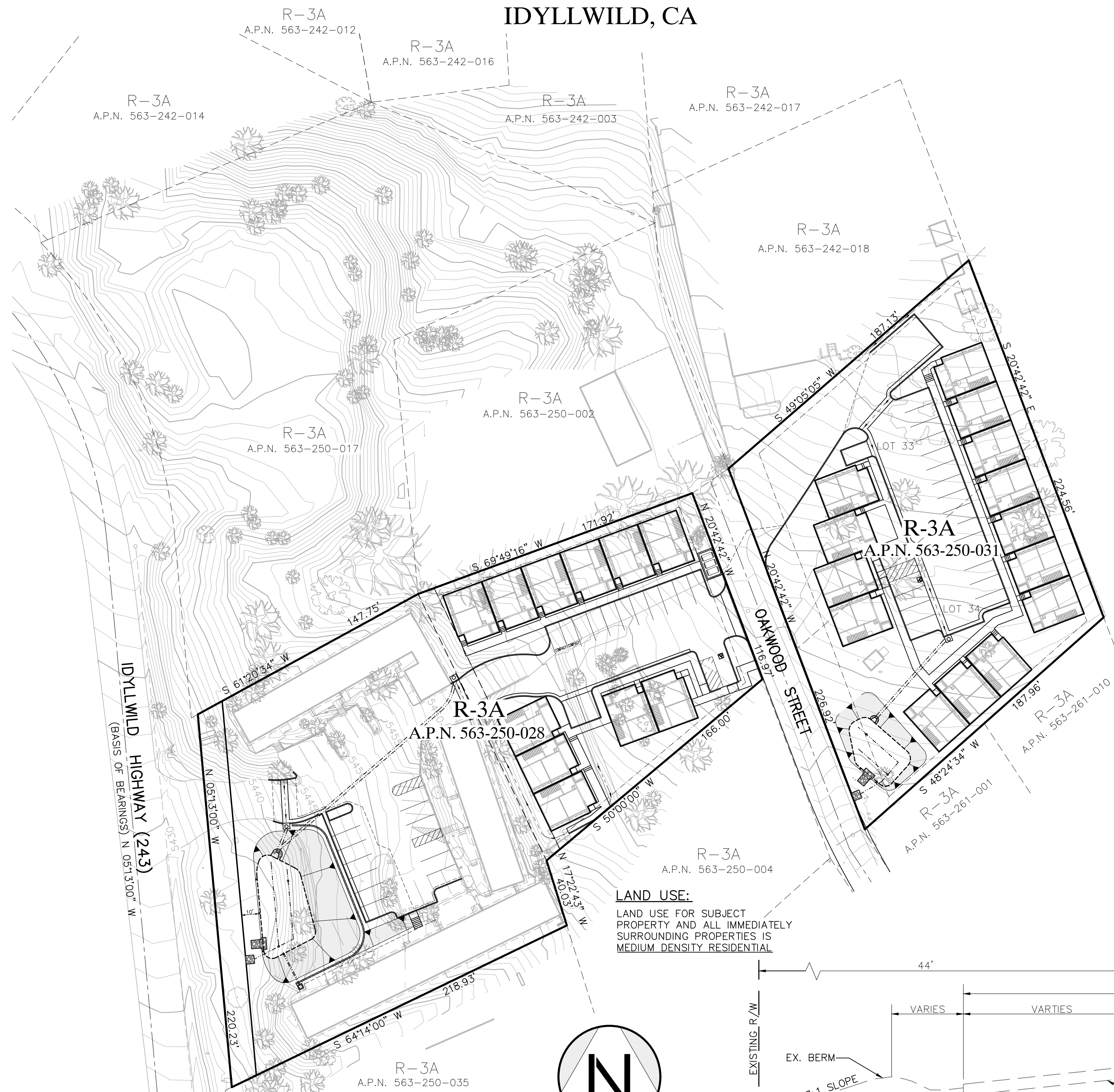
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**EXISTING IMPERVIOUS AREA TO BE REMOVED:**

SIDEWALKS/PARKING LOT = 9,881 SQ. FT.  
 TOTAL DISTURBED AREA: 51,836 SQ. FT. = 1.19 ACRES

**DRAINAGE NOTES:**

- THE ENGINEER OF RECORD WHO PREPARED AND SIGNED THE GRADING PLAN HAS VERIFIED THAT THE PROPOSED DRAINAGE SYSTEM IS CONSISTENT WITH THE NATURAL DRAINAGE PATTERN OF THE SITE AND WILL NOT ADVERSELY AFFECT THE ADJACENT PROPERTIES.
- THE ENGINEER OF RECORD WHO PREPARED AND SIGNED THE GRADING PLAN HAS VERIFIED THAT THE PROPOSED DRAINAGE SYSTEM AND CONFIGURATION COMPLIES WITH SECTION J109.4 OF THE CBC WHICH STATES THAT DRAINAGE ACROSS PROPERTY LINES SHALL NOT EXCEED THAT WHICH EXISTED PRIOR TO GRADING OR CONSTRUCTION. EXCESS OR CONCENTRATED DRAINAGE SHALL BE CONTAINED ONSITE OR DIRECTED TO AN APPROVED DRAINAGE FACILITY.



**LEGAL DESCRIPTION:**

A.P.N. 563-250-17  
 THAT PORTION OF THE NORTHEAST QUARTER OF THE SOUTHWEST QUARTER OF SECTION 7, TOWNSHIP 5 SOUTH, RANGE 3 EAST, SAN BERNARDINO BASE AND MERIDIAN, DESCRIBED AS FOLLOWS:  
 COMMENCING AT THE NORTHWEST CORNER OF LOT 32 OF IDYLLWILD MOUNTAIN PARK TRACT SUBDIVISION NO. 3, AS SHOWN BY MAP ON FILE IN BOOK 8 PAGE 36 OF MAPS, RIVERSIDE COUNTY RECORDS; THENCE NORTH 4° 11' WEST 38.42 FEET, TO THE TRUE POINT OF BEGINNING; THENCE SOUTH 66° 35' WEST 170.29 FEET; THENCE SOUTH 54° 47' 40" EAST 150 FEET, TO THE NORTHWEST CORNER OF LOT 36 OF SAID IDYLLWILD MOUNTAIN PARK TRACT SUBDIVISION NO. 3; THENCE SOUTH 61° 00' WEST 152 FEET, TO A POINT ON THE EASTERLY LINE OF THE BANNING-IDYLLWILD HIGHWAY; THENCE NORTH 05° 31' WEST, ON THE EASTERLY LINE OF THE BANNING-IDYLLWILD HIGHWAY, 105.94 FEET; THENCE NORTHWESTERLY, ON THE EASTERLY LINE OF THE BANNING-IDYLLWILD HIGHWAY, ON A CURVE CONCAVE TO THE SOUTHWEST, HAVING A RADIUS OF 290 FEET, THROUGH AN ANGLE OF 38° 30', A DISTANCE OF 194.87 FEET; THENCE NORTH 66° 38' EAST 211.26 FEET, TO THE SOUTHEASTERLY CORNER OF LOT 33 OF IDYLLWILD MOUNTAIN PARK CO'S SUBDIVISION NO. 9, AS SHOWN BY MAP ON FILE IN BOOK 11 PAGE 29 OF MAPS, RIVERSIDE COUNTY RECORDS; THENCE SOUTHEASTERLY IN A STRAIGHT LINE, TO THE TRUE POINT OF BEGINNING.

EXCEPTING THEREFROM THAT PORTION CONDEMNED BY FINAL ORDER OF CONDEMNATION RECORDED SEPTEMBER 28, 1971 AS INSTRUMENT NO. 71-109968, OFFICIAL RECORDS

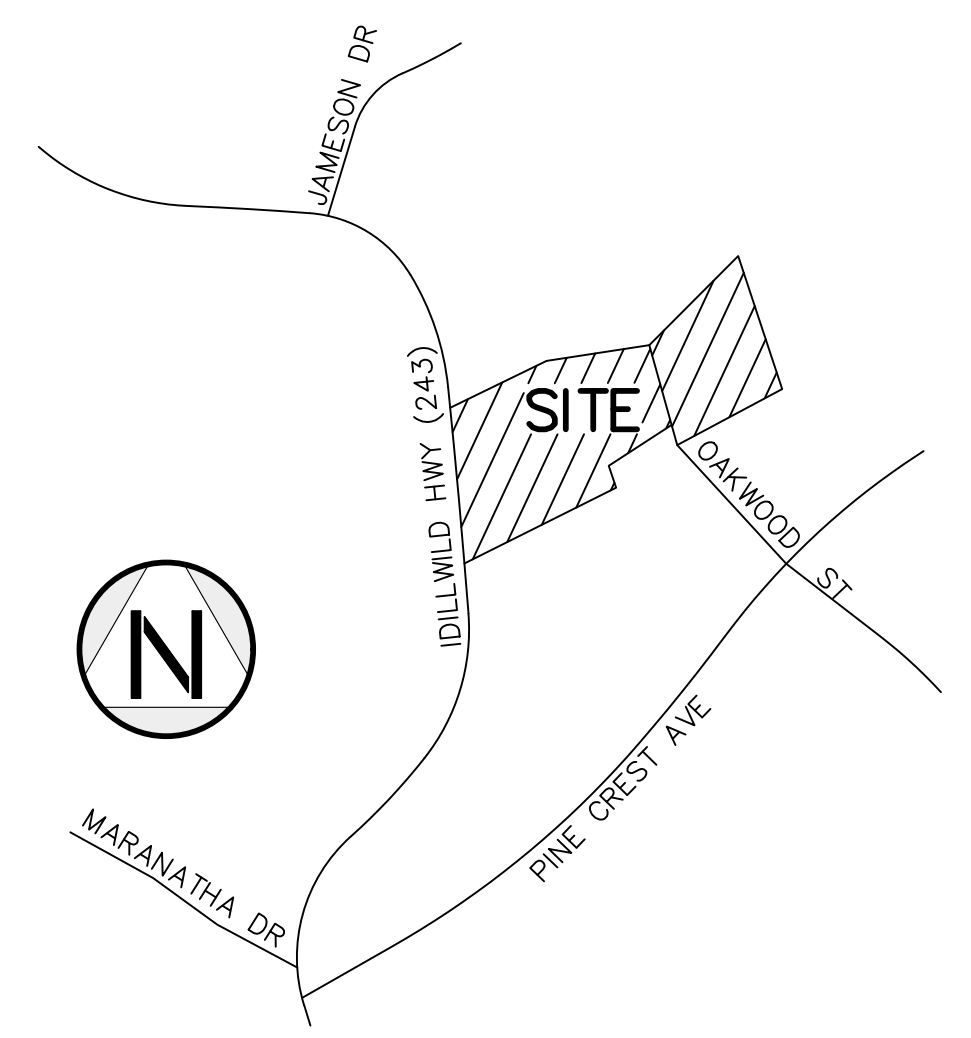
A.P.N. 563-250-028  
 LOT 36 OF IDYLLWILD MOUNTAIN PARK TRACT, SUBDIVISION NO. 3, IN THE COUNTY OF RIVERSIDE, STATE OF CALIFORNIA, AS SHOWN BY MAP ON FILE IN BOOK 8, PAGE 36 OF MAPS, IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY.

TOGETHER WITH THAT PORTION OF SECTION 7, TOWNSHIP 5 SOUTH, RANGE 3 EAST, SAN BERNARDINO BASE AND MERIDIAN, IN THE COUNTY OF RIVERSIDE, STATE OF CALIFORNIA, AS SHOWN BY UNITED STATES GOVERNMENT SURVEY, ACCORDING TO THE OFFICIAL PLAT THEREOF, DESCRIBED AS FOLLOWS:

BEGINNING AT THE NORTHWEST CORNER OF LOT 36, AS SHOWN ON MAP OF IDYLLWILD MOUNTAIN PARK TRACT SUBDIVISION NO. 3, ON FILE IN BOOK 8, PAGE 36 OF MAPS, RIVERSIDE COUNTY RECORDS; THENCE SOUTH 25° 40' EAST ALONG THE WESTERLY LINE OF SAID LOT, 174.10 FEET TO THE MOST SOUTHERLY CORNER THEREOF; THENCE SOUTH 17° 46' EAST ALONG THE WESTERLY LINE OF LOT 35 OF SAID IDYLLWILD MOUNTAIN PARK TRACT SUBDIVISION NO. 3, 40.03 FEET; THENCE SOUTH 64° 14' WEST 223.5 FEET TO A POINT ON THE EASTERLY LINE OF BANNING-IDYLLWILD ROAD; THENCE NORTH 05° 13' WEST ALONG THE EASTERLY RIGHT OF WAY LINE OF THE SAID BANNING-IDYLLWILD ROAD 220 FEET; THENCE NORTH 61° 18' EAST 152 FEET TO THE POINT OF BEGINNING.

EXCEPT THEREFROM THE WESTERLY RECTANGULAR 4 FEET OF SAID LAND CONVEYED TO THE COUNTY OF RIVERSIDE BY GRANT DEED RECORDED JUNE 22, 1977, AS INSTRUMENT NO. 115831, OFFICIAL RECORDS.

A.P.N. 563-250-031  
 LOTS 33 AND 34 OF IDYLLWILD MOUNTAIN PARK COMPANY'S SUBDIVISION NO. 3, IN THE CITY OF , COUNTY OF RIVERSIDE, CALIFORNIA, AS PER MAP RECORDED IN BOOK 8, PAGE(S) 36 OF MISCELLANEOUS MAPS, IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY.

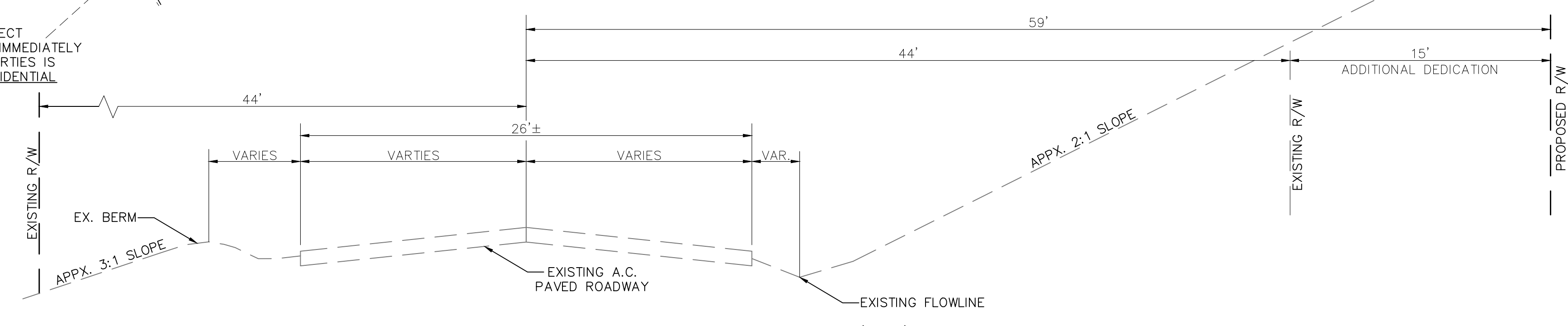


THOMAS BROTHERS GUIDE: PG. 814/D6  
 TOWNSHIP 5S, RANGE 3E, SEC. 7, S.B.M.  
**VICINITY MAP**  
 NO SCALE

**NOTE:**  
 ALL INFORMATION ASSOCIATED WITH BUILDINGS (INCLUDING SETBACKS AND FINISH FLOOR ELEVATIONS) IS FOR REFERENCE ONLY AND THE APPROVAL OF THIS GRADING PLAN DOES NOT INCLUDE ANY PROVISIONS ASSOCIATED WITH THE BUILDINGS.

- NOTES:**
- THE TOTAL DISTURBED AREA FOR THIS PROJECT IS 1.19 ACRES.
  - BUILDING PADS SHALL BE OVEREXCAVATED AND RE-COMPACTED A MINIMUM OF 3 FEET DEPTH, TO 8 FEET OUTSIDE THE BUILDING LINE, OR AS DIRECTED BY THE SOILS ENGINEER. SEE DETAIL ON SHEET 2.
  - AN ENCROACHMENT PERMIT ISSUED BY THE TRANSPORTATION DEPARTMENT WILL BE REQUIRED FOR ANY WORK DONE WITHIN THE PUBLIC RIGHT-OF-WAY.

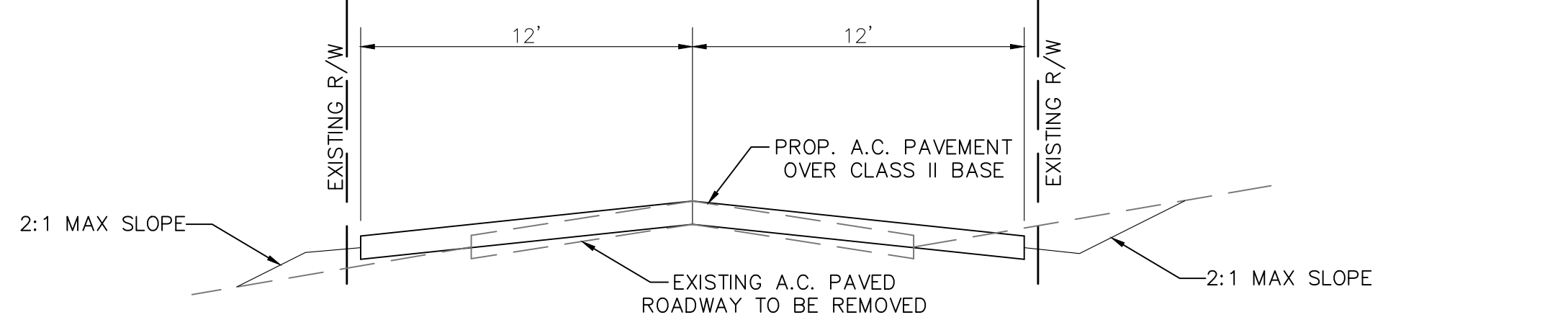
**BASIS OF BEARING:**  
 THE BEARINGS SHOWN HEREON ARE BASED ON THE CENTERLINE OF IDYLLWILD HIGHWAY, BEING N 05°13'00" W PER RS 60/47.



**IDYLLWILD HIGHWAY (243) TYPICAL SECTION**  
 SCALE: 1"=5'

**CONSTRUCTION NOTES:**

- CONSTRUCT A.C. DRIVE APPROACH PER RIVERSIDE COUNTY STANDARDS.
- CONSTRUCT 6" TYPE A-6 CURB & GUTTER PER RIVERSIDE COUNTY STD. 200.
- CONSTRUCT 6" TYPE D CURB PER RIVERSIDE COUNTY STD. 204.
- CONSTRUCT A.C. PAVING OVER CLASS II BASE.
- CONSTRUCT 4" THICK CONCRETE SIDEWALK AND STAIRS.
- HANDICAP PARKING STALL PER ADA REQUIREMENTS.
- CONSTRUCT 4' WIDE LONGITUDINAL GUTTER PER S.P.P.W.C. STD. 122-2.
- CONSTRUCT 4' WIDE CATCH BASIN PER RIVERSIDE COUNTY STD. 300. INSTALL CATCH BASIN FILTER PER W.Q.M.P. PLANS.
- INSTALL 12" H.D.P.E. STORM DRAIN WITH FLARED END SECTION AT OUTLET.
- INSTALL 8" H.D.P.E. STORM DRAIN WITH FLARED END SECTION AT OUTLET.
- INSTALL 24"x24" PRECAST CATCH BASIN. INSTALL CATCH BASIN FILTER PER W.Q.M.P. PLANS.
- CONSTRUCT 12" THICK ROCK RIP-RAP FOR BASIN OUTLET WITH 5'X5' ROCK SPLASH PAD AT BOTTOM - USE 8" MIN. DIAMETER ROCK.
- SAWCUT AND REMOVE EXISTING A.C. PAVING
- CONSTRUCT TYPE I, BASE B, CURB RAMP PER S.P.P.W.C. STD. 111-5
- SAWCUT AND REMOVED EXISTING ROADWAY AND CONSTRUCT 24' WIDE ASPHALT ROADWAY PER OAKWOOD STREET TYPICAL SECTION ON SHT. 1
- CONSTRUCT TRASH ENCLOSURE PER ARCHITECTURAL PLANS.
- CONSTRUCT 6' MAX HEIGHT RETAINING WALL WITH 42" RAILING ON TOP
- GRADE SWALE TO MAINTAIN OFF-SITE DRAINAGE COURSE TO EXISTING DRIVEWAY
- GRADED SWALE AT 2.0% MINIMUM GRADE



**OAKWOOD STREET TYPICAL SECTION**  
 SCALE: 1"=5'

**C.U.P. 190065**

 8061 CHURCH ST., HIGHLAND CA 92346 PO BOX 592 PH: (909) 864-3180, FAX: (909) 864-0850	BMP NO. _____ PERMIT NO. BGR _____ COUNTY OF RIVERSIDE	
	<b>PRELIMINARY GRADING/DRAINAGE PLAN</b>	
PREPARED FOR: <b>RUSTIC RENTALS, LLC</b>	DATE: AUGUST 12, 2021	SITE ADDRESS: 25840 IDYLLWILD HIGHWAY IDYLLWILD, CA 92549
APN 563-250-028	SCALE: AS NOTED	PHONE: (951) 659-9505
BERNHARD K. MAYER R.C.E. 36866	DATE AUGUST 12, 2021	SHEET NO. <b>C-1</b>



**EX. FEATURES LEGEND**

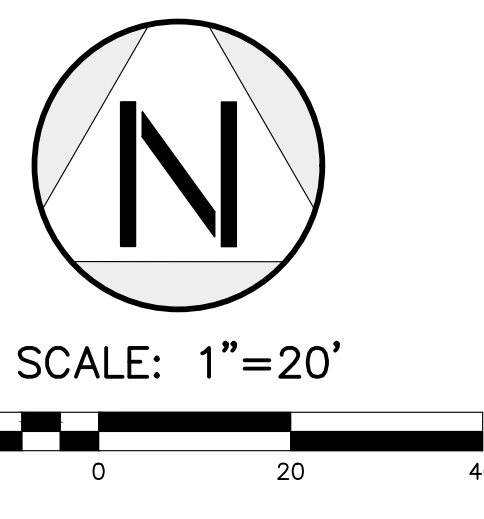
AL	AREA LIGHT
APN	ASSESSOR'S PARCEL NUMBER
ASPH	ASPHALT
CM	CONCRETE METALLIC PIPE
COL	COLUMN
FD	FOUND MONUMENT - AS NOTED
FH	FIRE HYDRANT
FP	FENCE POST
GR	GRATE
LS	LIGHT STANDARD
PP	POWER POLR
PPT	PROPANE TANK
SMH	SEWER MANHOLE
SN	SIGN
UB	UTILITY BOX
WH	WELLHEAD
WM	WATER METER
WV	WATER VALVE
---	BLOCK WALL - TYPICAL
---	FENCE - TYPICAL
---	CONTOURS
---	TREE OAK - TYPICAL
---	TREE PINE - TYPICAL
---	TREE DECIDUOUS - TYPICAL

**LEGEND:**

---	INDICATES EXISTING CONTOUR
---	INDICATES STREET CENTERLINE
---	INDICATES FLOW LINE
---	INDICATES H.D.P.E. DRAIN LINE
---	INDICATES SLOPE FACE
FF	INDICATES FINISH FLOOR
FS	INDICATES FINISH SURFACE
FL	INDICATES FLOW LINE
TC	INDICATES TOP OF CURB
INV	INDICATES INVERT

**CONSTRUCTION NOTES:**

1. CONSTRUCT A.C. DRIVE APPROACH PER RIVERSIDE COUNTY STANDARDS.
2. CONSTRUCT 6" TYPE A-6 CURB & GUTTER PER RIVERSIDE COUNTY STD. 200.
3. CONSTRUCT 6" TYPE D CURB PER RIVERSIDE COUNTY STD. 204.
4. CONSTRUCT A.C. PAVING OVER CLASS II BASE.
5. CONSTRUCT 4" THICK CONCRETE SIDEWALK AND STAIRS.
6. HANDICAP PARKING STALL PER ADA REQUIREMENTS.
7. CONSTRUCT 4' WIDE LONGITUDINAL GUTTER PER S.P.P.W.C. STD. 122-2.
8. CONSTRUCT 4' WIDE CATCH BASIN PER RIVERSIDE COUNTY STD. 300. INSTALL CATCH BASIN FILTER PER W.Q.M.P. PLANS.
9. INSTALL 12" H.D.P.E. STORM DRAIN WITH FLARED END SECTION AT OUTLET.
10. INSTALL 8" H.D.P.E. STORM DRAIN WITH FLARED END SECTION AT OUTLET.
11. INSTALL 24"x24" PRECAST CATCH BASIN. INSTALL CATCH BASIN FILTER PER W.Q.M.P. PLANS.
12. CONSTRUCT 12" THICK ROCK RIP-RAP FOR BASIN OUTLET WITH 5'X5' ROCK SPLASH PAD AT BOTTOM - USE 8" MIN. DIAMETER ROCK.
13. SAWCUT AND REMOVE EXISTING A.C. PAVING
14. CONSTRUCT TYPE I, BASE B, CURB RAMP PER S.P.P.W.C. STD. 111-5
15. SAWCUT AND REMOVE EXISTING ROADWAY AND CONSTRUCT 24' WIDE ASPHALT ROADWAY PER OAKWOOD STREET TYPICAL SECTION ON SHT. 1
16. CONSTRUCT TRASH ENCLOSURE PER ARCHITECTURAL PLANS.
17. CONSTRUCT 6' MAX HEIGHT RETAINING WALL WITH 42" RAILING ON TOP
18. GRADE SWALE TO MAINTAIN OFF-SITE DRAINAGE COURSE TO EXISTING DRIVEWAY
19. GRADED SWALE AT 2.0% MINIMUM GRADE



C.U.P. 190065

BMP NO. \_\_\_\_\_ PERMIT NO. BGR \_\_\_\_\_  
COUNTY OF RIVERSIDE

 8061 CHURCH ST. HIGHLAND CA 92346 PO BOX 592 PH: (909) 864-3180, FAX: (909) 864-0850	<b>PRELIMINARY GRADING/DRAINAGE PLAN</b>	
	PREPARED FOR: <b>RUSTIC RENTALS, LLC</b>	
DATE: AUGUST 12, 2021	SITE ADDRESS: 25840 IDYLLWILD HIGHWAY IDYLLWILD, CA 92549	
APN 563-250-028	PHONE: (951) 659-9505	SHEET NO. C-2
BERNHARD K. MAYER R.C.E. 36886	DATE: AUGUST 12, 2021	SCALE: AS NOTED

# Appendix 3: Soils Information

*Geotechnical Study and Other Infiltration Testing Data*





**GEODYNE  
ENGINEERING, INC.**

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***Geotechnical & Environmental Consultants***

*Phone: (949) 636-8316*

*45 Post, Irvine, CA 92618*

*Mailing Address: 6 Bienvenido, Aliso Viejo, CA 92656*

*anoori@geodyne-engineering.com*

**Percolation Tests Report  
Proposed Extended Stay Lodges  
25840 Idyllwild Road  
Idyllwild, California**

**Geodyne Project No.: GD19G508-2**

**July 8, 2021**



**GEODYNE  
ENGINEERING, INC.**

**Geotechnical & Environmental Consultants**

Phone: (949) 636-8316

45 Post, Irvine, CA 92618

Mailing Address: 6 Bienvenido, Aliso Viejo, CA 92656

[anoori@geodyne-engineering.com](mailto:anoori@geodyne-engineering.com)

July 8, 2021

**WSCS**

2501 E Guasti Rd Suite 201

Ontario, Ca 91761

PH:909-544-9118

CE:909-262-9766

[Wade@WSCSdesign.com](mailto:Wade@WSCSdesign.com)

[www.WSCSdesign.com](http://www.WSCSdesign.com)

Geodyne Project No. GD19G508-2

Attention: Mr. Wade Shuey  
Principal - Owner

Subject: **PERCOLATION TESTS REPORT**

Proposed Extended Stay Lodges at:

25840 Idyllwild Road, Idyllwild, Riverside County, CA 92549

**Reference:**

*1) Geotechnical Investigation Report Update by Geodyne Engineering, Inc.*

*Dated July 7, 2020, Geodyne Project No. GD19G508-1*

*2) County of Riverside – Low Impact Development BMP Design Handbook, Rev. 9/2011*

Per request, we have completed our soil percolation testing at the three (3) noncontiguous parcels in proximity to each other that are the subject of these Percolation Test(s) (herein referred to as “P1-Lot 1, P2-Lot 2, and P3-Lot 3”).

The purpose of our tests was to provide preliminary data for the initial BMP design of infiltration system within the undeveloped lot(s) located at 25840 Idyllwild Road, Idyllwild CA.

## Soil Percolation Test Procedure

To establish the design infiltration rate from percolation rate, we have utilized test Procedures per Riverside County – Low Impact Development BMP Design Handbook, Rev. 9/2011

### Shallow Boring Percolation Test (Less than 10 feet)

Well Permeameter Method (USBR 7300-89)

Three test holes were drilled by means of manual excavation and the aid of power/manual auger to a minimum depth of 5 feet below existing grade. Approximately 2-inches of pea gravel were placed at the bottom of the test hole. A 4” perforated PVC pipe was installed and the sidewalls were filled with pea gravel. Prior to field testing, the hole was pre-soaked. Testing was performed and observations were recorded for a minimum one-hour test period (for coarse grain texture sandy soil) following the test procedures outlined by the referenced standard. Measurements were taken to the nearest 1/4 of an inch using a measuring tape with 1/16 inch divisions.

### Soil Characteristics

In accordance with the Unified Soil Classification System (USCS) the near surface materials are classified as well graded sand (SW) and sand slightly silty to silty (SM). Generally, granular textured material can be considered favorable with respect to the soil infiltration characteristics. **It should be noted that we encountered relatively impermeable granitic bedrock at location of percolation 3 (P-3). For this location (Northerly Lot, APN 562-250-017) we recommend an alternative approved WQMP methods should be considered.**

### Infiltration Rate

The grain size distribution affects soil permeability. Coarse-grained soils with large median particle sizes will yield higher infiltration rates. Finer grained soils will yield lower infiltration rates. Summary of infiltration rates (Inch/Hour) are tabulated below:

#### Shallow Boring Infiltration Rate Summary

Test No.	Location	Depth (Inch)	Tested Infiltration Rate, It (in/hr)
P-1	See Figure 1, Appendix A	60	2.37
P-2	See Figure 1, Appendix A	60	3.81
<b>P-3</b>	<b>See Figure 1, Appendix A</b>	<b>60</b>	<b>0.11</b>

Long-term sustainable infiltration rates may be affected by several factors including the degree of saturation of the adjacent ground and the infiltration of finer grained soils into the system. To account for these factors, the application of these rates should therefore consider the use of an appropriate factor of safety. The development of the factor of safety should be based upon the more conservative rate obtained and include consideration of the impacts of deteriorated

performance, life/health safety issues and should anticipate that the rates established in these tests will be reduced over time. Final selection of the appropriate reduction coefficients & factors of safety should be made by the designer based on the local laws and ordinances, and desired level of conservatism. The BMP design should be based on the latest version of requirements of referenced Low Impact Development BMP Design Handbook, Rev. 9/2011 by the County of Riverside.

## Closure

The findings and conclusions in this report were prepared in accordance with generally accepted engineering principles and practices. No other warranty, either expressed or implied, is made as to the future performance of the project. Conclusions, recommendations, and other information contained in this report are based upon the assumption that the subsurface conditions do not vary appreciably between and adjacent to the observation points. Although no significant variation is anticipated, it must be recognized that variations can occur. This report has been prepared for our client, to be used solely design purposes. Anyone using this report for any other purpose must draw their own conclusions regarding the infiltration characteristics and soil conditions at the site.

We appreciate this opportunity to be of continued service to you. Should you have any questions regarding the information contained herein, please contact us at your earliest convenience.

Respectfully submitted,  
**Geodyne Engineering, Inc.**



A. Wahab Noori, P. E., QSD  
Senior Engineer / RCE C 081696  
Registration Exp. Date: 03/31/2022



## ATTACHMENTS:

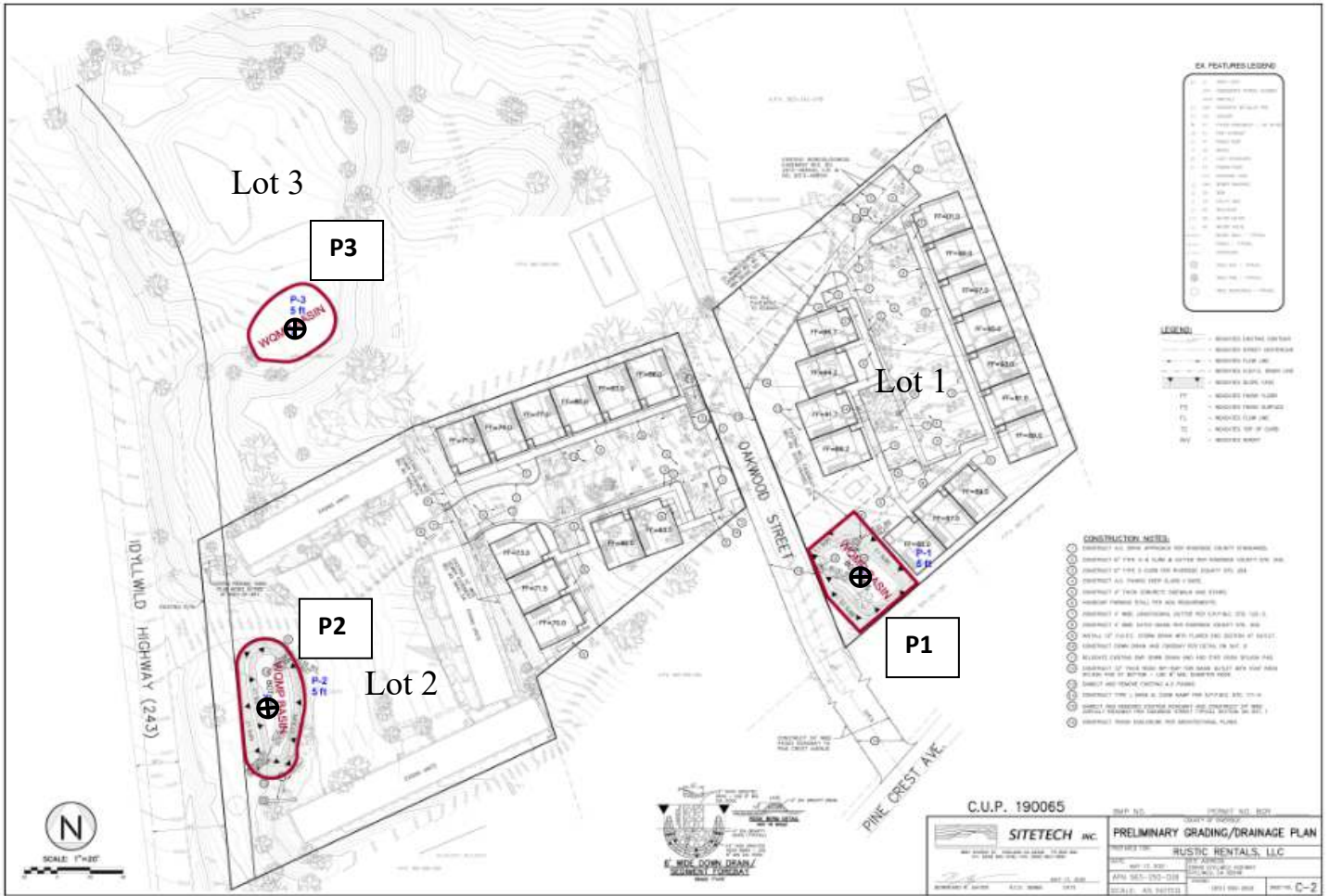
### Appendix A

Figures: 1, Site Plan/Approximate Percolation Test Locations

### Appendix B

Percolation Tests: P1, P2 & P3

# **APPENDIX A**



Ref: Preliminary Grading/Drainage Plan  
 Prepared by SITETECH, INC. Dated 5/17/21

Proposed Extended Stay Lodges at:  
 25840 Idyllwild Road, Idyllwild,  
 Riverside County, CA 92549

## Geodyne Engineering, Inc.

### Site Plan & Approximate Percolation Test Locations

Project No: GD19G508-2

Figure: 1

## **APPENDIX B**

# Percolation Test Data Sheet

Project:	25840 Idyllwild Road	Project No.:	GD19G508-2	Date:	7/1/2021
Test Hole No.:	P1 - LOT1	Tested By:	JV		
Depth of Test Hole (in), DT:	60	USCS Soil Classification:	SW/SM		
Test Hole Dimensions (inches)				Length	Width
Diameter (if round) (in)	8	Sides (if rectangular) (in)			

## Sandy Soil Criteria Test

Trial No.	Start Time	Stop Time	Time Interval (min.)	Initial Depth to Water (in.)	Final Depth to Water (in.)	Change in Water Level (in.)	Greater than or Equal to 6" (Y/N)	Remarks
1	12:10	12:35	25	0	51.8	8.2	Y	
2	12:35	13:00	25	0	53.1	6.9	Y	

Note: If two consecutive measurements show that six inches of water seeps away in less than 25 minutes, the test shall be run for an additional hour with measurements taken every 10 minutes. Other wise, pre-soak (fill) overnight. Obtain at least twelve measurements per hole over at least six hours (approximately 30 minutes intervals) with a precision of at least 0.25".

Trial No.	Start Time	Stop Time	Time Interval $\Delta t$ (min.)	Initial Depth to Water D0 (in.)	Final Depth to Water Df (in.)	Change in Water Level $\Delta D$ (in.)	Percolation Rate Pr (min./in.)	Remarks
1	13:10	13:20	10	0	39.00	21	0.48	
2	13:20	13:30	10	0	33.00	6	1.67	
3	13:30	15:05	10	0	28.00	5	2.00	
4	15:05	15:15	10	0	22.00	6	1.67	
5	15:15	15:25	10	0	14.00	8	1.25	
6	15:25	15:35	10	0	11.00	3	3.33	
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								

COMMENTS: Sunny, Temp 84F, Clear.





# Infiltration Rate Calculation

The Data Collected at The Final Interval

Time interval $\Delta t$ (min.)	Initial Depth to Water $D_0$ (in.)	Final Depth to Water $D_f$ (in.)	Total Depth of Test Hole $DT$ (In.)	Test Hole Radius $r$ (in.)
10	0	11	60	4

Tested Infiltration Rate

$H_0$	$H_f$	$\Delta H$	$H_{avg}$	$I_t$ (in/hour)
60	49	11	54.50	2.34

Note:

$H_0$  is the initial height of water at the selected time interval.

$H_f$  is the final height of water at the selected time interval.

$\Delta H$  is the change in height over the time interval.

$H_{avg}$  is the average head height over the time interval.

$I_t$  is the tested infiltration rate.

$$I_t = \frac{\Delta H \cdot 60 \cdot r}{\Delta t(r + 2H_{avg})}$$

COMMENTS:

# Percolation Test Data Sheet

Project:	25840 Idyllwild Road	Project No.:	GD19G508-2	Date:	7/1/2021
Test Hole No.:	P2 - LOT2	Tested By:	JV		
Depth of Test Hole (in), DT:	60	USCS Soil Classification:	SW/SM		
Test Hole Dimensions (inches)				Length	Width
Diameter (if round) (in)	8	Sides (if rectangular) (in)			

## Sandy Soil Criteria Test

Trial No.	Start Time	Stop Time	Time Interval (min.)	Initial Depth to Water (in.)	Final Depth to Water (in.)	Change in Water Level (in.)	Greater than or Equal to 6" (Y/N)	Remarks
1	14:30	14:55	25	0	43.2	16.8	Y	
2	14:55	15:20	25	0	40.0	20.0	Y	

Note: If two consecutive measurements show that six inches of water seeps away in less than 25 minutes, the test shall be run for an additional hour with measurements taken every 10 minutes. Other wise, pre-soak (fill) overnight. Obtain at least twelve measurements per hole over at least six hours (approximately 30 minutes intervals) with a precision of at least 0.25".

Trial No.	Start Time	Stop Time	Time Interval $\Delta t$ (min.)	Initial Depth to Water $D_0$ (in.)	Final Depth to Water $D_f$ (in.)	Change in Water Level $\Delta D$ (in.)	Percolation Rate $Pr$ (min./in.)	Remarks
1	15:30	15:40	10	0	44.00	16	0.63	
2	15:40	15:50	10	0	36.00	8	1.25	
3	15:50	16:00	10	0	31.00	5	2.00	
4	16:00	16:10	10	0	27.00	4	2.50	
5	16:10	16:20	10	0	20.00	7	1.43	
6	16:20	16:30	10	0	17.00	3	3.33	
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								

COMMENTS: Sunny, Temp 84F, Clear.



# Infiltration Rate Calculation

## The Data Collected at The Final Interval

Time interval $\Delta t$ (min.)	Initial Depth to Water $D_0$ (in.)	Final Depth to Water $D_f$ (in.)	Total Depth of Test Hole $DT$ (In.)	Test Hole Radius $r$ (in.)
10	0	17	60	4

## Tested Infiltration Rate

$H_0$	$H_f$	$\Delta H$	$H_{avg}$	$I_t$ (in/hour)
60	43	17	51.50	3.81

Note:

$H_0$  is the initial height of water at the selected time interval.

$H_f$  is the final height of water at the selected time interval.

$\Delta H$  is the change in height over the time interval.

$H_{avg}$  is the average head height over the time interval.

$I_t$  is the tested infiltration rate.

$$I_t = \frac{\Delta H \cdot 60 \cdot r}{\Delta t (r + 2H_{avg})}$$

COMMENTS:

## Percolation Test Data Sheet

Project:	25840 Idyllwild Road	Project No.:	GD19G508-2	Date:	7/2/2021
Test Hole No.:	P-3	Tested By:	JV		
Depth of Test Hole, DT:	60 in	USCS Soil Classification:	Granitic bedrock		
Test Hole Dimensions (inches)				Length	Width
Diameter (if round)	8	Sides (if rectangular)			

### Sandy Soil Criteria Test

Trial No.	Start Time	Stop Time	Time Interval (min.)	Initial Depth to Water (in.)	Final Depth to Water (in.)	Change in Water Level (in.)	Greater than or Equal to 6"? (Y/N)	Remarks

Note: If two consecutive measurements show that six inches of water seeps away in less than 25 minutes, the test shall be run for an additional hour with measurements taken every 10 minutes. Other wise, pre-soak (fill) overnight. Obtain at least twelve measurements per hole over at least six hours (approximately 30 minutes intervals) with a precision of at least 0.25".

Trial No.	Start Time	Stop Time	Time Interval Δt (min.)	Initial Depth to Water D0 (in.)	Final Depth to Water Df (in.)	Change in Water Level ΔD (in.)	Percolation Rate Pr (min./in.)	Remarks
1	10:00	10:30	30	0.00	15.00	15.00	2.00	
2	10:30	11:00	30	15.00	22.80	7.80	3.85	
3	11:00	11:30	30	22.80	29.00	6.20	4.84	
4	11:30	12:00	30	29.00	32.50	3.50	8.57	
5	12:00	12:30	30	32.50	36.00	3.50	8.57	
6	12:30	13:00	30	36.00	38.10	2.10	14.29	
7	13:00	13:30	30	38.10	39.30	1.20	25.00	
8	13:30	14:00	30	39.30	40.50	1.20	25.00	
9	14:00	14:30	30	40.50	41.15	0.65	46.15	
10	14:30	15:00	30	41.15	41.66	0.51	58.82	
11	15:00	15:30	30	41.6	42.15	0.55	54.55	
12	15:30	16:00	30	42.15	42.7	0.55	54.55	
13								
14								
15								
16								
17								
18								

COMMENTS: Sunny, Temp 81F, clear.

# Percolation Test Data Sheet

Project:	25840 Idyllwild Road	Project No.:	GD19G508-2	Date:	7/2/2021
Test Hole No.:	P-3	Tested By:	JV		
Depth of Test Hole, DT:	60 in	USCS Soil Classification:	Bedrock		
Test Hole Dimensions (inches)				Length	Width
Diameter (if round)	8	Sides (if rectangular)			

## Sandy Soil Criteria Test

Trial No.	Start Time	Stop Time	Time Interval (min.)	Initial Depth to Water (in.)	Final Depth to Water (in.)	Change in Water Level (in.)	Greater than or Equal to 6"? (Y/N)	Remarks

Note: If two consecutive measurements show that six inches of water seeps away in less than 25 minutes, the test shall be run for an additional hour with measurements taken every 10 minutes. Other wise, pre-soak (fill) overnight. Obtain at least twelve measurements per hole over at least six hours (approximately 30 minutes intervals) with a precision of at least 0.25".

Trial No.	Start Time	Stop Time	Time Interval $\Delta t$ (min.)	Initial Depth to Water $D_0$ (in.)	Final Depth to Water $D_f$ (in.)	Change in Water Level $\Delta D$ (in.)	Percolation Rate $P_r$ (min./in.)	Remarks
1	10:00	10:30	30	0	15	15	2.00	
2	10:30	11:00	30	15	22.8	7.8	3.85	
3	11:00	11:30	30	22.8	29	6.2	4.84	
4	11:30	12:00	30	29	32.5	3.5	8.57	
5	12:00	12:30	30	32.5	36	3.5	8.57	
6	12:30	13:00	30	36	38.1	2.1	14.29	
7	13:00	13:30	30	38.1	39.3	1.2	25.00	
8	13:30	14:00	30	39.3	40.5	1.2	25.00	
9	14:00	14:30	30	40.5	41.15	0.65	46.15	
10	14:30	15:00	30	41.15	41.66	0.51	58.82	
11	15:00	15:30	30	41.60	42.15	0.55	54.55	
12	15:30	16:00	30	42.15	42.7	0.55	54.55	

COMMENTS: Sunny, Temp 81F, clear.

# Infiltration Rate Calculation

## The Data Collected at The Final Interval

Time interval $\Delta t$ (min.)	Initial Depth to Water $D_0$ (in.)	Final Depth to Water $D_f$ (in.)	Total Depth of Test Hole $DT$ (In.)	Test Hole Radius $r$ (in.)
30	42.15	42.7	60	4

## Tested Infiltration Rate

$H_0$	$H_f$	$\Delta H$	$H_{avg}$	$I_t$ (in./hour)
17.85	17.3	0.55	17.58	0.11

Note:

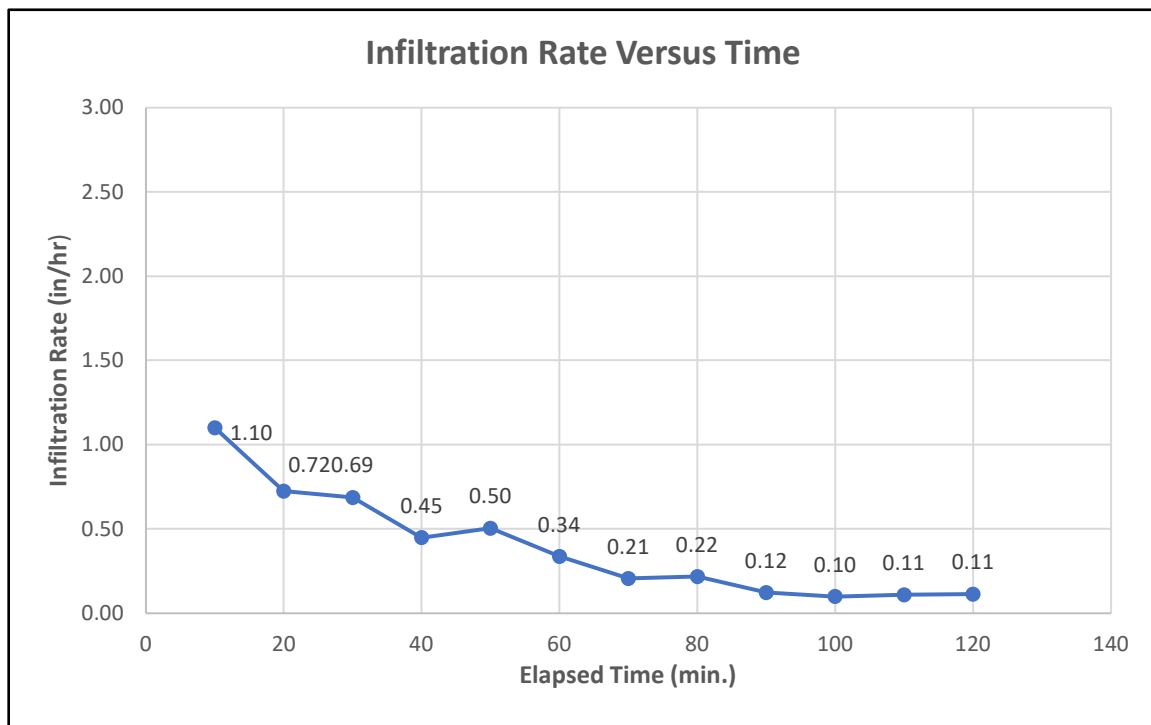
$H_0$  is the initial height of water at the selected time interval.

$H_f$  is the final height of water at the selected time interval.

$\Delta H$  is the change in height over the time interval.

$H_{avg}$  is the average head height over the time interval.

$I_t$  is the tested infiltration rate.



COMMENTS:



Worksheet H: Factor of Safety and Design Infiltration Rate Worksheet

Infiltration Rate		Design Infiltration Rate	Factor of Safety	Design Infiltration Rate	Factor of Safety
1	Infiltration Rate	Design Infiltration Rate	2	3	7
		Design Infiltration Rate	2		2
		Design Infiltration Rate	2	3	7
		Design Infiltration Rate	2		2
		Design Infiltration Rate			
2	Design Infiltration Rate	Design Infiltration Rate	2		2
		Design Infiltration Rate	2	3	7
		Design Infiltration Rate	2	2	
		Design Infiltration Rate	2		2
		Design Infiltration Rate			
Design Infiltration Rate					3
Design Infiltration Rate					
Design Infiltration Rate					7

**Supporting Data**

Infiltration rate was obtained using the online resource WebSoilSurvey for this PWQMP. The soils data can be seen in Appendix 3 of this report.

**Note:** The design infiltration rate is based on the design infiltration rate of 2 in per day.

# Appendix 4: Historical Site Conditions

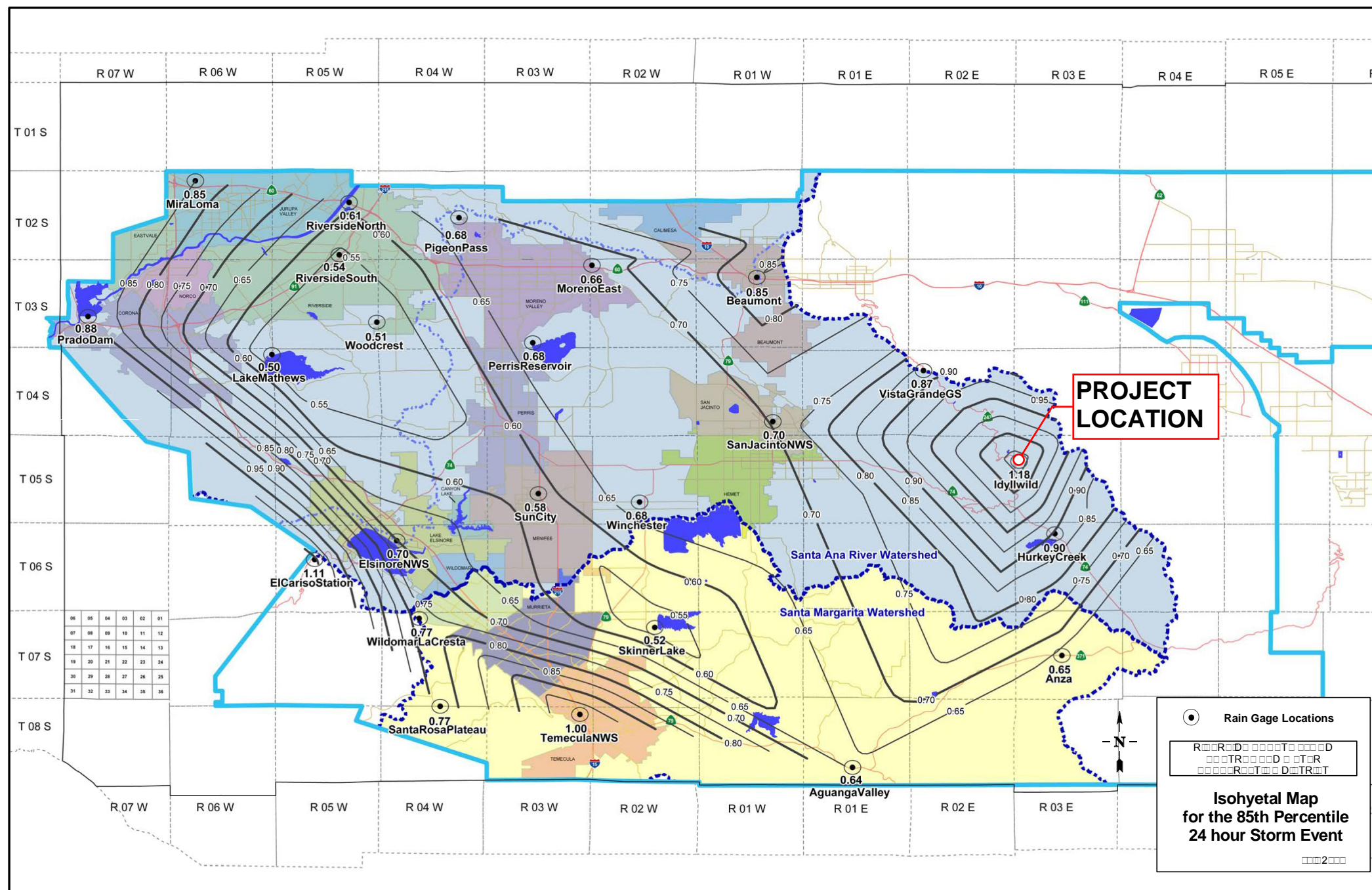
*Phase I Environmental Site Assessment or Other Information on Past Site Use*

# Appendix 5: LID Infeasibility

*LID Technical Infeasibility Analysis*

# Appendix 6: BMP Design Details

*BMP Sizing, Design Details and other Supporting Documentation*



**PROJECT  
LOCATION**

06	05	04	03	02	01
07	08	09	10	11	12
13	14	15	16	17	18
19	20	21	22	23	24
25	26	27	28	29	30
31	32	33	34	35	36

● Rain Gage Locations

R R R R D D D D T T D D D  
 D D T R D D D D D T R  
 D D D R T T D D D T R T

**Isohyetal Map  
for the 85th Percentile  
24 hour Storm Event**

□□□2□□

STEWART IDYLLWILD PWQMP - DMAs					
		FT <sup>2</sup>	AC	%	DESCRIPTION
EXISTING CONDITION	A <sub>T</sub> =	70,234	1.61	---	PARTIALLY DEVELOPED
	A <sub>PERV</sub> =	37948	0.87	54.0%	
	A <sub>IMP</sub> =	32286	0.74	46.0%	
DMA 1	A <sub>T</sub> =	46336	1.06	---	PARTIALLY DEVELOPED
	A <sub>PERV</sub> =	18719	0.43	40.4%	
	A <sub>IMP</sub> =	27617	0.63	59.6%	
DMA 2	A <sub>T</sub> =	23898	0.55	---	PARTIALLY DEVELOPED
	A <sub>PERV</sub> =	19237	0.44	80.5%	
	A <sub>IMP</sub> =	4661	0.11	19.5%	
PROPOSED CONDITION	A <sub>T</sub> =	70234	1.61	---	COMBINATION OF: COMMERCIAL LANDSCAPING AND PCC/AC PAVEMENT
	A <sub>PERV</sub> =	6087	0.14	8.7%	
	A <sub>IMP</sub> =	64147	1.47	91.3%	
DMA 1	A <sub>T</sub> =	46336	1.06	---	COMBINATION OF: COMMERCIAL LANDSCAPING AND PCC/AC PAVEMENT
	A <sub>PERV</sub> =	7173	0.16	15.5%	
	A <sub>IMP</sub> =	39163	0.90	84.5%	
DMA 2	A <sub>T</sub> =	23898	0.55	---	COMBINATION OF: COMMERCIAL LANDSCAPING AND PCC/AC PAVEMENT
	A <sub>PERV</sub> =	2146	0.05	9.0%	
	A <sub>IMP</sub> =	21752	0.50	91.0%	

**Santa Ana Watershed - BMP Design Volume,  $V_{BMP}$**

(Rev. 10-2011)

Legend:

Required Entries

Calculated Cells

*(Note this worksheet shall **only** be used in conjunction with BMP designs from the **LID BMP Design Handbook**)*

Company Name **SITETECH INC.**

Date

Designed by **BAM**

Case No

Company Project Number/Name

**STEWART IDYLLWILD - DA1**

**BMP Identification**

BMP NAME / ID **INFILTRATION BASIN (BMP1)**

*Must match Name/ID used on BMP Design Calculation Sheet*

**Design Rainfall Depth**

85th Percentile, 24-hour Rainfall Depth,  
from the Isohyetal Map in Handbook Appendix E

$D_{85}$  = **1.18** inches

**Drainage Management Area Tabulation**

*Insert additional rows if needed to accommodate all DMAs draining to the BMP*

DMA Type/ID	DMA Area (square feet)	Post-Project Surface Type	Effective Imperivous Fraction, $I_f$	DMA Runoff Factor	DMA Areas x Runoff Factor	Design Storm Depth (in)	Design Capture Volume, $V_{BMP}$ (cubic feet)	Proposed Volume on Plans (cubic feet)
DMA 1a	7173	Ornamental Landscaping	0.1	0.11	792.3			
DMA 1b	18188	Roofs	1	0.89	16223.7			
DMA 1c	20975	Concrete or Asphalt	1	0.89	18709.7			
<b>46336</b>		<b>Total</b>			<b>35725.7</b>	<b>1.18</b>	<b>3513</b>	<b>3542</b>

Notes:

**Santa Ana Watershed - BMP Design Volume,  $V_{BMP}$**   
(Rev. 10-2011)

Legend:  Required Entries  
 Calculated Cells

*(Note this worksheet shall **only** be used in conjunction with BMP designs from the **LID BMP Design Handbook**)*

Company Name SITETECH INC. Date \_\_\_\_\_  
 Designed by BAM Case No \_\_\_\_\_  
 Company Project Number/Name STEWART IDYLLWILD - DA2

**BMP Identification**

BMP NAME / ID INFILTRATION BASIN (BMP2)  
*Must match Name/ID used on BMP Design Calculation Sheet*

**Design Rainfall Depth**

85th Percentile, 24-hour Rainfall Depth,  $D_{85}$  = 1.18 inches  
 from the Isohyetal Map in Handbook Appendix E

**Drainage Management Area Tabulation**

*Insert additional rows if needed to accommodate all DMAs draining to the BMP*

DMA Type/ID	DMA Area (square feet)	Post-Project Surface Type	Effective Imperivous Fraction, $I_f$	DMA Runoff Factor	DMA Areas x Runoff Factor	Design Storm Depth (in)	Design Capture Volume, $V_{BMP}$ (cubic feet)	Proposed Volume on Plans (cubic feet)
DMA 1a	2145	Ornamental Landscaping	0.1	0.11	236.9			
DMA 1b	10360	Roofs	1	0.89	9241.1			
DMA 1c	11392	Concrete or Asphalt	1	0.89	10161.7			
<b>23897</b>		<b>Total</b>			<b>19639.7</b>	<b>1.18</b>	<b>1931.2</b>	<b>2034</b>

Notes:



Infiltration Trench - Design Procedure		BMP ID	Legend:	Required Entries
		DA1		Calculated Cells
Company Name:	SITETECH, INC.		Date:	8/12/2021
Designed by:	B.A.M.		County/City Case No.:	CUP1960065
Design Volume				
Enter the area tributary to this feature, Max = 10 acres			$A_t =$	1 acres
Enter $V_{BMP}$ determined from Section 2.1 of this Handbook			$V_{BMP} =$	3,513 ft <sup>3</sup>
Calculate Maximum Depth of the Reservoir Layer				
Enter Infiltration rate			$I =$	3.8 in/hr
Enter Factor of Safety, FS (unitless)			$FS =$	4
<i>Obtain from Table 1, Appendix A: "Infiltration Testing" of this BMP Handbook</i>				
Calculate $D_1$ .			$D_1 =$	16.29 ft
$D_1 = \frac{I \text{ (in/hr)} \times 72 \text{ hrs}}{12 \text{ (in/ft)} \times (n / 100) \times FS}$				
Enter depth to historic high groundwater mark (measured from finished grade)				20 ft
Enter depth to top of bedrock or impermeable layer (measured from finished grade)				20 ft
$D_2$ is the smaller of:				
Depth to groundwater - 11 ft; & Depth to impermeable layer - 6 ft			$D_2 =$	9.0 ft
$D_{MAX}$ is the smaller value of $D_1$ and $D_2$ , must be less than or equal to 8 feet.			$D_{MAX} =$	8.0 ft
Trench Sizing				
Enter proposed reservoir layer depth $D_R$ , must be $\leq D_{MAX}$			$D_R =$	6.00 ft
Calculate the design depth of water, $d_w$				
Design $d_w = (D_R) \times (n/100)$			Design $d_w =$	2.40 ft
Minimum Surface Area, $A_S$			$A_S =$	1,464 ft <sup>2</sup>
$A_S = \frac{V_{BMP}}{d_w}$				
Proposed Design Surface Area			$A_D =$	1,487 ft <sup>2</sup>
Minimum Width = $D_R + 1$ foot pea gravel				7.00 ft
Sediment Control Provided? (Use pulldown)		Yes		
Geotechnical report attached? (Use pulldown)		Yes		
If the trench has been designed correctly, there should be no error messages on the spreadsheet.				

Infiltration Trench - Design Procedure		BMP ID	Legend:	Required Entries
		DMA2		Calculated Cells
Company Name:	SITETECH, INC.		Date:	8/12/2021
Designed by:	B.A.M.		County/City Case No.:	CUP1960065
Design Volume				
Enter the area tributary to this feature, Max = 10 acres			$A_t =$	1 acres
Enter $V_{BMP}$ determined from Section 2.1 of this Handbook			$V_{BMP} =$	1,931 ft <sup>3</sup>
Calculate Maximum Depth of the Reservoir Layer				
Enter Infiltration rate			$I =$	2.4 in/hr
Enter Factor of Safety, FS (unitless)			$FS =$	4
<i>Obtain from Table 1, Appendix A: "Infiltration Testing" of this BMP Handbook</i>				
Calculate $D_1$ .			$D_1 =$	10.16 ft
$D_1 = \frac{I \text{ (in/hr)} \times 72 \text{ hrs}}{12 \text{ (in/ft)} \times (n / 100) \times FS}$			$n =$	40 %
Enter depth to historic high groundwater mark (measured from finished grade)				20 ft
Enter depth to top of bedrock or impermeable layer (measured from finished grade)				20 ft
$D_2$ is the smaller of:				
Depth to groundwater - 11 ft; & Depth to impermeable layer - 6 ft			$D_2 =$	9.0 ft
$D_{MAX}$ is the smaller value of $D_1$ and $D_2$ , must be less than or equal to 8 feet.			$D_{MAX} =$	8.0 ft
Trench Sizing				
Enter proposed reservoir layer depth $D_R$ , must be $\leq D_{MAX}$			$D_R =$	6.00 ft
Calculate the design depth of water, $d_w$				
Design $d_w = (D_R) \times (n/100)$			Design $d_w =$	2.40 ft
Minimum Surface Area, $A_S$			$A_S =$	805 ft <sup>2</sup>
$A_S = \frac{V_{BMP}}{d_w}$				
Proposed Design Surface Area			$A_D =$	895 ft <sup>2</sup>
Minimum Width = $D_R + 1$ foot pea gravel				7.00 ft
Sediment Control Provided? (Use pulldown)		Yes		
Geotechnical report attached? (Use pulldown)		Yes		
If the trench has been designed correctly, there should be no error messages on the spreadsheet.				

**INFILTRATION TRENCH VOLUME CALCS**

<b>INFILTRATION TRENCH DM1</b>	
	DA1
Infiltration Surface Area (ft <sup>2</sup> )	1487
Gavel Depth @ 40% porosity (ft)	6.0
Total Basin Volume (ft <sup>3</sup> )	3569

TOTAL VOLUME = (1487 X 6) X 40%

<b>INFILTRATION TRENCH DM2</b>	
	DA1
Infiltration Surface Area (ft <sup>2</sup> )	895
Gavel Depth @ 40% porosity (ft)	6.0
Total Basin Volume (ft <sup>3</sup> )	2148

TOTAL VOLUME = (895 X 6) X 40%

<b>INFILTRATION TRENCH DA1</b>	
	DA1
V <sub>storage</sub> (ft <sup>3</sup> )	3568
Infiltration Rate (in/hr)	3.8
Factory of Safety	3.50
Design Infiltration Rate (in/hr)	1.09
Infiltration Surface Area (ft <sup>2</sup> )	1487
BMP Drawdown Time (Hr)	26.5
	<b>Okay</b>

<b>INFILTRATION TRENCH DA2</b>	
	DA2
V <sub>storage</sub> (ft <sup>3</sup> )	2148
Infiltration Rate (in/hr)	2.4
Factory of Safety	3.50
Design Infiltration Rate (in/hr)	0.68
Infiltration Surface Area (ft <sup>2</sup> )	895
BMP Drawdown Time (Hr)	42.5
	<b>Okay</b>

# Appendix 7: Hydromodification

*Supporting Detail Relating to Hydrologic Conditions of Concern*

**PRELIMINARY DRAINAGE STUDY**

PREPARED FOR:

**RUSTIC RENTALS, LLC**

PINEWOODS RESIDENCES  
25840 IDYLLWILD HIGHWAY

IDYLLWILD AREA  
COUNTY OF RIVERSIDE

PREPARED BY:

SITETECH, INC.  
8061 CHURCH STREET  
HIGHLAND CA 92346  
PO BOX 592  
PH. (909) 864-3180



BERNHARD K. MAYER

R.C.E. 36866

08/12/2021

DATE

# **SUMMARY**

## **INTRODUCTION**

The project is a new commercial development on a vacant 2.35 acre site located in the unincorporated area of Idyllwild, County of Riverside. 38 residential apartments are proposed and will add approximately 42,000 s.f. of impervious surface (including but not limited to: roof area, walkways, parking lot and entry ways). The purpose of this study is to determine the rate of storm water runoff which will flow through the property during a 2-Year & 100-Year storm event and determine any mitigations which are necessary to protect the proposed development during a 100-Year Storm. This study will also determine the difference in runoff volume between the existing and proposed site conditions.

## **EXISTING WATERSHED DESCRIPTION**

In its existing condition the runoff from the site sheet flows from the northeast to southwest a portion of the runoff outlets onto Oakwood Street and a portion of the runoff outlets onto Idyllwild Highway.

## **PROPOSED WATERSHED DESCRIPTION**

In its proposed condition the undeveloped areas will sheet flow from northeast to southwest and will be conveyed to a series of v-gutters to divert the runoff away from the development and will outlet onto Idyllwild Highway. Runoff from the developed areas will be conveyed to a series of curb and gutters, and storm drains. The gutters and storm drains will convey the runoff to WQMP infiltration trenches before it outlets onto Oakwood Street and Idyllwild Highway maintaining the existing drainage pattern.

## **METHODOLOGY**

### **Rational Method**

The following scenario was modeled:

Existing & Developed Condition, 2-year & 100-year storm

Rainfall depth was derived from the rational method hydrology computer program based on Riverside County Flood Control & Water Conservation District

Rational Method computations were performed using Advanced Engineering Software (aes), ver. 15.0, based on the Hydrology Manual. Discharge was calculated by the software, based on user input of rainfall, soil type, acreage, and land use parameters.

Printouts of the rational method calculations, as well as applicable plates from the Manual, are included in this report.

# CONCLUSIONS

This drainage study and the calculations presented herein demonstrate the following:

## TOTAL RUNOFF LEAVING THE SITE:

### 400 NODES

EXISTING Q2 = 2.97 CFS                      PROPOSED Q2 = 3.30 CFS  
EXISTING Q100 = 6.78 CFS                  PROPOSED Q100 = 7.48 CFS

### 500 NODES

EXISTING Q2 = 2.67 CFS                      PROPOSED Q2 = 2.67 CFS  
EXISTING Q100 = 6.24 CFS                  PROPOSED Q100 = 6.24 CFS

### 600 NODES

EXISTING Q2 = 1.31 CFS                      PROPOSED Q2 = 1.77 CFS  
EXISTING Q100 = 3.12 CFS                  PROPOSED Q100 = 4.01 CFS

## HCOC MITIGATION

### 400 NODES

EXISTING VOLUME = 1,364 FT<sup>3</sup>                  PROPOSED VOLUME = 1,934 FT<sup>3</sup>  
(SEE HYDROGRAPHS FOR MORE INFO)

PROPOSED VOLUME: 1,934 FT<sup>3</sup> < 3,569 FT<sup>3</sup> (PROVIDED TRENCH VOLUME) = OK

### 500 NODES

NO MITIGATION REQUIRED – OFF-SITE / UNDISTURBED DRAINAGE AREA

### 600 NODES

EXISTING VOLUME = 264 FT<sup>3</sup>                      PROPOSED VOLUME = 1,104 FT<sup>3</sup>  
(SEE HYDROGRAPHS FOR MORE INFO)

PROPOSED VOLUME: 1,104 FT<sup>3</sup> < 2,148 FT<sup>3</sup> (PROVIDED TRENCH VOLUME) = OK

**ENTIRE 2 YEAR STORM VOLUMES WILL BE  
CAPTURED IN THE INFILTRATION TRENCHES**



**DRAINAGE MAPS**

IN THE COUNTY OF RIVERSIDE  
**DRAINAGE MAP**  
**EXISTING CONDITION**  
 RUSTIC RENTALS, LLC  
 PINEWOODS RESIDENCES

25840 IDYLLWILD HIGHWAY  
 IDYLLWILD, CA

THAT PORTION OF THE NORTHEAST QUARTER OF THE SOUTHWEST  
 QUARTER OF SECTION 7, TOWNSHIP 5 SOUTH, RANGE 3 EAST,  
 SAN BERNARDINO BASE AND MERIDIAN, IN THE COUNTY OF  
 RIVERSIDE, STATE OF CALIFORNIA.

SITETECH, INC.

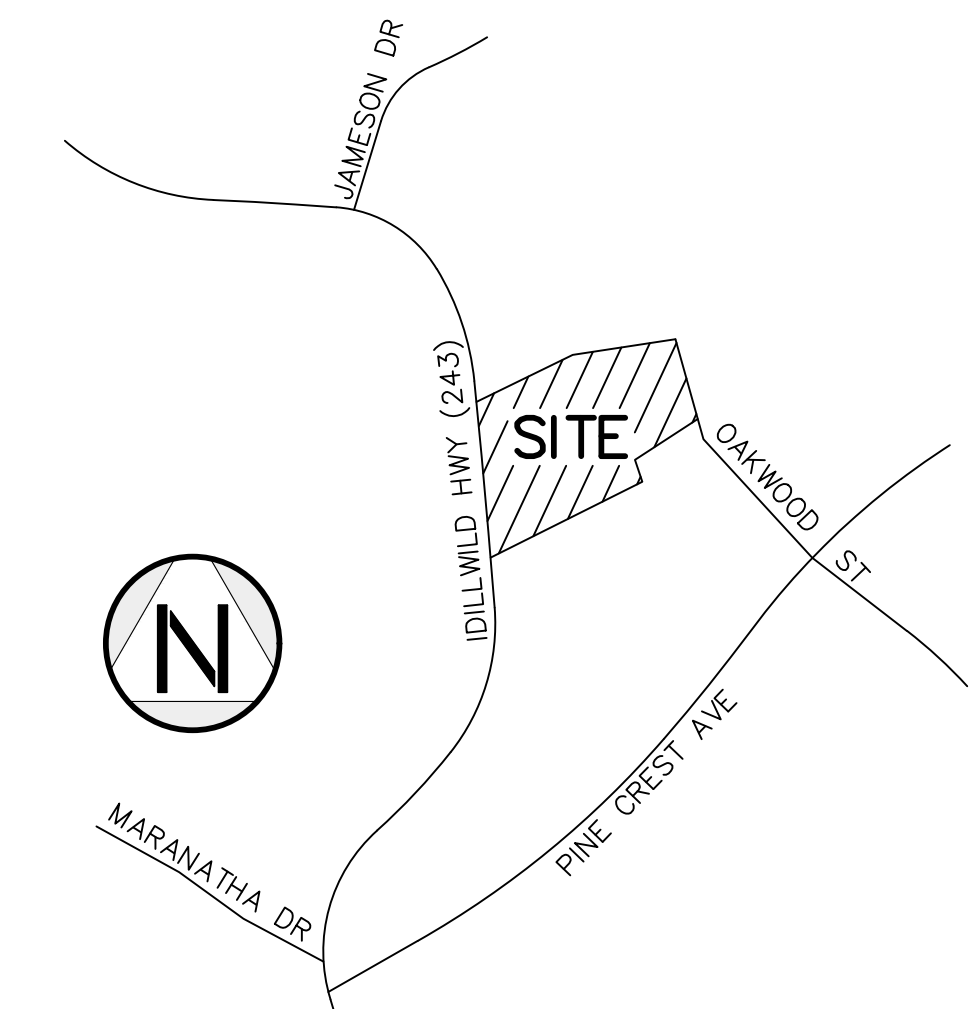
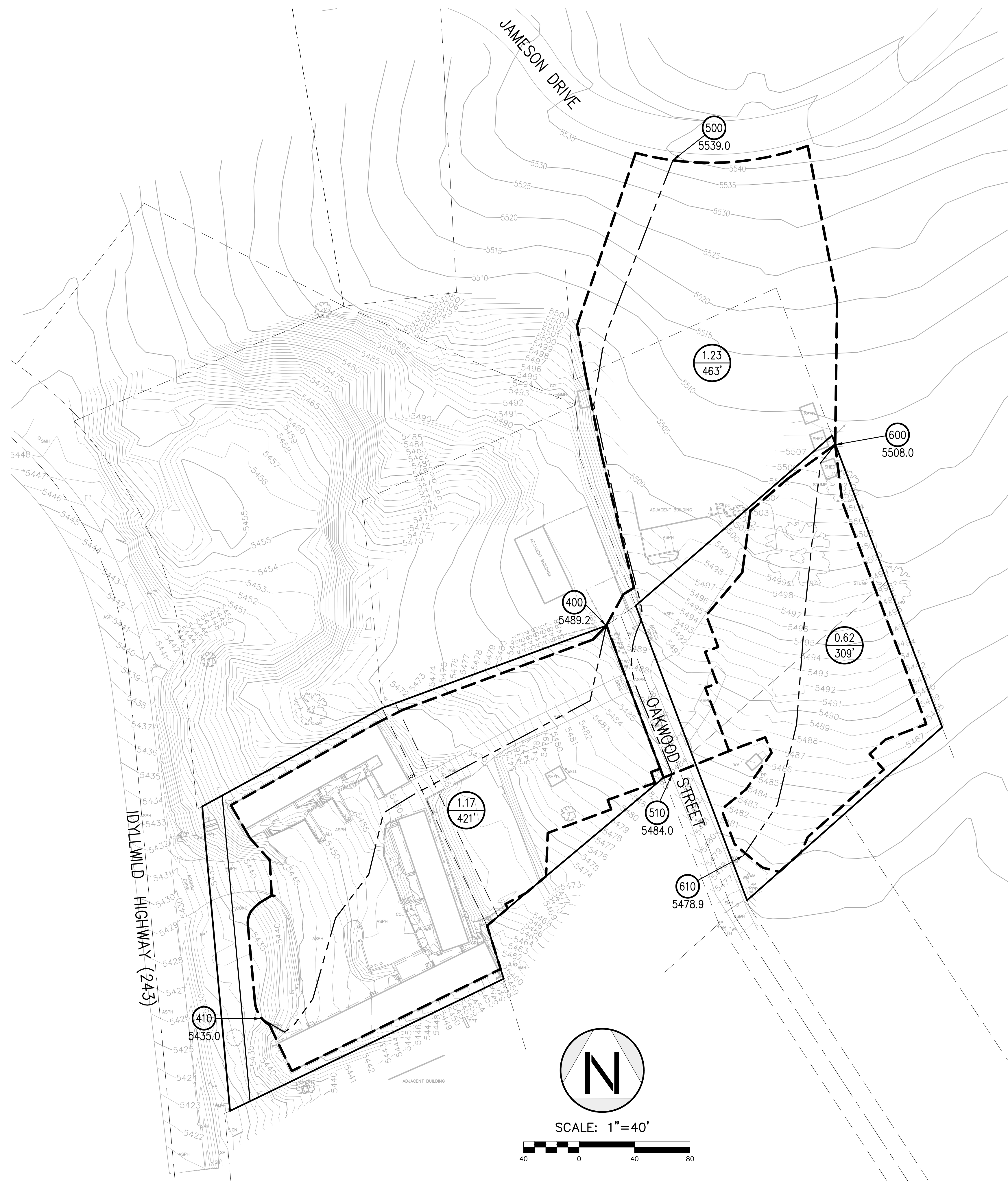
AUGUST 2021

**OWNER/APPLICANT:**

MR. SHANE STEWART  
 RUSTIC RENTALS, LLC  
 P.O. BOX 243  
 IDYLLWILD, CA 92549  
 PH: (951) 659-9505

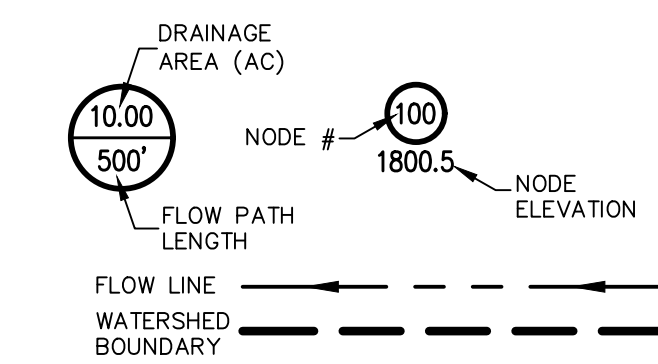
**ENGINEER/MAP PREPARER:**

SITETECH, INC.  
 8061 CHURCH ST.  
 PO BOX 592  
 HIGHLAND CA 92346  
 PH: (909) 864-3180



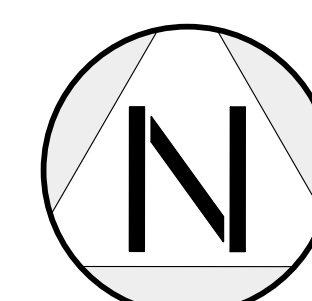
THOMAS BROTHERS GUIDE: PG. 814/D6  
 TOWNSHIP 5S, RANGE 3E, SEC. 7, S.B.M.  
**VICINITY MAP**  
 NO SCALE

**DRAINAGE LEGEND:**



**FLOW PROCESS CHART:**

FROM NODE	TO NODE	FROM ELEV	TO ELEV	Q (CFS) 2 YR/1 HR	Q (CFS) 100 YR/1 HR
400	410	5489.2	5435.0	2.97	6.78
500	510	5539.0	5484.0	2.67	6.24
600	610	5508.0	5478.9	1.31	3.12



SCALE: 1"=40'



**SITETECH INC.**  
 8061 CHURCH ST., HIGHLAND CA 92346 PO BOX 592  
 PH: (909)864-3180, FAX: (909)864-0850  
 BERNHARD K. MAYER R.C.E. 36866 08/12/21  
 L.S. 7319 DATE

IN THE COUNTY OF RIVERSIDE  
**DRAINAGE MAP**  
**PROPOSED CONDITION**  
 RUSTIC RENTALS, LLC  
 PINEWOODS RESIDENCES

25840 IDYLLWILD HIGHWAY  
 IDYLLWILD, CA

THAT PORTION OF THE NORTHEAST QUARTER OF THE SOUTHWEST QUARTER OF SECTION 7, TOWNSHIP 5 SOUTH, RANGE 3 EAST, SAN BERNARDINO BASE AND MERIDIAN, IN THE COUNTY OF RIVERSIDE, STATE OF CALIFORNIA.

SITETECH, INC.

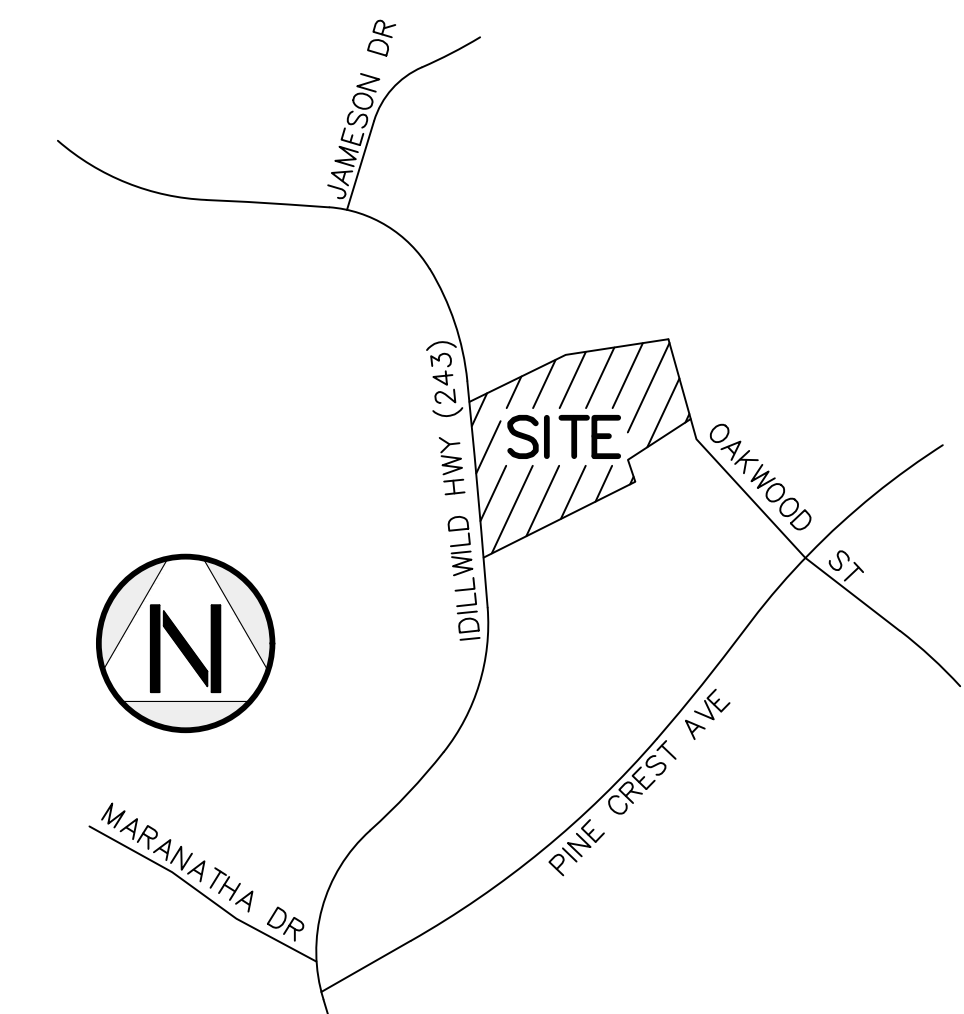
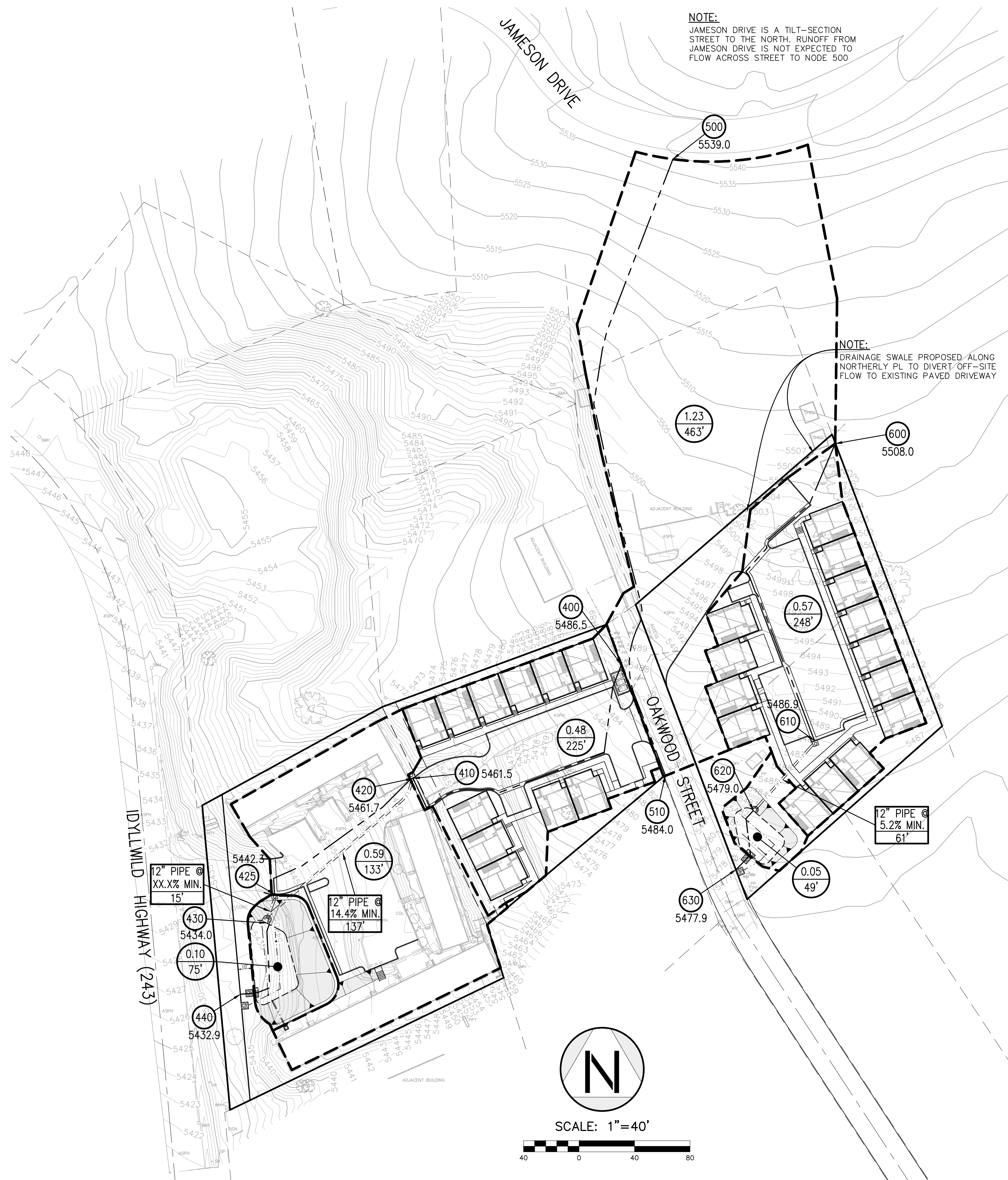
AUGUST 2021

**OWNER/APPLICANT:**

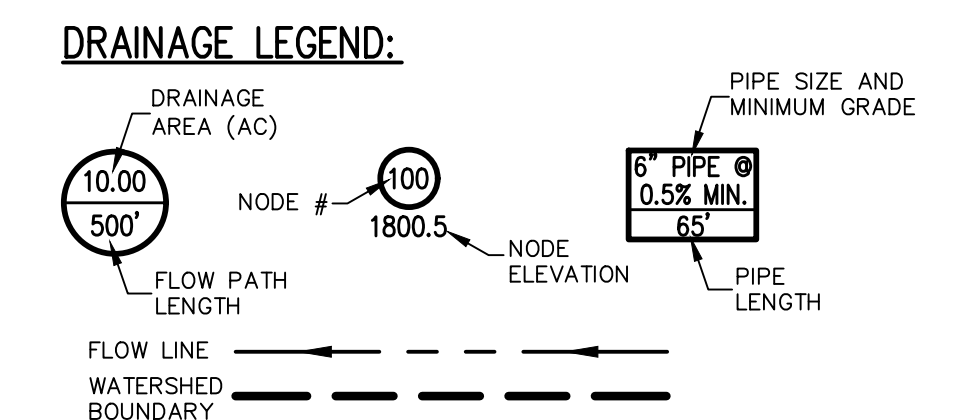
MR. SHANE STEWART  
 RUSTIC RENTALS, LLC  
 P.O. BOX 243  
 IDYLLWILD, CA 92549  
 PH: (951) 659-9505

**ENGINEER/MAP PREPARER:**

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THOMAS BROTHERS GUIDE: PG. 814/D6  
 TOWNSHIP 5S, RANGE 3E, SEC. 7, S.B.M.



**FLOW PROCESS CHART:**

FROM NODE	TO NODE	FROM ELEV	TO ELEV	Q (CFS) 2 YR/1 HR	Q (CFS) 100 YR/1 HR
400	410	5486.5	5461.5	1.39	3.13
410	430	5461.5	5436.5	1.39	3.13
420	425	5461.7	5442.3	1.71	3.85
425	430	5438.3	5434.0	1.71	3.85
430	430	5434.0	5434.0	3.06	6.89
430	440	5434.0	5432.9	3.30	7.48
500	510	5539.0	5484.0	2.67	6.24
600	610	5508.0	5486.9	1.65	3.72
610	620	5482.9	5479.0	1.65	3.72
620	630	5479.0	5477.9	1.77	4.01

P - INDICATES PIPE FLOW



**SITETECH INC.**  
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Bernhard K. Mayer  
 R.C.E. 36866  
 L.S. 7319

08/12/21  
 DATE

**HYDROLOGY**

\*\*\*\*\*

RATIONAL METHOD HYDROLOGY COMPUTER PROGRAM BASED ON  
RIVERSIDE COUNTY FLOOD CONTROL & WATER CONSERVATION DISTRICT  
(RCFC&WCD) 1978 HYDROLOGY MANUAL  
(c) Copyright 1982-2016 Advanced Engineering Software (aes)  
(Rational Tabling Version 23.0)  
Release Date: 07/01/2016 License ID 1524

Analysis prepared by:

SITETECH, INC.  
8061 CHURCH STREET, P.O. 592  
HIGHLAND, CA 92346  
PH: (909) 864-3180

\*\*\*\*\* DESCRIPTION OF STUDY \*\*\*\*\*  
\* 2 YEAR - 1 HOUR DESIGN STORM \*  
\* RUSTIC RENTALS - 25840 IDYLLWILD HWY \*  
\* EXISTING CONDITION \*  
\*\*\*\*\*

FILE NAME: STEW2E.DAT  
TIME/DATE OF STUDY: 11:12 07/15/2021

-----  
USER SPECIFIED HYDROLOGY AND HYDRAULIC MODEL INFORMATION:  
-----

USER SPECIFIED STORM EVENT (YEAR) = 2.00  
SPECIFIED MINIMUM PIPE SIZE (INCH) = 6.00  
SPECIFIED PERCENT OF GRADIENTS (DECIMAL) TO USE FOR FRICTION SLOPE = 0.95  
10-YEAR STORM 10-MINUTE INTENSITY (INCH/HOUR) = 3.430  
10-YEAR STORM 60-MINUTE INTENSITY (INCH/HOUR) = 1.350  
100-YEAR STORM 10-MINUTE INTENSITY (INCH/HOUR) = 5.080  
100-YEAR STORM 60-MINUTE INTENSITY (INCH/HOUR) = 2.000  
SLOPE OF 10-YEAR INTENSITY-DURATION CURVE = 0.5204133  
SLOPE OF 100-YEAR INTENSITY-DURATION CURVE = 0.5202506

COMPUTED RAINFALL INTENSITY DATA:

STORM EVENT = 2.00 1-HOUR INTENSITY (INCH/HOUR) = 0.896  
SLOPE OF INTENSITY DURATION CURVE = 0.5204

RCFC&WCD HYDROLOGY MANUAL "C"-VALUES USED FOR RATIONAL METHOD

NOTE: COMPUTE CONFLUENCE VALUES ACCORDING TO RCFC&WCD HYDROLOGY MANUAL  
AND IGNORE OTHER CONFLUENCE COMBINATIONS FOR DOWNSTREAM ANALYSES

\*USER-DEFINED STREET-SECTIONS FOR COUPLED PIPEFLOW AND STREETFLOW MODEL\*

NO.	HALF- CROWN TO		STREET-CROSSFALL:			CURB GUTTER-GEOMETRIES:			MANNING FACTOR (n)	
	WIDTH (FT)	CROSSFALL (FT)	IN- SIDE	/ OUT- SIDE/	PARK- WAY	HEIGHT (FT)	WIDTH (FT)	LIP (FT)		HIKE (FT)
1	30.0	20.0	0.018	/ 0.018	/ 0.020	0.67	2.00	0.0313	0.167	0.0150

GLOBAL STREET FLOW-DEPTH CONSTRAINTS:

1. Relative Flow-Depth = 0.00 FEET  
as (Maximum Allowable Street Flow Depth) - (Top-of-Curb)
2. (Depth)\*(Velocity) Constraint = 6.0 (FT\*FT/S)

\*SIZE PIPE WITH A FLOW CAPACITY GREATER THAN  
OR EQUAL TO THE UPSTREAM TRIBUTARY PIPE.\*

\*\*\*\*\*

FLOW PROCESS FROM NODE 400.00 TO NODE 410.00 IS CODE = 21

>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<

=====

ASSUMED INITIAL SUBAREA UNIFORM  
DEVELOPMENT IS CONDOMINIUM

TC =  $K * [(LENGTH^{**3}) / (ELEVATION CHANGE)]^{**2}$   
INITIAL SUBAREA FLOW-LENGTH (FEET) = 421.00  
UPSTREAM ELEVATION (FEET) = 5489.20  
DOWNSTREAM ELEVATION (FEET) = 5435.00  
ELEVATION DIFFERENCE (FEET) = 54.20  
TC =  $0.359 * [(421.00^{**3}) / (54.20)]^{**2} = 6.069$   
2 YEAR RAINFALL INTENSITY (INCH/HOUR) = 2.951  
CONDOMINIUM DEVELOPMENT RUNOFF COEFFICIENT = .8588  
SOIL CLASSIFICATION IS "D"  
SUBAREA RUNOFF (CFS) = 2.97  
TOTAL AREA (ACRES) = 1.17 TOTAL RUNOFF (CFS) = 2.97

\*\*\*\*\*  
FLOW PROCESS FROM NODE 500.00 TO NODE 510.00 IS CODE = 21

>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<

=====

ASSUMED INITIAL SUBAREA UNIFORM  
DEVELOPMENT IS SINGLE FAMILY (1/2 ACRE)

TC =  $K * [(LENGTH^{**3}) / (ELEVATION CHANGE)]^{**2}$   
INITIAL SUBAREA FLOW-LENGTH (FEET) = 463.00  
UPSTREAM ELEVATION (FEET) = 5539.00  
DOWNSTREAM ELEVATION (FEET) = 5484.00  
ELEVATION DIFFERENCE (FEET) = 55.00  
TC =  $0.422 * [(463.00^{**3}) / (55.00)]^{**2} = 7.528$   
2 YEAR RAINFALL INTENSITY (INCH/HOUR) = 2.638  
SINGLE-FAMILY (1/2 ACRE LOT) RUNOFF COEFFICIENT = .8221  
SOIL CLASSIFICATION IS "D"  
SUBAREA RUNOFF (CFS) = 2.67  
TOTAL AREA (ACRES) = 1.23 TOTAL RUNOFF (CFS) = 2.67

\*\*\*\*\*  
FLOW PROCESS FROM NODE 600.00 TO NODE 610.00 IS CODE = 21

>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<

=====

ASSUMED INITIAL SUBAREA UNIFORM  
DEVELOPMENT IS SINGLE FAMILY (1-ACRE LOTS)

TC =  $K * [(LENGTH^{**3}) / (ELEVATION CHANGE)]^{**2}$   
INITIAL SUBAREA FLOW-LENGTH (FEET) = 309.00  
UPSTREAM ELEVATION (FEET) = 5508.00  
DOWNSTREAM ELEVATION (FEET) = 5478.90  
ELEVATION DIFFERENCE (FEET) = 29.10  
TC =  $0.469 * [(309.00^{**3}) / (29.10)]^{**2} = 7.458$   
2 YEAR RAINFALL INTENSITY (INCH/HOUR) = 2.651  
SINGLE-FAMILY (1-ACRE LOT) RUNOFF COEFFICIENT = .7966  
SOIL CLASSIFICATION IS "D"  
SUBAREA RUNOFF (CFS) = 1.31  
TOTAL AREA (ACRES) = 0.62 TOTAL RUNOFF (CFS) = 1.31

=====

END OF STUDY SUMMARY:

TOTAL AREA (ACRES) = 0.6 TC (MIN.) = 7.46  
PEAK FLOW RATE (CFS) = 1.31

=====

END OF RATIONAL METHOD ANALYSIS

\*\*\*\*\*

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Release Date: 07/01/2016 License ID 1524

Analysis prepared by:

SITETECH, INC.  
8061 CHURCH STREET, P.O. 592  
HIGHLAND, CA 92346  
PH: (909) 864-3180

\*\*\*\*\* DESCRIPTION OF STUDY \*\*\*\*\*  
\* 100 YEAR - 1 HOUR DESIGN STORM \*  
\* RUSTIC RENTALS - 25840 IDYLLWILD HWY \*  
\* EXISTING CONDITION \*  
\*\*\*\*\*

FILE NAME: STEW100E.DAT  
TIME/DATE OF STUDY: 11:09 07/15/2021

-----  
USER SPECIFIED HYDROLOGY AND HYDRAULIC MODEL INFORMATION:  
-----

USER SPECIFIED STORM EVENT (YEAR) = 100.00  
SPECIFIED MINIMUM PIPE SIZE (INCH) = 6.00  
SPECIFIED PERCENT OF GRADIENTS (DECIMAL) TO USE FOR FRICTION SLOPE = 0.95  
10-YEAR STORM 10-MINUTE INTENSITY (INCH/HOUR) = 3.430  
10-YEAR STORM 60-MINUTE INTENSITY (INCH/HOUR) = 1.350  
100-YEAR STORM 10-MINUTE INTENSITY (INCH/HOUR) = 5.080  
100-YEAR STORM 60-MINUTE INTENSITY (INCH/HOUR) = 2.000  
SLOPE OF 10-YEAR INTENSITY-DURATION CURVE = 0.5204133  
SLOPE OF 100-YEAR INTENSITY-DURATION CURVE = 0.5202506

COMPUTED RAINFALL INTENSITY DATA:  
STORM EVENT = 100.00 1-HOUR INTENSITY (INCH/HOUR) = 2.000  
SLOPE OF INTENSITY DURATION CURVE = 0.5203  
RCFC&WCD HYDROLOGY MANUAL "C"-VALUES USED FOR RATIONAL METHOD  
NOTE: COMPUTE CONFLUENCE VALUES ACCORDING TO RCFC&WCD HYDROLOGY MANUAL  
AND IGNORE OTHER CONFLUENCE COMBINATIONS FOR DOWNSTREAM ANALYSES  
\*USER-DEFINED STREET-SECTIONS FOR COUPLED PIPEFLOW AND STREETFLOW MODEL\*

NO.	HALF- CROWN TO		STREET-CROSSFALL:			CURB GUTTER-GEOMETRIES:			MANNING FACTOR (n)	
	WIDTH (FT)	CROSSFALL (FT)	IN- SIDE	OUT- SIDE	PARK- WAY	HEIGHT (FT)	WIDTH (FT)	LIP (FT)		HIKE (FT)
1	30.0	20.0	0.018	0.018	0.020	0.67	2.00	0.0313	0.167	0.0150

GLOBAL STREET FLOW-DEPTH CONSTRAINTS:  
1. Relative Flow-Depth = 0.00 FEET  
as (Maximum Allowable Street Flow Depth) - (Top-of-Curb)  
2. (Depth)\*(Velocity) Constraint = 6.0 (FT\*FT/S)  
\*SIZE PIPE WITH A FLOW CAPACITY GREATER THAN  
OR EQUAL TO THE UPSTREAM TRIBUTARY PIPE.\*

\*\*\*\*\*



FLOW PROCESS FROM NODE 400.00 TO NODE 410.00 IS CODE = 21

>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<

=====

ASSUMED INITIAL SUBAREA UNIFORM  
DEVELOPMENT IS CONDOMINIUM

TC =  $K * [(LENGTH^{**3}) / (ELEVATION CHANGE)]^{**2}$   
INITIAL SUBAREA FLOW-LENGTH (FEET) = 421.00  
UPSTREAM ELEVATION (FEET) = 5489.20  
DOWNSTREAM ELEVATION (FEET) = 5435.00  
ELEVATION DIFFERENCE (FEET) = 54.20  
TC =  $0.359 * [(421.00^{**3}) / (54.20)]^{**2} = 6.069$   
100 YEAR RAINFALL INTENSITY (INCH/HOUR) = 6.587  
CONDOMINIUM DEVELOPMENT RUNOFF COEFFICIENT = .8801  
SOIL CLASSIFICATION IS "D"  
SUBAREA RUNOFF (CFS) = 6.78  
TOTAL AREA (ACRES) = 1.17 TOTAL RUNOFF (CFS) = 6.78

\*\*\*\*\*

FLOW PROCESS FROM NODE 500.00 TO NODE 510.00 IS CODE = 21

>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<

=====

ASSUMED INITIAL SUBAREA UNIFORM  
DEVELOPMENT IS SINGLE FAMILY (1/2 ACRE)

TC =  $K * [(LENGTH^{**3}) / (ELEVATION CHANGE)]^{**2}$   
INITIAL SUBAREA FLOW-LENGTH (FEET) = 463.00  
UPSTREAM ELEVATION (FEET) = 5539.00  
DOWNSTREAM ELEVATION (FEET) = 5484.00  
ELEVATION DIFFERENCE (FEET) = 55.00  
TC =  $0.422 * [(463.00^{**3}) / (55.00)]^{**2} = 7.528$   
100 YEAR RAINFALL INTENSITY (INCH/HOUR) = 5.889  
SINGLE-FAMILY (1/2 ACRE LOT) RUNOFF COEFFICIENT = .8621  
SOIL CLASSIFICATION IS "D"  
SUBAREA RUNOFF (CFS) = 6.24  
TOTAL AREA (ACRES) = 1.23 TOTAL RUNOFF (CFS) = 6.24

\*\*\*\*\*

FLOW PROCESS FROM NODE 600.00 TO NODE 610.00 IS CODE = 21

>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<

=====

ASSUMED INITIAL SUBAREA UNIFORM  
DEVELOPMENT IS SINGLE FAMILY (1-ACRE LOTS)

TC =  $K * [(LENGTH^{**3}) / (ELEVATION CHANGE)]^{**2}$   
INITIAL SUBAREA FLOW-LENGTH (FEET) = 309.00  
UPSTREAM ELEVATION (FEET) = 5508.00  
DOWNSTREAM ELEVATION (FEET) = 5478.90  
ELEVATION DIFFERENCE (FEET) = 29.10  
TC =  $0.469 * [(309.00^{**3}) / (29.10)]^{**2} = 7.458$   
100 YEAR RAINFALL INTENSITY (INCH/HOUR) = 5.917  
SINGLE-FAMILY (1-ACRE LOT) RUNOFF COEFFICIENT = .8497  
SOIL CLASSIFICATION IS "D"  
SUBAREA RUNOFF (CFS) = 3.12  
TOTAL AREA (ACRES) = 0.62 TOTAL RUNOFF (CFS) = 3.12

=====

END OF STUDY SUMMARY:

TOTAL AREA (ACRES) = 0.6 TC (MIN.) = 7.46  
PEAK FLOW RATE (CFS) = 3.12

=====  
=====

END OF RATIONAL METHOD ANALYSIS

\*\*\*\*\*

RATIONAL METHOD HYDROLOGY COMPUTER PROGRAM BASED ON  
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Analysis prepared by:

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8061 CHURCH STREET, P.O. 592  
HIGHLAND, CA 92346  
PH: (909) 864-3180

\*\*\*\*\* DESCRIPTION OF STUDY \*\*\*\*\*  
\* 2 YEAR - 1 HOUR DESIGN STORM \*  
\* RUSTIC RENTALS - 25840 IDYLLWILD HWY \*  
\* PROPOSED CONDITION \*  
\*\*\*\*\*

FILE NAME: STEW2P.DAT  
TIME/DATE OF STUDY: 13:00 08/12/2021

-----  
USER SPECIFIED HYDROLOGY AND HYDRAULIC MODEL INFORMATION:  
-----

USER SPECIFIED STORM EVENT (YEAR) = 2.00  
SPECIFIED MINIMUM PIPE SIZE (INCH) = 6.00  
SPECIFIED PERCENT OF GRADIENTS (DECIMAL) TO USE FOR FRICTION SLOPE = 0.95  
10-YEAR STORM 10-MINUTE INTENSITY (INCH/HOUR) = 3.430  
10-YEAR STORM 60-MINUTE INTENSITY (INCH/HOUR) = 1.350  
100-YEAR STORM 10-MINUTE INTENSITY (INCH/HOUR) = 5.080  
100-YEAR STORM 60-MINUTE INTENSITY (INCH/HOUR) = 2.000  
SLOPE OF 10-YEAR INTENSITY-DURATION CURVE = 0.5204133  
SLOPE OF 100-YEAR INTENSITY-DURATION CURVE = 0.5202506

COMPUTED RAINFALL INTENSITY DATA:  
STORM EVENT = 2.00 1-HOUR INTENSITY (INCH/HOUR) = 0.896  
SLOPE OF INTENSITY DURATION CURVE = 0.5204

RCFC&WCD HYDROLOGY MANUAL "C"-VALUES USED FOR RATIONAL METHOD  
NOTE: COMPUTE CONFLUENCE VALUES ACCORDING TO RCFC&WCD HYDROLOGY MANUAL  
AND IGNORE OTHER CONFLUENCE COMBINATIONS FOR DOWNSTREAM ANALYSES

\*USER-DEFINED STREET-SECTIONS FOR COUPLED PIPEFLOW AND STREETFLOW MODEL\*

NO.	HALF- CROWN TO		STREET-CROSSFALL:			CURB GUTTER-GEOMETRIES:			MANNING FACTOR (n)	
	WIDTH (FT)	CROSSFALL (FT)	IN- SIDE	/ OUT- SIDE/	PARK- WAY	HEIGHT (FT)	WIDTH (FT)	LIP (FT)		HIKE (FT)
1	30.0	20.0	0.018	/ 0.018	/ 0.020	0.67	2.00	0.0313	0.167	0.0150

GLOBAL STREET FLOW-DEPTH CONSTRAINTS:  
1. Relative Flow-Depth = 0.00 FEET  
as (Maximum Allowable Street Flow Depth) - (Top-of-Curb)  
2. (Depth)\*(Velocity) Constraint = 6.0 (FT\*FT/S)  
\*SIZE PIPE WITH A FLOW CAPACITY GREATER THAN  
OR EQUAL TO THE UPSTREAM TRIBUTARY PIPE.\*

\*\*\*\*\*

FLOW PROCESS FROM NODE 400.00 TO NODE 410.00 IS CODE = 21

>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<

=====

ASSUMED INITIAL SUBAREA UNIFORM  
DEVELOPMENT IS COMMERCIAL

TC =  $K * [(LENGTH^{**3}) / (ELEVATION CHANGE)]^{**2}$   
INITIAL SUBAREA FLOW-LENGTH (FEET) = 225.00  
UPSTREAM ELEVATION (FEET) = 5486.50  
DOWNSTREAM ELEVATION (FEET) = 5461.50  
ELEVATION DIFFERENCE (FEET) = 25.00  
TC =  $0.303 * [(225.00^{**3}) / (25.00)]^{**2}$  = 4.105  
COMPUTED TIME OF CONCENTRATION INCREASED TO 5 MIN.  
2 YEAR RAINFALL INTENSITY (INCH/HOUR) = 3.264  
COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8892  
SOIL CLASSIFICATION IS "D"  
SUBAREA RUNOFF (CFS) = 1.39  
TOTAL AREA (ACRES) = 0.48 TOTAL RUNOFF (CFS) = 1.39

\*\*\*\*\*

FLOW PROCESS FROM NODE 410.00 TO NODE 430.00 IS CODE = 31

>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<  
>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW) <<<<<

=====

ELEVATION DATA: UPSTREAM (FEET) = 5461.50 DOWNSTREAM (FEET) = 5436.50  
FLOW LENGTH (FEET) = 137.00 MANNING'S N = 0.013  
DEPTH OF FLOW IN 6.0 INCH PIPE IS 3.3 INCHES  
PIPE-FLOW VELOCITY (FEET/SEC.) = 12.40  
ESTIMATED PIPE DIAMETER (INCH) = 6.00 NUMBER OF PIPES = 1  
PIPE-FLOW (CFS) = 1.39  
PIPE TRAVEL TIME (MIN.) = 0.18 Tc (MIN.) = 5.18  
LONGEST FLOWPATH FROM NODE 400.00 TO NODE 430.00 = 362.00 FEET.

\*\*\*\*\*

FLOW PROCESS FROM NODE 430.00 TO NODE 430.00 IS CODE = 1

>>>>DESIGNATE INDEPENDENT STREAM FOR CONFLUENCE<<<<<

=====

TOTAL NUMBER OF STREAMS = 2  
CONFLUENCE VALUES USED FOR INDEPENDENT STREAM 1 ARE:  
TIME OF CONCENTRATION (MIN.) = 5.18  
RAINFALL INTENSITY (INCH/HR) = 3.20  
TOTAL STREAM AREA (ACRES) = 0.48  
PEAK FLOW RATE (CFS) AT CONFLUENCE = 1.39

\*\*\*\*\*

FLOW PROCESS FROM NODE 420.00 TO NODE 425.00 IS CODE = 21

>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<

=====

ASSUMED INITIAL SUBAREA UNIFORM  
DEVELOPMENT IS COMMERCIAL

TC =  $K * [(LENGTH^{**3}) / (ELEVATION CHANGE)]^{**2}$   
INITIAL SUBAREA FLOW-LENGTH (FEET) = 133.00  
UPSTREAM ELEVATION (FEET) = 5461.70  
DOWNSTREAM ELEVATION (FEET) = 5442.30

ELEVATION DIFFERENCE (FEET) = 19.40  
 TC = 0.303 \* [( 133.00\*\*3) / ( 19.40)]\*\*0.2 = 3.150  
 COMPUTED TIME OF CONCENTRATION INCREASED TO 5 MIN.  
 2 YEAR RAINFALL INTENSITY (INCH/HOUR) = 3.264  
 COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8892  
 SOIL CLASSIFICATION IS "D"  
 SUBAREA RUNOFF (CFS) = 1.71  
 TOTAL AREA (ACRES) = 0.59 TOTAL RUNOFF (CFS) = 1.71

\*\*\*\*\*  
 FLOW PROCESS FROM NODE 425.00 TO NODE 430.00 IS CODE = 31  
 -----

>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<  
 >>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<

=====

ELEVATION DATA: UPSTREAM (FEET) = 5438.30 DOWNSTREAM (FEET) = 5434.00  
 FLOW LENGTH (FEET) = 15.00 MANNING'S N = 0.013  
 DEPTH OF FLOW IN 6.0 INCH PIPE IS 3.3 INCHES  
 PIPE-FLOW VELOCITY (FEET/SEC.) = 15.46  
 ESTIMATED PIPE DIAMETER (INCH) = 6.00 NUMBER OF PIPES = 1  
 PIPE-FLOW (CFS) = 1.71  
 PIPE TRAVEL TIME (MIN.) = 0.02 Tc (MIN.) = 5.02  
 LONGEST FLOWPATH FROM NODE 420.00 TO NODE 430.00 = 148.00 FEET.

\*\*\*\*\*  
 FLOW PROCESS FROM NODE 430.00 TO NODE 430.00 IS CODE = 1  
 -----

>>>>DESIGNATE INDEPENDENT STREAM FOR CONFLUENCE<<<<<  
 >>>>AND COMPUTE VARIOUS CONFLUENCED STREAM VALUES<<<<<

=====

TOTAL NUMBER OF STREAMS = 2  
 CONFLUENCE VALUES USED FOR INDEPENDENT STREAM 2 ARE:  
 TIME OF CONCENTRATION (MIN.) = 5.02  
 RAINFALL INTENSITY (INCH/HR) = 3.26  
 TOTAL STREAM AREA (ACRES) = 0.59  
 PEAK FLOW RATE (CFS) AT CONFLUENCE = 1.71

\*\* CONFLUENCE DATA \*\*

STREAM NUMBER	RUNOFF (CFS)	Tc (MIN.)	INTENSITY (INCH/HOUR)	AREA (ACRE)
1	1.39	5.18	3.203	0.48
2	1.71	5.02	3.259	0.59

\*\*\*\*\*WARNING\*\*\*\*\*  
 IN THIS COMPUTER PROGRAM, THE CONFLUENCE VALUE USED IS BASED  
 ON THE RCFC&WCD FORMULA OF PLATE D-1 AS DEFAULT VALUE. THIS FORMULA  
 WILL NOT NECESSARILY RESULT IN THE MAXIMUM VALUE OF PEAK FLOW.  
 \*\*\*\*\*

RAINFALL INTENSITY AND TIME OF CONCENTRATION RATIO  
 CONFLUENCE FORMULA USED FOR 2 STREAMS.

\*\* PEAK FLOW RATE TABLE \*\*

STREAM NUMBER	RUNOFF (CFS)	Tc (MIN.)	INTENSITY (INCH/HOUR)
1	3.06	5.02	3.259
2	3.08	5.18	3.203

COMPUTED CONFLUENCE ESTIMATES ARE AS FOLLOWS:

PEAK FLOW RATE (CFS) = 3.06 Tc (MIN.) = 5.02  
TOTAL AREA (ACRES) = 1.1  
LONGEST FLOWPATH FROM NODE 400.00 TO NODE 430.00 = 362.00 FEET.

\*\*\*\*\*

FLOW PROCESS FROM NODE 430.00 TO NODE 440.00 IS CODE = 51

>>>>COMPUTE TRAPEZOIDAL CHANNEL FLOW<<<<<  
>>>>TRAVELTIME THRU SUBAREA (EXISTING ELEMENT)<<<<<

=====

ELEVATION DATA: UPSTREAM (FEET) = 5436.50 DOWNSTREAM (FEET) = 5432.90  
CHANNEL LENGTH THRU SUBAREA (FEET) = 75.00 CHANNEL SLOPE = 0.0480  
CHANNEL BASE (FEET) = 15.00 "Z" FACTOR = 2.000  
MANNING'S FACTOR = 0.030 MAXIMUM DEPTH (FEET) = 1.00  
2 YEAR RAINFALL INTENSITY (INCH/HOUR) = 3.083  
UNDEVELOPED WATERSHED RUNOFF COEFFICIENT = .7866  
SOIL CLASSIFICATION IS "D"  
TRAVEL TIME COMPUTED USING ESTIMATED FLOW (CFS) = 3.18  
TRAVEL TIME THRU SUBAREA BASED ON VELOCITY (FEET/SEC.) = 2.22  
AVERAGE FLOW DEPTH (FEET) = 0.09 TRAVEL TIME (MIN.) = 0.56  
Tc (MIN.) = 5.58  
SUBAREA AREA (ACRES) = 0.10 SUBAREA RUNOFF (CFS) = 0.24  
TOTAL AREA (ACRES) = 1.2 PEAK FLOW RATE (CFS) = 3.30

END OF SUBAREA CHANNEL FLOW HYDRAULICS:  
DEPTH (FEET) = 0.10 FLOW VELOCITY (FEET/SEC.) = 2.26  
LONGEST FLOWPATH FROM NODE 400.00 TO NODE 440.00 = 437.00 FEET.

\*\*\*\*\*

FLOW PROCESS FROM NODE 500.00 TO NODE 510.00 IS CODE = 21

>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<

=====

ASSUMED INITIAL SUBAREA UNIFORM  
DEVELOPMENT IS SINGLE FAMILY (1/2 ACRE)  
 $TC = K * [(LENGTH ** 3) / (ELEVATION CHANGE)] ** .2$   
INITIAL SUBAREA FLOW-LENGTH (FEET) = 463.00  
UPSTREAM ELEVATION (FEET) = 5539.00  
DOWNSTREAM ELEVATION (FEET) = 5484.00  
ELEVATION DIFFERENCE (FEET) = 55.00  
 $TC = 0.422 * [(463.00 ** 3) / (55.00)] ** .2 = 7.528$   
2 YEAR RAINFALL INTENSITY (INCH/HOUR) = 2.638  
SINGLE-FAMILY (1/2 ACRE LOT) RUNOFF COEFFICIENT = .8221  
SOIL CLASSIFICATION IS "D"  
SUBAREA RUNOFF (CFS) = 2.67  
TOTAL AREA (ACRES) = 1.23 TOTAL RUNOFF (CFS) = 2.67

\*\*\*\*\*

FLOW PROCESS FROM NODE 600.00 TO NODE 610.00 IS CODE = 21

>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<

=====

ASSUMED INITIAL SUBAREA UNIFORM  
DEVELOPMENT IS COMMERCIAL  
 $TC = K * [(LENGTH ** 3) / (ELEVATION CHANGE)] ** .2$

INITIAL SUBAREA FLOW-LENGTH (FEET) = 248.00  
 UPSTREAM ELEVATION (FEET) = 5508.00  
 DOWNSTREAM ELEVATION (FEET) = 5486.90  
 ELEVATION DIFFERENCE (FEET) = 21.10  
 $TC = 0.303 * [(248.00^{**3}) / (21.10)]^{**0.2} = 4.502$   
 COMPUTED TIME OF CONCENTRATION INCREASED TO 5 MIN.  
 2 YEAR RAINFALL INTENSITY (INCH/HOUR) = 3.264  
 COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8892  
 SOIL CLASSIFICATION IS "D"  
 SUBAREA RUNOFF (CFS) = 1.65  
 TOTAL AREA (ACRES) = 0.57 TOTAL RUNOFF (CFS) = 1.65

\*\*\*\*\*  
 FLOW PROCESS FROM NODE 610.00 TO NODE 620.00 IS CODE = 31

>>>>> COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA <<<<<<  
 >>>>> USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW) <<<<<<

ELEVATION DATA: UPSTREAM (FEET) = 5486.90 DOWNSTREAM (FEET) = 5479.00  
 FLOW LENGTH (FEET) = 61.00 MANNING'S N = 0.013  
 DEPTH OF FLOW IN 6.0 INCH PIPE IS 4.2 INCHES  
 PIPE-FLOW VELOCITY (FEET/SEC.) = 11.21  
 ESTIMATED PIPE DIAMETER (INCH) = 6.00 NUMBER OF PIPES = 1  
 PIPE-FLOW (CFS) = 1.65  
 PIPE TRAVEL TIME (MIN.) = 0.09 Tc (MIN.) = 5.09  
 LONGEST FLOWPATH FROM NODE 600.00 TO NODE 620.00 = 309.00 FEET.

\*\*\*\*\*  
 FLOW PROCESS FROM NODE 620.00 TO NODE 630.00 IS CODE = 51

>>>>> COMPUTE TRAPEZOIDAL CHANNEL FLOW <<<<<<  
 >>>>> TRAVELTIME THRU SUBAREA (EXISTING ELEMENT) <<<<<<

ELEVATION DATA: UPSTREAM (FEET) = 5479.00 DOWNSTREAM (FEET) = 5477.90  
 CHANNEL LENGTH THRU SUBAREA (FEET) = 49.00 CHANNEL SLOPE = 0.0225  
 CHANNEL BASE (FEET) = 15.00 "Z" FACTOR = 2.000  
 MANNING'S FACTOR = 0.030 MAXIMUM DEPTH (FEET) = 1.00  
 2 YEAR RAINFALL INTENSITY (INCH/HOUR) = 3.056  
 UNDEVELOPED WATERSHED RUNOFF COEFFICIENT = .7857  
 SOIL CLASSIFICATION IS "D"  
 TRAVEL TIME COMPUTED USING ESTIMATED FLOW (CFS) = 1.71  
 TRAVEL TIME THRU SUBAREA BASED ON VELOCITY (FEET/SEC.) = 1.39  
 AVERAGE FLOW DEPTH (FEET) = 0.08 TRAVEL TIME (MIN.) = 0.59  
 Tc (MIN.) = 5.68  
 SUBAREA AREA (ACRES) = 0.05 SUBAREA RUNOFF (CFS) = 0.12  
 TOTAL AREA (ACRES) = 0.6 PEAK FLOW RATE (CFS) = 1.77

END OF SUBAREA CHANNEL FLOW HYDRAULICS:  
 DEPTH (FEET) = 0.08 FLOW VELOCITY (FEET/SEC.) = 1.44  
 LONGEST FLOWPATH FROM NODE 600.00 TO NODE 630.00 = 358.00 FEET.

END OF STUDY SUMMARY:  
 TOTAL AREA (ACRES) = 0.6 TC (MIN.) = 5.68  
 PEAK FLOW RATE (CFS) = 1.77

END OF RATIONAL METHOD ANALYSIS

\*\*\*\*\*

RATIONAL METHOD HYDROLOGY COMPUTER PROGRAM BASED ON  
RIVERSIDE COUNTY FLOOD CONTROL & WATER CONSERVATION DISTRICT  
(RCFC&WCD) 1978 HYDROLOGY MANUAL  
(c) Copyright 1982-2016 Advanced Engineering Software (aes)  
(Rational Tabling Version 23.0)  
Release Date: 07/01/2016 License ID 1524

Analysis prepared by:

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\*\*\*\*\* DESCRIPTION OF STUDY \*\*\*\*\*  
\* 100 YEAR - 1 HOUR DESIGN STORM \*  
\* RUSTIC RENTALS - 25840 IDYLLWILD HWY \*  
\* PROPOSED CONDITION \*  
\*\*\*\*\*

FILE NAME: STEW100P.DAT  
TIME/DATE OF STUDY: 13:07 08/12/2021

-----  
USER SPECIFIED HYDROLOGY AND HYDRAULIC MODEL INFORMATION:  
-----

USER SPECIFIED STORM EVENT (YEAR) = 100.00  
SPECIFIED MINIMUM PIPE SIZE (INCH) = 6.00  
SPECIFIED PERCENT OF GRADIENTS (DECIMAL) TO USE FOR FRICTION SLOPE = 0.95  
10-YEAR STORM 10-MINUTE INTENSITY (INCH/HOUR) = 3.430  
10-YEAR STORM 60-MINUTE INTENSITY (INCH/HOUR) = 1.350  
100-YEAR STORM 10-MINUTE INTENSITY (INCH/HOUR) = 5.080  
100-YEAR STORM 60-MINUTE INTENSITY (INCH/HOUR) = 2.000  
SLOPE OF 10-YEAR INTENSITY-DURATION CURVE = 0.5204133  
SLOPE OF 100-YEAR INTENSITY-DURATION CURVE = 0.5202506

COMPUTED RAINFALL INTENSITY DATA:

STORM EVENT = 100.00 1-HOUR INTENSITY (INCH/HOUR) = 2.000  
SLOPE OF INTENSITY DURATION CURVE = 0.5203

RCFC&WCD HYDROLOGY MANUAL "C"-VALUES USED FOR RATIONAL METHOD

NOTE: COMPUTE CONFLUENCE VALUES ACCORDING TO RCFC&WCD HYDROLOGY MANUAL  
AND IGNORE OTHER CONFLUENCE COMBINATIONS FOR DOWNSTREAM ANALYSES

\*USER-DEFINED STREET-SECTIONS FOR COUPLED PIPEFLOW AND STREETFLOW MODEL\*

NO.	HALF- CROWN TO		STREET-CROSSFALL:			CURB GUTTER-GEOMETRIES:			MANNING FACTOR (n)
	WIDTH (FT)	CROSSFALL (FT)	IN- SIDE	/ OUT- / SIDE/ WAY	PARK- HEIGHT (FT)	WIDTH (FT)	LIP (FT)	HIKE (FT)	
1	30.0	20.0	0.018	0.018/0.020	0.67	2.00	0.0313	0.167	0.0150

GLOBAL STREET FLOW-DEPTH CONSTRAINTS:

1. Relative Flow-Depth = 0.00 FEET  
as (Maximum Allowable Street Flow Depth) - (Top-of-Curb)
2. (Depth)\*(Velocity) Constraint = 6.0 (FT\*FT/S)

\*SIZE PIPE WITH A FLOW CAPACITY GREATER THAN  
OR EQUAL TO THE UPSTREAM TRIBUTARY PIPE.\*

\*\*\*\*\*



FLOW PROCESS FROM NODE 400.00 TO NODE 410.00 IS CODE = 21

>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<

=====

ASSUMED INITIAL SUBAREA UNIFORM  
DEVELOPMENT IS COMMERCIAL

TC =  $K * [(LENGTH^{**3}) / (ELEVATION CHANGE)]^{**.2}$   
INITIAL SUBAREA FLOW-LENGTH (FEET) = 225.00  
UPSTREAM ELEVATION (FEET) = 5486.50  
DOWNSTREAM ELEVATION (FEET) = 5461.50  
ELEVATION DIFFERENCE (FEET) = 25.00  
TC =  $0.303 * [(225.00^{**3}) / (25.00)]^{**.2} = 4.105$   
COMPUTED TIME OF CONCENTRATION INCREASED TO 5 MIN.  
100 YEAR RAINFALL INTENSITY (INCH/HOUR) = 7.286  
COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8948  
SOIL CLASSIFICATION IS "D"  
SUBAREA RUNOFF (CFS) = 3.13  
TOTAL AREA (ACRES) = 0.48 TOTAL RUNOFF (CFS) = 3.13

\*\*\*\*\*

FLOW PROCESS FROM NODE 410.00 TO NODE 430.00 IS CODE = 31

>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<  
>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<

=====

ELEVATION DATA: UPSTREAM (FEET) = 5461.50 DOWNSTREAM (FEET) = 5436.50  
FLOW LENGTH (FEET) = 137.00 MANNING'S N = 0.013  
DEPTH OF FLOW IN 9.0 INCH PIPE IS 4.3 INCHES  
PIPE-FLOW VELOCITY (FEET/SEC.) = 15.21  
ESTIMATED PIPE DIAMETER (INCH) = 9.00 NUMBER OF PIPES = 1  
PIPE-FLOW (CFS) = 3.13  
PIPE TRAVEL TIME (MIN.) = 0.15 Tc (MIN.) = 5.15  
LONGEST FLOWPATH FROM NODE 400.00 TO NODE 430.00 = 362.00 FEET.

\*\*\*\*\*

FLOW PROCESS FROM NODE 430.00 TO NODE 430.00 IS CODE = 1

>>>>DESIGNATE INDEPENDENT STREAM FOR CONFLUENCE<<<<<

=====

TOTAL NUMBER OF STREAMS = 2  
CONFLUENCE VALUES USED FOR INDEPENDENT STREAM 1 ARE:  
TIME OF CONCENTRATION (MIN.) = 5.15  
RAINFALL INTENSITY (INCH/HR) = 7.17  
TOTAL STREAM AREA (ACRES) = 0.48  
PEAK FLOW RATE (CFS) AT CONFLUENCE = 3.13

\*\*\*\*\*

FLOW PROCESS FROM NODE 420.00 TO NODE 425.00 IS CODE = 21

>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<

=====

ASSUMED INITIAL SUBAREA UNIFORM  
DEVELOPMENT IS COMMERCIAL

TC =  $K * [(LENGTH^{**3}) / (ELEVATION CHANGE)]^{**.2}$   
INITIAL SUBAREA FLOW-LENGTH (FEET) = 133.00  
UPSTREAM ELEVATION (FEET) = 5461.70  
DOWNSTREAM ELEVATION (FEET) = 5442.30

ELEVATION DIFFERENCE (FEET) = 19.40  
 TC = 0.303 \* [ ( 133.00 \*\* 3 ) / ( 19.40 ) ] \*\* .2 = 3.150  
 COMPUTED TIME OF CONCENTRATION INCREASED TO 5 MIN.  
 100 YEAR RAINFALL INTENSITY (INCH/HOUR) = 7.286  
 COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8948  
 SOIL CLASSIFICATION IS "D"  
 SUBAREA RUNOFF (CFS) = 3.85  
 TOTAL AREA (ACRES) = 0.59 TOTAL RUNOFF (CFS) = 3.85

\*\*\*\*\*  
 FLOW PROCESS FROM NODE 425.00 TO NODE 430.00 IS CODE = 31  
 -----

>>>> COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA <<<<<  
 >>>> USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW) <<<<<

=====

ELEVATION DATA: UPSTREAM (FEET) = 5438.30 DOWNSTREAM (FEET) = 5434.00  
 FLOW LENGTH (FEET) = 15.00 MANNING'S N = 0.013  
 DEPTH OF FLOW IN 9.0 INCH PIPE IS 4.2 INCHES  
 PIPE-FLOW VELOCITY (FEET/SEC.) = 18.98  
 ESTIMATED PIPE DIAMETER (INCH) = 9.00 NUMBER OF PIPES = 1  
 PIPE-FLOW (CFS) = 3.85  
 PIPE TRAVEL TIME (MIN.) = 0.01 Tc (MIN.) = 5.01  
 LONGEST FLOWPATH FROM NODE 420.00 TO NODE 430.00 = 148.00 FEET.

\*\*\*\*\*  
 FLOW PROCESS FROM NODE 430.00 TO NODE 430.00 IS CODE = 1  
 -----

>>>> DESIGNATE INDEPENDENT STREAM FOR CONFLUENCE <<<<<  
 >>>> AND COMPUTE VARIOUS CONFLUENCED STREAM VALUES <<<<<

=====

TOTAL NUMBER OF STREAMS = 2  
 CONFLUENCE VALUES USED FOR INDEPENDENT STREAM 2 ARE:  
 TIME OF CONCENTRATION (MIN.) = 5.01  
 RAINFALL INTENSITY (INCH/HR) = 7.28  
 TOTAL STREAM AREA (ACRES) = 0.59  
 PEAK FLOW RATE (CFS) AT CONFLUENCE = 3.85

\*\* CONFLUENCE DATA \*\*

STREAM NUMBER	RUNOFF (CFS)	Tc (MIN.)	INTENSITY (INCH/HOUR)	AREA (ACRE)
1	3.13	5.15	7.174	0.48
2	3.85	5.01	7.276	0.59

\*\*\*\*\*WARNING\*\*\*\*\*  
 IN THIS COMPUTER PROGRAM, THE CONFLUENCE VALUE USED IS BASED  
 ON THE RCFC&WCD FORMULA OF PLATE D-1 AS DEFAULT VALUE. THIS FORMULA  
 WILL NOT NECESSARILY RESULT IN THE MAXIMUM VALUE OF PEAK FLOW.  
 \*\*\*\*\*

RAINFALL INTENSITY AND TIME OF CONCENTRATION RATIO  
 CONFLUENCE FORMULA USED FOR 2 STREAMS.

\*\* PEAK FLOW RATE TABLE \*\*

STREAM NUMBER	RUNOFF (CFS)	Tc (MIN.)	INTENSITY (INCH/HOUR)
1	6.89	5.01	7.276
2	6.92	5.15	7.174

COMPUTED CONFLUENCE ESTIMATES ARE AS FOLLOWS:

PEAK FLOW RATE (CFS) = 6.89 Tc (MIN.) = 5.01  
TOTAL AREA (ACRES) = 1.1  
LONGEST FLOWPATH FROM NODE 400.00 TO NODE 430.00 = 362.00 FEET.

\*\*\*\*\*

FLOW PROCESS FROM NODE 430.00 TO NODE 440.00 IS CODE = 51

>>>>COMPUTE TRAPEZOIDAL CHANNEL FLOW<<<<<  
>>>>TRAVELTIME THRU SUBAREA (EXISTING ELEMENT)<<<<<

=====

ELEVATION DATA: UPSTREAM (FEET) = 5436.50 DOWNSTREAM (FEET) = 5432.90  
CHANNEL LENGTH THRU SUBAREA (FEET) = 75.00 CHANNEL SLOPE = 0.0480  
CHANNEL BASE (FEET) = 15.00 "Z" FACTOR = 2.000  
MANNING'S FACTOR = 0.030 MAXIMUM DEPTH (FEET) = 1.00  
100 YEAR RAINFALL INTENSITY (INCH/HOUR) = 6.982  
UNDEVELOPED WATERSHED RUNOFF COEFFICIENT = .8461  
SOIL CLASSIFICATION IS "D"  
TRAVEL TIME COMPUTED USING ESTIMATED FLOW (CFS) = 7.19  
TRAVEL TIME THRU SUBAREA BASED ON VELOCITY (FEET/SEC.) = 3.02  
AVERAGE FLOW DEPTH (FEET) = 0.16 TRAVEL TIME (MIN.) = 0.41  
Tc (MIN.) = 5.43  
SUBAREA AREA (ACRES) = 0.10 SUBAREA RUNOFF (CFS) = 0.59  
TOTAL AREA (ACRES) = 1.2 PEAK FLOW RATE (CFS) = 7.48

END OF SUBAREA CHANNEL FLOW HYDRAULICS:  
DEPTH (FEET) = 0.16 FLOW VELOCITY (FEET/SEC.) = 3.11  
LONGEST FLOWPATH FROM NODE 400.00 TO NODE 440.00 = 437.00 FEET.

\*\*\*\*\*

FLOW PROCESS FROM NODE 500.00 TO NODE 510.00 IS CODE = 21

>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<

=====

ASSUMED INITIAL SUBAREA UNIFORM  
DEVELOPMENT IS SINGLE FAMILY (1/2 ACRE)  
 $TC = K * [(LENGTH ** 3) / (ELEVATION CHANGE)] ** .2$   
INITIAL SUBAREA FLOW-LENGTH (FEET) = 463.00  
UPSTREAM ELEVATION (FEET) = 5539.00  
DOWNSTREAM ELEVATION (FEET) = 5484.00  
ELEVATION DIFFERENCE (FEET) = 55.00  
 $TC = 0.422 * [(463.00 ** 3) / (55.00)] ** .2 = 7.528$   
100 YEAR RAINFALL INTENSITY (INCH/HOUR) = 5.889  
SINGLE-FAMILY (1/2 ACRE LOT) RUNOFF COEFFICIENT = .8621  
SOIL CLASSIFICATION IS "D"  
SUBAREA RUNOFF (CFS) = 6.24  
TOTAL AREA (ACRES) = 1.23 TOTAL RUNOFF (CFS) = 6.24

\*\*\*\*\*

FLOW PROCESS FROM NODE 600.00 TO NODE 610.00 IS CODE = 21

>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<

=====

ASSUMED INITIAL SUBAREA UNIFORM  
DEVELOPMENT IS COMMERCIAL  
 $TC = K * [(LENGTH ** 3) / (ELEVATION CHANGE)] ** .2$

INITIAL SUBAREA FLOW-LENGTH (FEET) = 248.00  
 UPSTREAM ELEVATION (FEET) = 5508.00  
 DOWNSTREAM ELEVATION (FEET) = 5486.90  
 ELEVATION DIFFERENCE (FEET) = 21.10  
 $TC = 0.303 * [(248.00^{**3}) / (21.10)]^{**0.2} = 4.502$   
 COMPUTED TIME OF CONCENTRATION INCREASED TO 5 MIN.  
 100 YEAR RAINFALL INTENSITY (INCH/HOUR) = 7.286  
 COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8948  
 SOIL CLASSIFICATION IS "D"  
 SUBAREA RUNOFF (CFS) = 3.72  
 TOTAL AREA (ACRES) = 0.57 TOTAL RUNOFF (CFS) = 3.72

\*\*\*\*\*  
 FLOW PROCESS FROM NODE 610.00 TO NODE 620.00 IS CODE = 31

>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<  
 >>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<

ELEVATION DATA: UPSTREAM (FEET) = 5486.90 DOWNSTREAM (FEET) = 5479.00  
 FLOW LENGTH (FEET) = 61.00 MANNING'S N = 0.013  
 DEPTH OF FLOW IN 9.0 INCH PIPE IS 5.2 INCHES  
 PIPE-FLOW VELOCITY (FEET/SEC.) = 13.92  
 ESTIMATED PIPE DIAMETER (INCH) = 9.00 NUMBER OF PIPES = 1  
 PIPE-FLOW (CFS) = 3.72  
 PIPE TRAVEL TIME (MIN.) = 0.07 Tc (MIN.) = 5.07  
 LONGEST FLOWPATH FROM NODE 600.00 TO NODE 620.00 = 309.00 FEET.

\*\*\*\*\*  
 FLOW PROCESS FROM NODE 620.00 TO NODE 630.00 IS CODE = 51

>>>>COMPUTE TRAPEZOIDAL CHANNEL FLOW<<<<<  
 >>>>TRAVELTIME THRU SUBAREA (EXISTING ELEMENT)<<<<<

ELEVATION DATA: UPSTREAM (FEET) = 5479.00 DOWNSTREAM (FEET) = 5477.90  
 CHANNEL LENGTH THRU SUBAREA (FEET) = 49.00 CHANNEL SLOPE = 0.0225  
 CHANNEL BASE (FEET) = 15.00 "Z" FACTOR = 2.000  
 MANNING'S FACTOR = 0.030 MAXIMUM DEPTH (FEET) = 1.00  
 100 YEAR RAINFALL INTENSITY (INCH/HOUR) = 6.933  
 UNDEVELOPED WATERSHED RUNOFF COEFFICIENT = .8458  
 SOIL CLASSIFICATION IS "D"  
 TRAVEL TIME COMPUTED USING ESTIMATED FLOW (CFS) = 3.86  
 TRAVEL TIME THRU SUBAREA BASED ON VELOCITY (FEET/SEC.) = 1.91  
 AVERAGE FLOW DEPTH (FEET) = 0.13 TRAVEL TIME (MIN.) = 0.43  
 Tc (MIN.) = 5.50  
 SUBAREA AREA (ACRES) = 0.05 SUBAREA RUNOFF (CFS) = 0.29  
 TOTAL AREA (ACRES) = 0.6 PEAK FLOW RATE (CFS) = 4.01

END OF SUBAREA CHANNEL FLOW HYDRAULICS:  
 DEPTH (FEET) = 0.13 FLOW VELOCITY (FEET/SEC.) = 1.95  
 LONGEST FLOWPATH FROM NODE 600.00 TO NODE 630.00 = 358.00 FEET.

END OF STUDY SUMMARY:  
 TOTAL AREA (ACRES) = 0.6 TC (MIN.) = 5.50  
 PEAK FLOW RATE (CFS) = 4.01

END OF RATIONAL METHOD ANALYSIS

## **HYDRAULIC CALCULATIONS**

# Channel Report

## 12IN HDPE AT NODES 410-430

### Circular

Diameter (ft) = 1.00

Invert Elev (ft) = 5461.50

Slope (%) = 15.00

N-Value = 0.013

### Calculations

Compute by: Known Q

Known Q (cfs) = 3.13

### Highlighted

Depth (ft) = 0.33

Q (cfs) = 3.130

Area (sqft) = 0.23

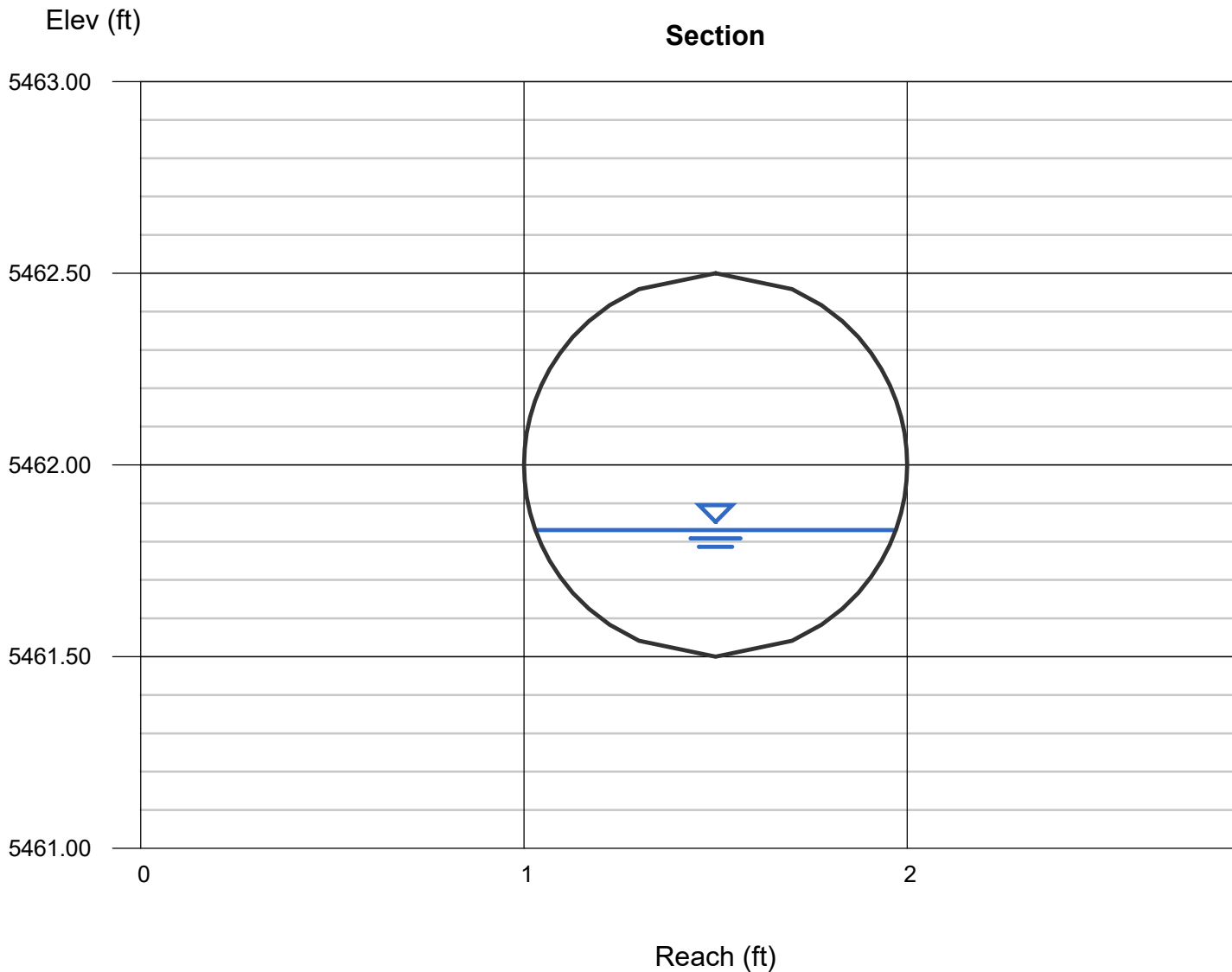
Velocity (ft/s) = 13.82

Wetted Perim (ft) = 1.22

Crit Depth, Yc (ft) = 0.76

Top Width (ft) = 0.94

EGL (ft) = 3.30



# Channel Report

## 12IN HDPE AT NODES 425-430

### Circular

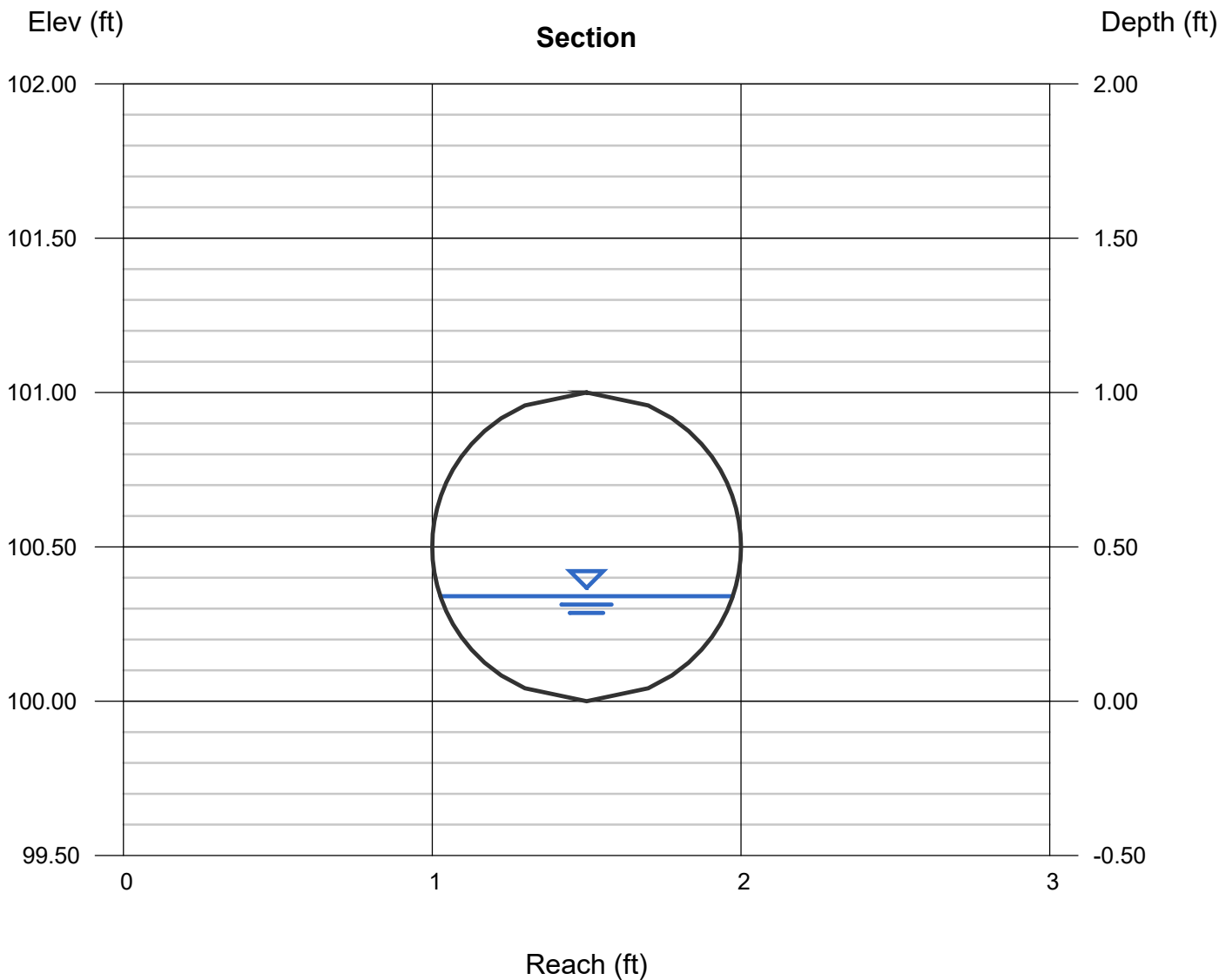
Diameter (ft) = 1.00  
  
Invert Elev (ft) = 100.00  
Slope (%) = 20.00  
N-Value = 0.013

### Highlighted

Depth (ft) = 0.34  
Q (cfs) = 3.850  
Area (sqft) = 0.24  
Velocity (ft/s) = 16.20  
Wetted Perim (ft) = 1.25  
Crit Depth, Yc (ft) = 0.84  
Top Width (ft) = 0.95  
EGL (ft) = 4.42

### Calculations

Compute by: Known Q  
Known Q (cfs) = 3.85



# Channel Report

## 12IN HDPE AT NODES 610-620

### Circular

Diameter (ft) = 1.00

Invert Elev (ft) = 5486.90

Slope (%) = 12.00

N-Value = 0.013

### Calculations

Compute by: Known Q

Known Q (cfs) = 3.72

### Highlighted

Depth (ft) = 0.38

Q (cfs) = 3.720

Area (sqft) = 0.27

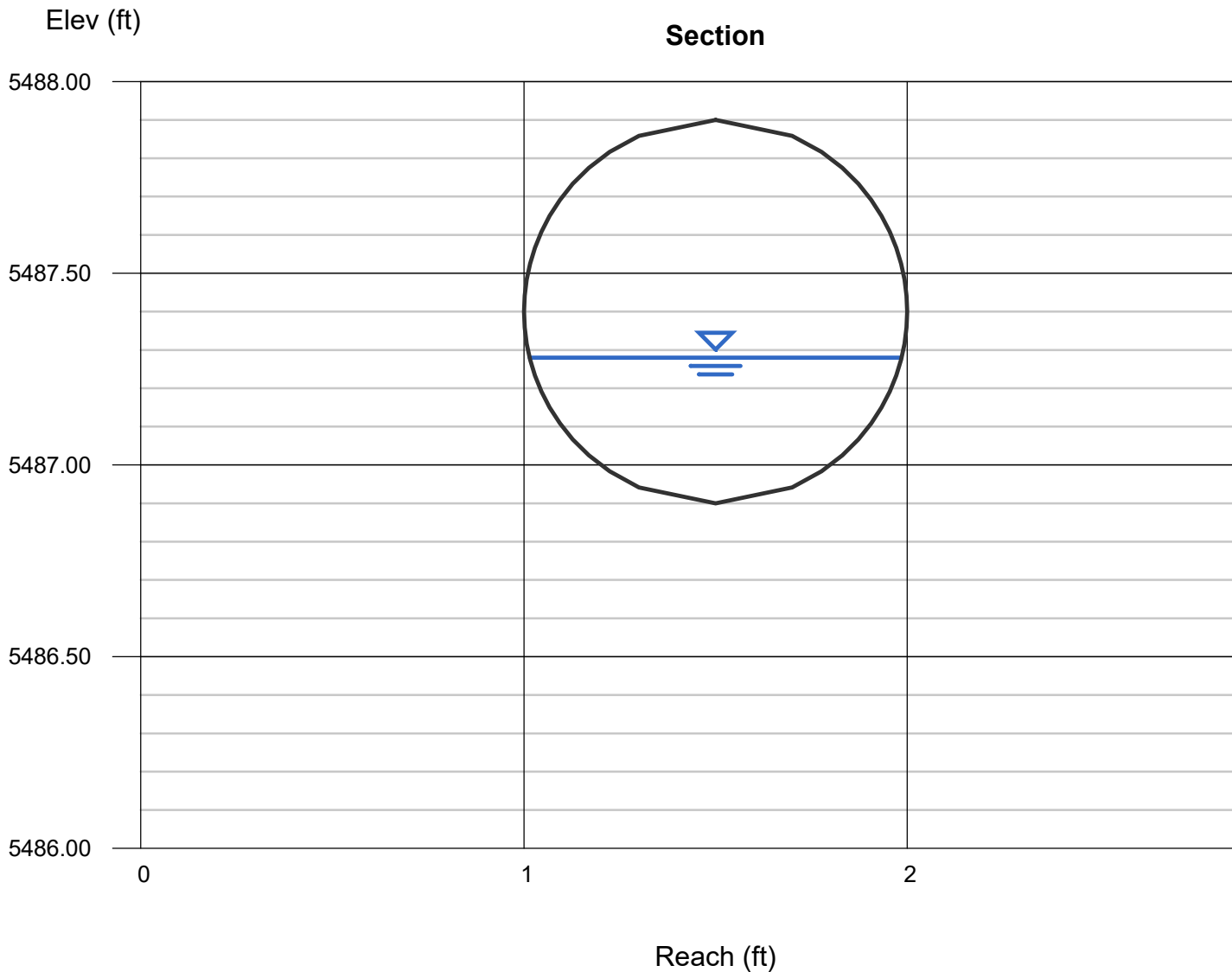
Velocity (ft/s) = 13.55

Wetted Perim (ft) = 1.33

Crit Depth,  $Y_c$  (ft) = 0.82

Top Width (ft) = 0.97

EGL (ft) = 3.23



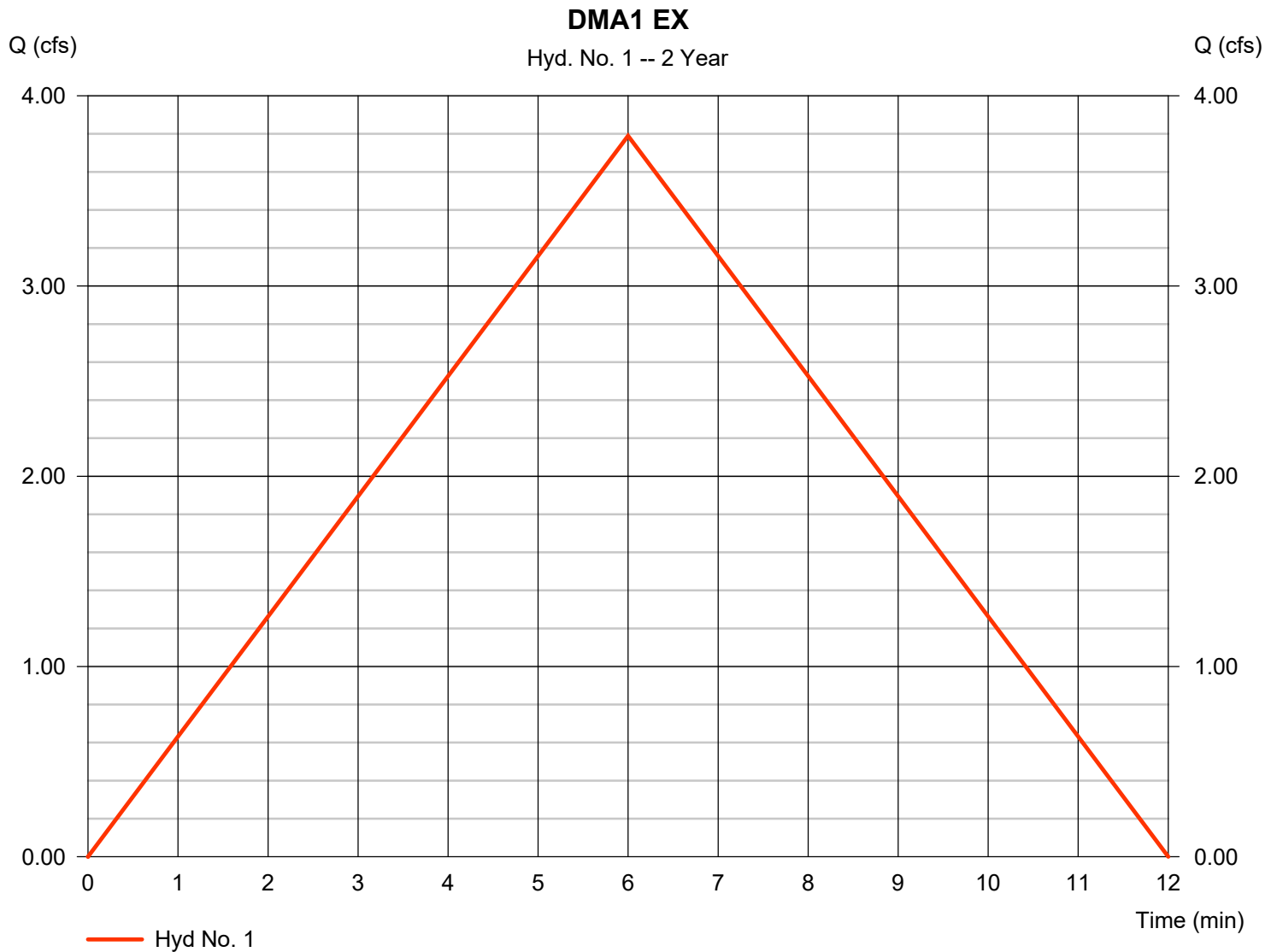


# Hydrograph Report

## Hyd. No. 1

DMA1 EX

Hydrograph type	= Rational	Peak discharge	= 3.789 cfs
Storm frequency	= 2 yrs	Time to peak	= 6 min
Time interval	= 1 min	Hyd. volume	= 1,364 cuft
Drainage area	= 1.170 ac	Runoff coeff.	= 0.596
Intensity	= 5.434 in/hr	Tc by User	= 6.00 min
IDF Curve	= SampleFHA.idf	Asc/Rec limb fact	= 1/1

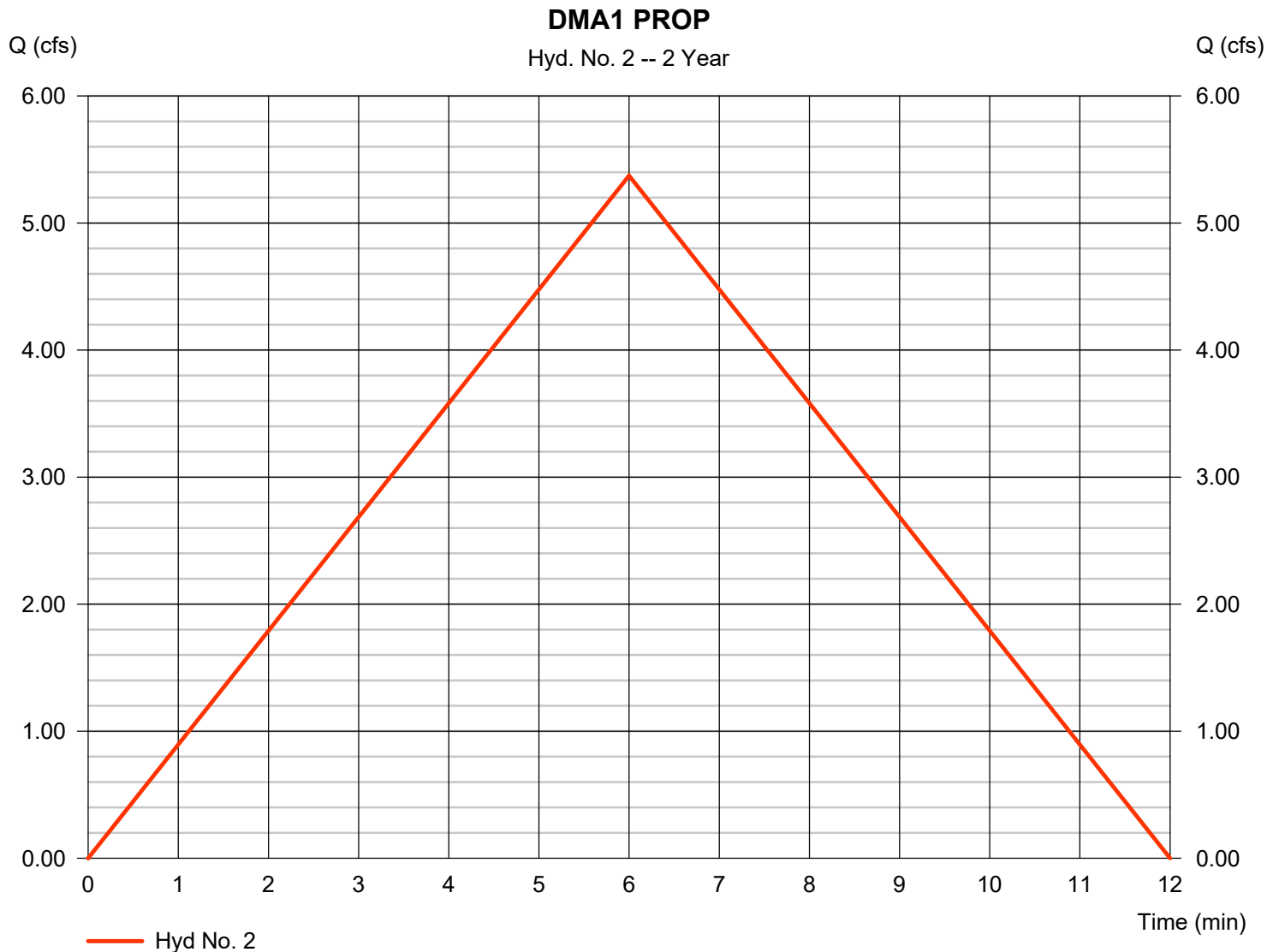


# Hydrograph Report

## Hyd. No. 2

DMA1 PROP

Hydrograph type	= Rational	Peak discharge	= 5.372 cfs
Storm frequency	= 2 yrs	Time to peak	= 6 min
Time interval	= 1 min	Hyd. volume	= 1,934 cuft
Drainage area	= 1.170 ac	Runoff coeff.	= 0.845
Intensity	= 5.434 in/hr	Tc by User	= 6.00 min
IDF Curve	= SampleFHA.idf	Asc/Rec limb fact	= 1/1

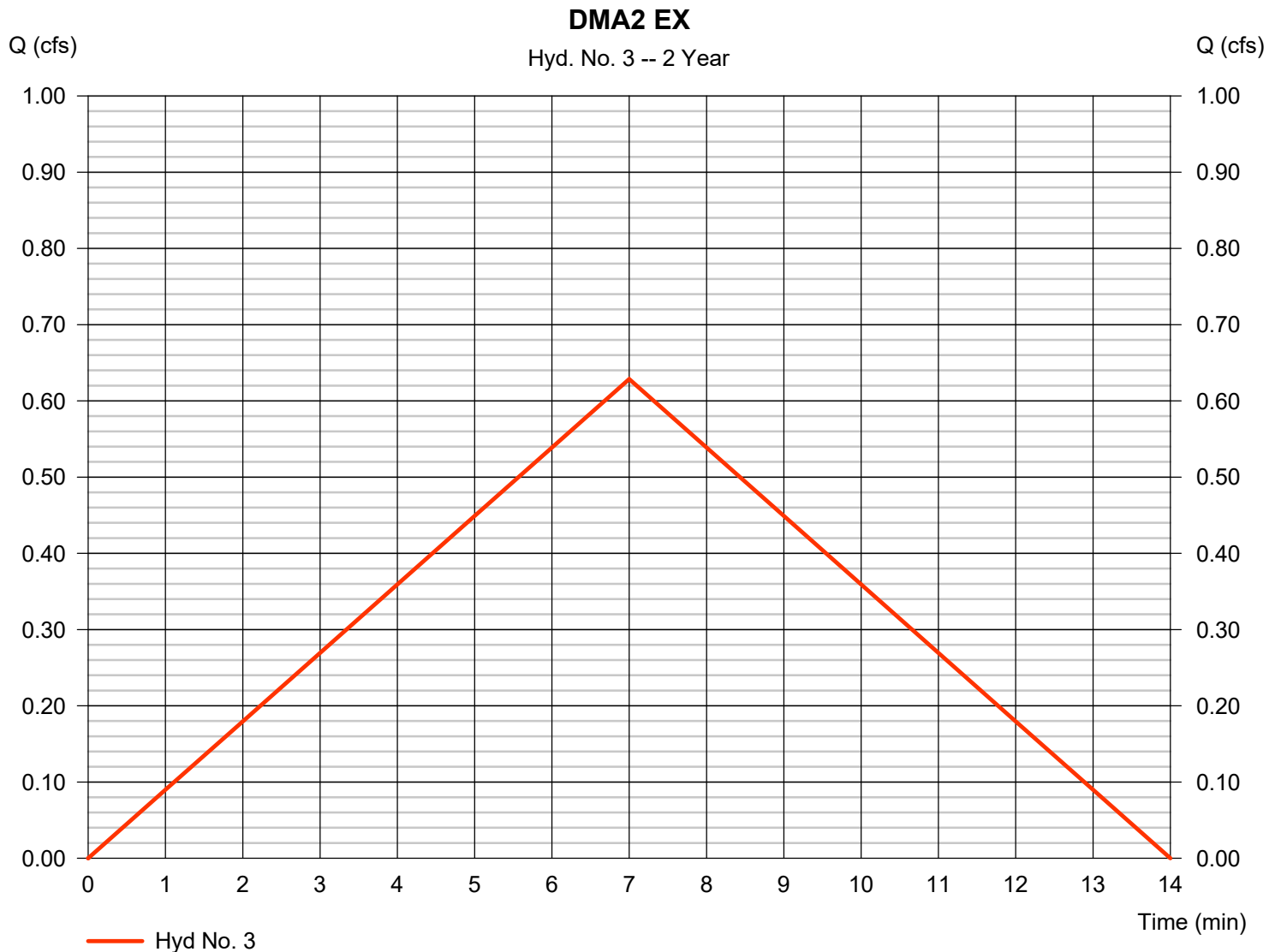


# Hydrograph Report

## Hyd. No. 3

DMA2 EX

Hydrograph type	= Rational	Peak discharge	= 0.629 cfs
Storm frequency	= 2 yrs	Time to peak	= 7 min
Time interval	= 1 min	Hyd. volume	= 264 cuft
Drainage area	= 0.620 ac	Runoff coeff.	= 0.195
Intensity	= 5.199 in/hr	Tc by User	= 7.00 min
IDF Curve	= SampleFHA.idf	Asc/Rec limb fact	= 1/1



# Hydrograph Report

## Hyd. No. 4

DMA2 PROP

Hydrograph type	= Rational	Peak discharge	= 3.066 cfs
Storm frequency	= 2 yrs	Time to peak	= 6 min
Time interval	= 1 min	Hyd. volume	= 1,104 cuft
Drainage area	= 0.620 ac	Runoff coeff.	= 0.91
Intensity	= 5.434 in/hr	Tc by User	= 6.00 min
IDF Curve	= SampleFHA.idf	Asc/Rec limb fact	= 1/1



## **TRENCH SIZING CALCULATIONS**

**INFILTRATION TRENCH VOLUME CALCS**

<b>INFILTRATION TRENCH NODE 430</b>	
	DA1
Infiltration Surface Area (ft <sup>2</sup> )	1487
Gavel Depth @ 40% porosity (ft)	6.0
Total Basin Volume (ft <sup>3</sup> )	3569

TOTAL VOLUME = (1487 X 6) X 40%

<b>INFILTRATION TRENCH NODE 620</b>	
	DA1
Infiltration Surface Area (ft <sup>2</sup> )	895
Gavel Depth @ 40% porosity (ft)	6.0
Total Basin Volume (ft <sup>3</sup> )	2148

TOTAL VOLUME = (895 X 6) X 40%

**REFERENCE MAPS**

# RAINFALL INTENSITY—INCHES PER HOUR

HEMET			HIGHGROVE			HOMELAND — WINCHESTER			IDYLLWILD			LAKEVIEW		
DURATION MINUTES	FREQUENCY 10 YEAR	FREQUENCY 100 YEAR	DURATION MINUTES	FREQUENCY 10 YEAR	FREQUENCY 100 YEAR	DURATION MINUTES	FREQUENCY 10 YEAR	FREQUENCY 100 YEAR	DURATION MINUTES	FREQUENCY 10 YEAR	FREQUENCY 100 YEAR	DURATION MINUTES	FREQUENCY 10 YEAR	FREQUENCY 100 YEAR
5	2.84	4.40	5	3.02	4.37	5	2.91	4.37	5	4.91	7.28	5	2.77	4.16
6	2.58	4.00	6	2.75	3.97	6	2.65	3.97	6	4.47	6.62	6	2.53	3.79
7	2.37	3.68	7	2.54	3.67	7	2.44	3.67	7	4.13	6.11	7	2.34	3.51
8	2.21	3.43	8	2.37	3.42	8	2.28	3.42	8	3.85	5.70	8	2.19	3.29
9	2.08	3.23	9	2.23	3.22	9	2.15	3.22	9	3.62	5.36	9	2.07	3.10
10	1.96	3.05	10	2.11	3.05	10	2.03	3.05	10	3.43	5.08	10	1.96	2.94
11	1.87	2.90	11	2.01	2.90	11	1.93	2.90	11	3.26	4.83	11	1.87	2.80
12	1.78	2.77	12	1.92	2.77	12	1.85	2.77	12	3.12	4.62	12	1.79	2.68
13	1.71	2.65	13	1.84	2.66	13	1.77	2.66	13	2.99	4.43	13	1.72	2.58
14	1.64	2.55	14	1.77	2.56	14	1.71	2.56	14	2.88	4.26	14	1.66	2.48
15	1.58	2.46	15	1.71	2.47	15	1.64	2.47	15	2.78	4.11	15	1.60	2.40
16	1.53	2.38	16	1.65	2.39	16	1.59	2.39	16	2.68	3.98	16	1.55	2.32
17	1.48	2.30	17	1.60	2.31	17	1.54	2.31	17	2.60	3.85	17	1.50	2.25
18	1.44	2.23	18	1.55	2.24	18	1.50	2.24	18	2.52	3.74	18	1.46	2.19
19	1.40	2.17	19	1.51	2.18	19	1.45	2.18	19	2.45	3.64	19	1.42	2.13
20	1.36	2.11	20	1.47	2.12	20	1.42	2.12	20	2.39	3.54	20	1.39	2.08
22	1.29	2.01	22	1.40	2.02	22	1.35	2.02	22	2.27	3.37	22	1.32	1.98
24	1.24	1.92	24	1.34	1.93	24	1.29	1.93	24	2.17	3.22	24	1.26	1.90
26	1.18	1.84	26	1.28	1.85	26	1.24	1.85	26	2.09	3.09	26	1.22	1.82
28	1.14	1.77	28	1.23	1.78	28	1.19	1.78	28	2.01	2.97	28	1.17	1.76
30	1.10	1.70	30	1.19	1.72	30	1.15	1.72	30	1.94	2.87	30	1.13	1.70
32	1.06	1.65	32	1.15	1.66	32	1.11	1.66	32	1.87	2.77	32	1.10	1.64
34	1.03	1.59	34	1.12	1.61	34	1.07	1.61	34	1.81	2.69	34	1.06	1.59
36	1.00	1.55	36	1.08	1.57	36	1.04	1.57	36	1.76	2.61	36	1.03	1.55
38	.97	1.50	38	1.05	1.52	38	1.01	1.52	38	1.71	2.54	38	1.01	1.51
40	.94	1.46	40	1.02	1.48	40	.99	1.48	40	1.67	2.47	40	.98	1.47
45	.89	1.37	45	.96	1.39	45	.93	1.39	45	1.57	2.32	45	.92	1.39
50	.84	1.30	50	.91	1.32	50	.88	1.32	50	1.48	2.20	50	.88	1.31
55	.80	1.24	55	.87	1.26	55	.84	1.26	55	1.41	2.09	55	.84	1.25
60	.76	1.18	60	.83	1.20	60	.80	1.20	60	1.35	2.00	60	.80	1.20
65	.73	1.13	65	.80	1.15	65	.77	1.15	65	1.29	1.92	65	.77	1.15
70	.70	1.09	70	.77	1.11	70	.74	1.11	70	1.25	1.85	70	.74	1.11
75	.68	1.05	75	.74	1.07	75	.71	1.07	75	1.20	1.78	75	.72	1.07
80	.65	1.01	80	.71	1.03	80	.69	1.03	80	1.16	1.72	80	.69	1.04
85	.63	.98	85	.69	1.00	85	.67	1.00	85	1.13	1.67	85	.67	1.01

SLOPE = .530

SLOPE = .520

SLOPE = .520

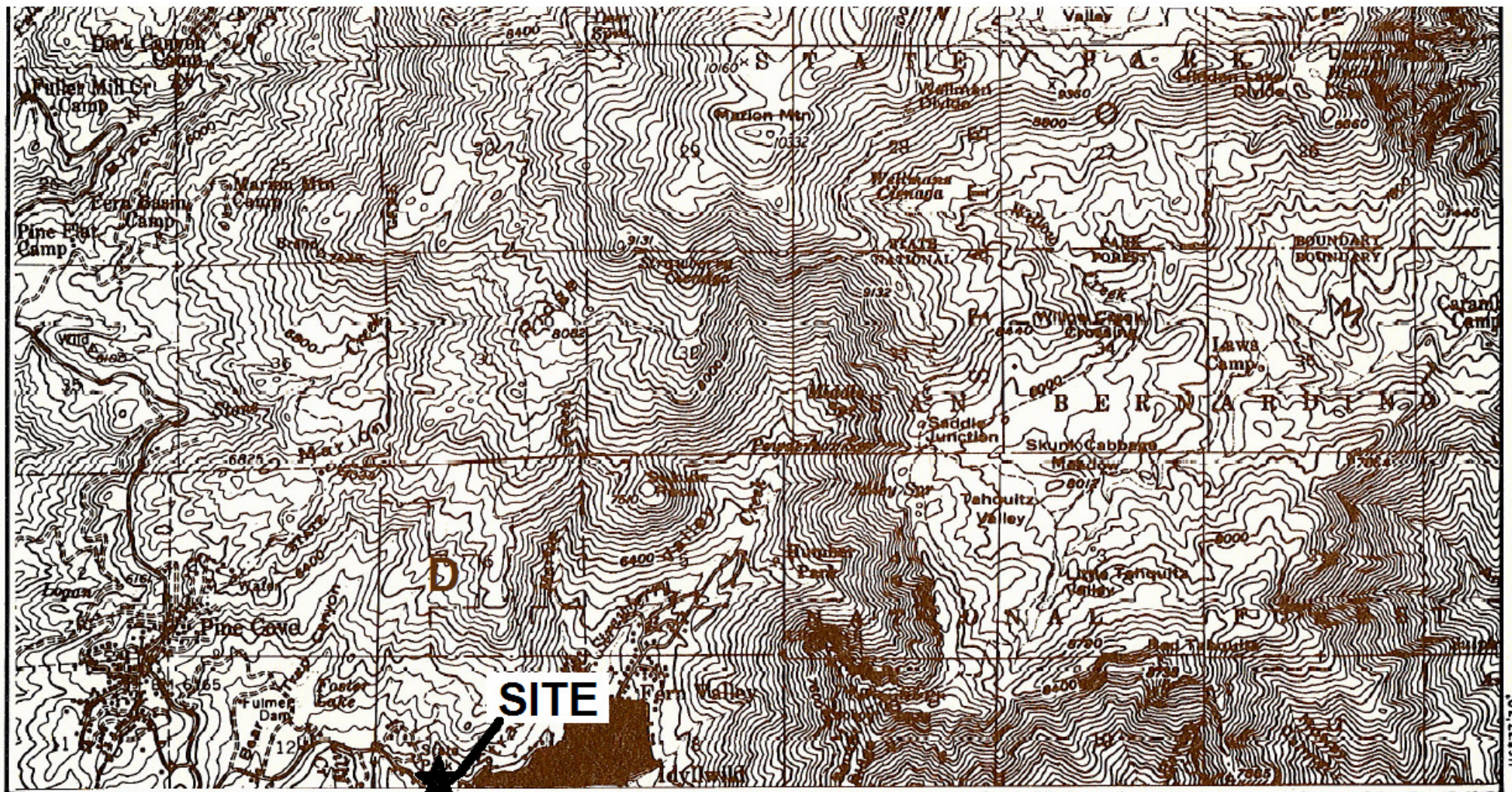
SLOPE = .520

SLOPE = .500

**RCFC & WCD**  
HYDROLOGY MANUAL

STANDARD  
INTENSITY—DURATION  
CURVES DATA





(IDYLLWILD N.W.)

33°45'

116°37'30"

**SITE**

**LEGEND**

— SOILS GROUP BOUNDARY  
 A SOILS GROUP DESIGNATION

**RCFC & WCD**  
 HYDROLOGY MANUAL

**HYDROLOGIC SOILS GROUP MAP**  
**FOR**  
**PALM SPRINGS—S.W.**

# Appendix 8: Source Control

*Pollutant Sources/Source Control Checklist*

**FORMER SOURCE SOURCE CONTROL CHECKLIST**

1. Review Column 1 and identify which of these potential sources of stormwater pollutants apply to your site. Check each box that applies.

2. Review Column 2 and incorporate all of the corresponding applicable BMPs in your WQMP Exhibit.

3. Review Columns 3 and 4 and incorporate all of the corresponding applicable permanent controls and operational BMPs in your WQMP. Use the format shown in Table G.1 on page 23 of this WQMP Template. Describe your specific BMPs in an accompanying narrative, and explain any special conditions or situations that required omitting BMPs or substituting alternative BMPs for those shown here.

<p><b>1</b> Potential Source Description</p>	<p><b>2</b> Permanent Control Description</p>		
<p><b>3</b> Operational Control Description</p>	<p><b>4</b> Permanent Control Description</p>	<p><b>5</b> Operational Control Description</p>	<p><b>6</b> Operational Control Description</p>
<p><input checked="" type="checkbox"/> <b>A.</b> On-site storm drain inlets</p>	<p><input checked="" type="checkbox"/> Locations of inlets.</p>	<p><input checked="" type="checkbox"/> Mark all inlets with the words "Only Rain Down the Storm Drain" or similar. Catch Basin Markers may be available from the Riverside County Flood Control and Water Conservation District, call 951.955.1200 to verify.</p>	<p><input checked="" type="checkbox"/> Maintain and periodically repaint or replace inlet markings.</p> <p><input checked="" type="checkbox"/> Provide stormwater pollution prevention information to new site owners, lessees, or operators.</p> <p><input checked="" type="checkbox"/> See applicable operational BMPs in Fact Sheet SC-44, "Drainage System Maintenance," in the CASQA Stormwater Quality Handbooks at <a href="http://www.cabmphandbooks.com">www.cabmphandbooks.com</a></p> <p><input checked="" type="checkbox"/> Include the following in lease agreements: "Tenant shall not allow anyone to discharge anything to storm drains or to store or deposit materials so as to create a potential discharge to storm drains."</p>
<p><input type="checkbox"/> <b>B.</b> Interior floor drains and elevator shaft sump pumps</p>		<p><input type="checkbox"/> State that interior floor drains and elevator shaft sump pumps will be plumbed to sanitary sewer.</p>	<p><input type="checkbox"/> Inspect and maintain drains to prevent blockages and overflow.</p>
<p><input type="checkbox"/> <b>C.</b> Interior parking garages</p>		<p><input type="checkbox"/> State that parking garage floor drains will be plumbed to the sanitary sewer.</p>	<p><input type="checkbox"/> Inspect and maintain drains to prevent blockages and overflow.</p>

<p>1                      Open Source                      Reporting</p>	<p>NEW YORK MUNICIPAL CODE ENFORCEMENT, MUNICIPAL</p>		
	<p>Enforcement                      Monitoring</p>	<p>Enforcement                      Inspection                      and                      Review</p>	<p>Enforcement                      Monitoring                      and                      Review</p>
<p><input checked="" type="checkbox"/> <b>D1.</b> Need for future indoor &amp; structural pest control</p>		<p><input checked="" type="checkbox"/> Note building design features that discourage entry of pests.</p>	<p><input checked="" type="checkbox"/> Provide Integrated Pest Management information to owners, lessees, and operators.</p>
<p><input checked="" type="checkbox"/> <b>D.</b> Landscape/ Outdoor Pesticide Use</p>	<p><input type="checkbox"/> Show locations of native trees or areas of shrubs and ground cover to be undisturbed and retained.</p> <p><input type="checkbox"/> Show self-retaining landscape areas, if any.</p> <p><input checked="" type="checkbox"/> Show stormwater treatment and hydrograph modification management BMPs. (See instructions in Chapter 3, Step 5 and guidance in Chapter 5.)</p>	<p>State that final landscape plans will accomplish all of the following.</p> <p><input checked="" type="checkbox"/> Preserve existing native trees, shrubs, and ground cover to the maximum extent possible.</p> <p><input checked="" type="checkbox"/> Design landscaping to minimize irrigation and runoff, to promote surface infiltration where appropriate, and to minimize the use of fertilizers and pesticides that can contribute to stormwater pollution.</p> <p><input checked="" type="checkbox"/> Where landscaped areas are used to retain or detain stormwater, specify plants that are tolerant of saturated soil conditions.</p> <p><input checked="" type="checkbox"/> Consider using pest-resistant plants, especially adjacent to hardscape.</p> <p>To insure successful establishment, select plants appropriate to site soils, slopes, climate, sun, wind, rain, land use, air movement, ecological consistency, and plant interactions.</p>	<p><input checked="" type="checkbox"/> Maintain landscaping using minimum or no pesticides.</p> <p><input checked="" type="checkbox"/> See applicable operational BMPs in “What you should know for.....Landscape and Gardening” at <a href="http://rcflood.org/stormwater/Error!">http://rcflood.org/stormwater/Error!</a> Hyperlink reference not valid.</p> <p><input checked="" type="checkbox"/> Provide IPM information to new owners, lessees and operators.</p>

<p>1                      Open Source                      Reporting</p>	<p>YOUR MODIFIED EORCE CODE, M, IC</p>		
<p>1                      Open Source                      Reporting</p>	<p>Permen Control on                      M Dring</p>	<p>Permen Control in M                      e nd rrie</p>	<p>Operation M Inc de in M                      e nd rrie</p>
<p><input type="checkbox"/> E. Pools, spas, ponds, decorative fountains, and other water features.</p>	<p><input type="checkbox"/> Show location of water feature and a sanitary sewer cleanout in an accessible area within 10 feet. (Exception: Public pools must be plumbed according to County Department of Environmental Health Guidelines.)</p>	<p>If the Co-Permittee requires pools to be plumbed to the sanitary sewer, place a note on the plans and state in the narrative that this connection will be made according to local requirements.</p>	<p><input type="checkbox"/> See applicable operational BMPs in "Guidelines for Maintaining Your Swimming Pool, Jacuzzi and Garden Fountain" at <a href="http://rcflood.org/stormwater/">http://rcflood.org/stormwater/</a></p>
<p><input type="checkbox"/> F. Food service</p>	<p><input type="checkbox"/> For restaurants, grocery stores, and other food service operations, show location (indoors or in a covered area outdoors) of a floor sink or other area for cleaning floor mats, containers, and equipment.</p> <p><input type="checkbox"/> On the drawing, show a note that this drain will be connected to a grease interceptor before discharging to the sanitary sewer.</p>	<p><input type="checkbox"/> Describe the location and features of the designated cleaning area.</p> <p><input type="checkbox"/> Describe the items to be cleaned in this facility and how it has been sized to insure that the largest items can be accommodated.</p>	<p><input type="checkbox"/> See the brochure, "The Food Service Industry Best Management Practices for: Restaurants, Grocery Stores, Delicatessens and Bakeries" at <a href="http://rcflood.org/stormwater/">http://rcflood.org/stormwater/</a></p> <p>Provide this brochure to new site owners, lessees, and operators.</p>
<p><input checked="" type="checkbox"/> G. Refuse areas</p>	<p><input checked="" type="checkbox"/> Show where site refuse and recycled materials will be handled and stored for pickup. See local municipal requirements for sizes and other details of refuse areas.</p> <p><input checked="" type="checkbox"/> If dumpsters or other receptacles are outdoors, show how the designated area will be covered, graded, and paved to prevent run-on and show locations of berms to prevent runoff from the area.</p> <p><input type="checkbox"/> Any drains from dumpsters, compactors, and tallow bin areas shall be connected to a grease removal device before discharge to sanitary sewer.</p>	<p><input checked="" type="checkbox"/> State how site refuse will be handled and provide supporting detail to what is shown on plans.</p> <p><input checked="" type="checkbox"/> State that signs will be posted on or near dumpsters with the words "Do not dump hazardous materials here" or similar.</p>	<p><input checked="" type="checkbox"/> State how the following will be implemented:</p> <p>Provide adequate number of receptacles. Inspect receptacles regularly; repair or replace leaky receptacles. Keep receptacles covered. Prohibit/prevent dumping of liquid or hazardous wastes. Post "no hazardous materials" signs. Inspect and pick up litter daily and clean up spills immediately. Keep spill control materials available on-site. See Fact Sheet SC-34, "Waste Handling and Disposal" in the CASQA Stormwater Quality Handbooks at <a href="http://www.cabmphandbooks.com">www.cabmphandbooks.com</a></p>

FORMER ORDINANCE CODES

<p>GENERAL INFORMATION</p>	<p>NEW YORK MUNICIPAL CODES</p>		
<p>1 GENERAL INFORMATION</p>	<p>GENERAL CONTROL MAPPING</p>	<p>GENERAL CONTROL IN MAPPING ENDORSEMENTS</p>	<p>OPERATION MAPPING INCLUDE IN MAPPING ENDORSEMENTS</p>
<p><input type="checkbox"/> . Industrial processes.</p>	<p><input type="checkbox"/> Show process area.</p>	<p><input type="checkbox"/> If industrial processes are to be located on site, state: "All process activities to be performed indoors. No processes to drain to exterior or to storm drain system."</p>	<p><input type="checkbox"/> See Fact Sheet SC-10, "Non-Stormwater Discharges" in the CASQA Stormwater Quality Handbooks at <a href="http://www.cabmphandbooks.com">www.cabmphandbooks.com</a></p> <p>See the brochure "Industrial &amp; Commercial Facilities Best Management Practices for: Industrial, Commercial Facilities" at <a href="http://rcflood.org/stormwater/">http://rcflood.org/stormwater/</a></p>

I E O RCE I E O E R O E C I E	E Y O R M O D I C D E E E O R C E C O R O M , I C E		
1 o e n i o r c e o R n o o n	e r n e n C o n r o o o n M D r i n g	e r n e n C o n r o i i n M e n d r r i e	O e r i o n M I n c d e i n M e n d r r i e
<input type="checkbox"/> I. Outdoor storage of equipment or materials. (See rows J and K for source control measures for vehicle cleaning, repair, and maintenance.)	<input type="checkbox"/> Show any outdoor storage areas, including how materials will be covered. Show how areas will be graded and bermed to prevent run-on or run-off from area.  <input type="checkbox"/> Storage of non-hazardous liquids shall be covered by a roof and/or drain to the sanitary sewer system, and be contained by berms, dikes, liners, or vaults.  <input type="checkbox"/> Storage of hazardous materials and wastes must be in compliance with the local hazardous materials ordinance and a Hazardous Materials Management Plan for the site.	Include a detailed description of materials to be stored, storage areas, and structural features to prevent pollutants from entering storm drains.  Where appropriate, reference documentation of compliance with the requirements of Hazardous Materials Programs for: <ul style="list-style-type: none"> <li>▪ Hazardous Waste Generation</li> <li>▪ Hazardous Materials Release Response and Inventory</li> <li>▪ California Accidental Release (CalARP)</li> <li>▪ Aboveground Storage Tank</li> <li>▪ Uniform Fire Code Article 80 Section 103(b) &amp; (c) 1991</li> <li>▪ Underground Storage Tank</li> </ul> <a href="http://www.cchealth.org/groups/hazmat/">www.cchealth.org/groups/hazmat/</a>	<input type="checkbox"/> See the Fact Sheets SC-31, “Outdoor Liquid Container Storage” and SC-33, “Outdoor Storage of Raw Materials ” in the CASQA Stormwater Quality Handbooks at <a href="http://www.cabmphandbooks.com">www.cabmphandbooks.com</a>

<p>1                      Open Source                      Runoff</p>	<p>YOUR MUNICIPAL CODES, ORDINANCES, AND REGULATIONS</p>		
	<p>Enforcement                      Monitoring</p>	<p>Enforcement                      Incentives</p>	<p>Enforcement                      Incentives</p>
<p><input type="checkbox"/> . Vehicle and Equipment Cleaning</p>	<p><input type="checkbox"/> Show on drawings as appropriate:</p> <p>(1) Commercial/industrial facilities having vehicle/equipment cleaning needs shall either provide a covered, bermed area for washing activities or discourage vehicle/equipment washing by removing hose bibs and installing signs prohibiting such uses.</p> <p>(2) Multi-dwelling complexes shall have a paved, bermed, and covered car wash area (unless car washing is prohibited on-site and hoses are provided with an automatic shut-off to discourage such use).</p> <p>(3) Washing areas for cars, vehicles, and equipment shall be paved, designed to prevent run-on to or runoff from the area, and plumbed to drain to the sanitary sewer.</p> <p>(4) Commercial car wash facilities shall be designed such that no runoff from the facility is discharged to the storm drain system. Wastewater from the facility shall discharge to the sanitary sewer, or a wastewater reclamation system shall be installed.</p>	<p><input type="checkbox"/> If a car wash area is not provided, describe any measures taken to discourage on-site car washing and explain how these will be enforced.</p>	<p>Describe operational measures to implement the following (if applicable):</p> <p><input type="checkbox"/> Washwater from vehicle and equipment washing operations shall not be discharged to the storm drain system. Refer to “Outdoor Cleaning Activities and Professional Mobile Service Providers” for many of the Potential Sources of Runoff Pollutants categories below. Brochure can be found at <a href="http://rcflood.org/stormwater/">http://rcflood.org/stormwater/</a></p> <p><input type="checkbox"/> Car dealerships and similar may rinse cars with water only.</p>



<p>GENERAL INFORMATION</p>	<p>NEW YORK MUNICIPAL CODE SOURCE CONTROL, MINIMUM, REQUIREMENTS</p>		
<p>1 GENERAL INFORMATION</p>	<p>GENERAL CONTROL MEASURES</p>	<p>GENERAL CONTROL MEASURES</p>	<p>GENERAL CONTROL MEASURES</p>
<p><input type="checkbox"/> . Vehicle/Equipment Repair and Maintenance</p>	<p><input type="checkbox"/> Accommodate all vehicle equipment repair and maintenance indoors. Or designate an outdoor work area and design the area to prevent run-on and runoff of stormwater.</p> <p><input type="checkbox"/> Show secondary containment for exterior work areas where motor oil, brake fluid, gasoline, diesel fuel, radiator fluid, acid-containing batteries or other hazardous materials or hazardous wastes are used or stored. Drains shall not be installed within the secondary containment areas.</p> <p><input type="checkbox"/> Add a note on the plans that states either (1) there are no floor drains, or (2) floor drains are connected to wastewater pretreatment systems prior to discharge to the sanitary sewer and an industrial waste discharge permit will be obtained.</p>	<p><input type="checkbox"/> State that no vehicle repair or maintenance will be done outdoors, or else describe the required features of the outdoor work area.</p> <p><input type="checkbox"/> State that there are no floor drains or if there are floor drains, note the agency from which an industrial waste discharge permit will be obtained and that the design meets that agency's requirements.</p> <p><input type="checkbox"/> State that there are no tanks, containers or sinks to be used for parts cleaning or rinsing or, if there are, note the agency from which an industrial waste discharge permit will be obtained and that the design meets that agency's requirements.</p>	<p>In the Stormwater Control Plan, note that all of the following restrictions apply to use the site:</p> <p><input type="checkbox"/> No person shall dispose of, nor permit the disposal, directly or indirectly of vehicle fluids, hazardous materials, or rinsewater from parts cleaning into storm drains.</p> <p><input type="checkbox"/> No vehicle fluid removal shall be performed outside a building, nor on asphalt or ground surfaces, whether inside or outside a building, except in such a manner as to ensure that any spilled fluid will be in an area of secondary containment. Leaking vehicle fluids shall be contained or drained from the vehicle immediately.</p> <p><input type="checkbox"/> No person shall leave unattended drip parts or other open containers containing vehicle fluid, unless such containers are in use or in an area of secondary containment.</p> <p>Refer to "Automotive Maintenance &amp; Car Care Best Management Practices for Auto Body Shops, Auto Repair Shops, Car Dealerships, Gas Stations and Fleet Service Operations". Brochure can be found at <a href="http://rcflood.org/stormwater/">http://rcflood.org/stormwater/</a></p> <p>Refer to Outdoor Cleaning Activities and Professional Mobile Service Providers for many of the Potential Sources of Runoff Pollutants categories below. Brochure can be found at <a href="http://rcflood.org/stormwater/">http://rcflood.org/stormwater/</a></p>

<p>GENERAL</p>	<p>YOUR MUNICIPAL CODES</p>		
<p>1 Open Source Resource</p>	<p>General Control Measure</p>	<p>General Control Measure</p>	<p>General Control Measure</p>
<p><input type="checkbox"/> Fuel Dispensing Areas</p>	<p><input type="checkbox"/> Fueling areas<sup>6</sup> shall have impermeable floors (i.e., portland cement concrete or equivalent smooth impervious surface) that are: a) graded at the minimum slope necessary to prevent ponding; and b) separated from the rest of the site by a grade break that prevents run-on of stormwater to the maximum extent practicable.</p> <p><input type="checkbox"/> Fueling areas shall be covered by a canopy that extends a minimum of ten feet in each direction from each pump. [Alternative: The fueling area must be covered and the cover's minimum dimensions must be equal to or greater than the area within the grade break or fuel dispensing area<sup>1</sup>.] The canopy [or cover] shall not drain onto the fueling area.</p>		<p><input type="checkbox"/> The property owner shall dry sweep the fueling area routinely.</p> <p><input type="checkbox"/> See the Fact Sheet SD-30 , “Fueling Areas” in the CASQA Stormwater Quality Handbooks at <a href="http://www.cabmphandbooks.com">www.cabmphandbooks.com</a></p>

<sup>6</sup> The fueling area shall be defined as the area extending a minimum of 6.5 feet from the corner of each fuel dispenser or the length at which the hose and nozzle assembly may be operated plus a minimum of one foot, whichever is greater.

<p>1                      Open Source                      Runoff</p>	<p>NEW YORK MUNICIPAL CODE E SOURCE CONTROL, MINIMIZING</p>		
	<p>Prevent Contamination                      M Drilling</p>	<p>Prevent Contamination                      M                      End</p>	<p>Operation M Include in M                      End</p>
<p><input type="checkbox"/> M. Loading Docks</p>	<p><input type="checkbox"/> Show a preliminary design for the loading dock area, including roofing and drainage. Loading docks shall be covered and/or graded to minimize run-on to and runoff from the loading area. Roof downspouts shall be positioned to direct stormwater away from the loading area. Water from loading dock areas shall be drained to the sanitary sewer, or diverted and collected for ultimate discharge to the sanitary sewer.</p> <p><input type="checkbox"/> Loading dock areas draining directly to the sanitary sewer shall be equipped with a spill control valve or equivalent device, which shall be kept closed during periods of operation.</p> <p><input type="checkbox"/> Provide a roof overhang over the loading area or install door skirts (cowling) at each bay that enclose the end of the trailer.</p>		<p><input type="checkbox"/> Move loaded and unloaded items indoors as soon as possible.</p> <p><input type="checkbox"/> See Fact Sheet SC-30, "Outdoor Loading and Unloading," in the CASQA Stormwater Quality Handbooks at <a href="http://www.cabmphandbooks.com">www.cabmphandbooks.com</a></p>

<p>GENERAL INFORMATION</p>	<p>NEW YORK MUNICIPAL CODE SOURCE CONTROL, MINIMIZING</p>		
<p>1 GENERAL INFORMATION</p>	<p>GENERAL CONTROL INFORMATION MINIMIZING</p>	<p>GENERAL CONTROL INFORMATION MINIMIZING</p>	<p>GENERAL CONTROL INFORMATION MINIMIZING</p>
<p><input type="checkbox"/> . Fire Sprinkler Test Water</p>		<p><input type="checkbox"/> Provide a means to drain fire sprinkler test water to the sanitary sewer.</p>	<p><input type="checkbox"/> See the note in Fact Sheet SC-41, "Building and Grounds Maintenance," in the CASQA Stormwater Quality Handbooks at <a href="http://www.cabmphandbooks.com">www.cabmphandbooks.com</a></p>
<p><b>O. Miscellaneous Drain or Wash Water or Other Sources</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Boiler drain lines</li> <li><input type="checkbox"/> Condensate drain lines</li> <li><input type="checkbox"/> Rooftop equipment</li> <li><input type="checkbox"/> Drainage sumps</li> <li><input checked="" type="checkbox"/> Roofing, gutters, and trim.</li> <li><input type="checkbox"/> Other sources</li> </ul>		<ul style="list-style-type: none"> <li><input type="checkbox"/> Boiler drain lines shall be directly or indirectly connected to the sanitary sewer system and may not discharge to the storm drain system.</li> <li><input type="checkbox"/> Condensate drain lines may discharge to landscaped areas if the flow is small enough that runoff will not occur. Condensate drain lines may not discharge to the storm drain system.</li> <li><input type="checkbox"/> Rooftop equipment with potential to produce pollutants shall be roofed and/or have secondary containment.</li> <li><input checked="" type="checkbox"/> Any drainage sumps on-site shall feature a sediment sump to reduce the quantity of sediment in pumped water.</li> <li><input type="checkbox"/> Avoid roofing, gutters, and trim made of copper or other unprotected metals that may leach into runoff.</li> </ul> <p>Include controls for other sources as specified by local reviewer.</p>	

FORMER SOURCE SOURCE CONTROL CHECK

IEEORCE IEE OEROREC IIE	EYOR M ODI CODE EORCE CORO M, IC E		
1 open source o Rno on	er nen Control on M Dring	er nen Control in M e nd rrie	Operation M Inc de in M e nd rrie
<input checked="" type="checkbox"/> . Plazas, sidewalks, and parking lots.			<input checked="" type="checkbox"/> Sweep plazas, sidewalks, and parking lots regularly to prevent accumulation of litter and debris. Collect debris from pressure washing to prevent entry into the storm drain system. Collect washwater containing any cleaning agent or degreaser and discharge to the sanitary sewer not to a storm drain.

# Appendix 9: O&M

*Operation and Maintenance Plan and Documentation of Finance, Maintenance and Recording Mechanisms*

## Operation and Maintenance

Responsible Party	BMP	Description of BMP and Method of Implementation	Maintenance Schedule
Owner	Education for Property Owners and Tenants	<i>The property owner shall familiarize him/herself with the WQMP document and content, including BMP educational materials in Appendix 6 this WQMP and shall ensure that all occupants are also educated on stormwater BMPs.</i>	Yearly
Owner	Activity Restrictions	<i>Owner shall control site activities to prevent or reduce runoff pollutant. Activity restriction listed per attachment in this WQMP and owner or owner's representative shall monitor all activities on site during business hours to prevent pollutants in site runoff.</i>	N/A
Owner	Landscape Management	<i>Maintenance shall be conducted by a landscape contractor on a weekly basis to verify that the irrigation system is functioning properly and to repair as needed. Landscape contractor will also verify that there are no leaks or run-off from landscape areas. Adjust irrigation heads and systems run times as necessary to prevent overwatering of vegetation, overspray or run-off from landscape areas to ensure the health and aesthetic quality of the landscape. Mowing and trimming waste shall be properly removed from the site and herbicides, pesticides and fertilizers shall be properly applied to prevent storm drainage contamination.</i>	Weekly
Owner	BMP Maintenance	<i>The owner and/or his maintenance contractor shall regularly inspect the proposed BMP systems for signs of erosion or sediment and debris buildup and clean/repair as needed (see form 5-1 for a listing of all BMP maintenance items).</i>	As Needed
Owner	Spill Contingency Plan	<i>All hazardous and non-hazardous material spills will be cleaned up and disposed of immediately. The Property Owner shall report all spill incidents to the City of Perris and County Fire Hazmat and shall provide Documentation, Education of Cleanup Procedure, Notify Responsible Agency.</i>	Yearly
Owner	Litter/Debris Control Program	<i>Litter and debris will be collected and deposited in appropriate covered receptacles as part of the regular sweeping/cleaning program. Any accumulated trash or debris onsite will be removed and disposed of properly on a weekly basis.</i>	Weekly or as needed
Owner	Employee Training	<i>The owner will ensure that tenants are also familiar with onsite BMPs and necessary maintenance required by the tenants/employees. Owner will check with City and County at least once a year to obtain new or updated educational materials and provide these materials to tenants/employees. Employees shall be trained to cleanup spills and participate in ongoing maintenance. The WQMP requires annual employee training and new hires within 2 months.</i>	Yearly
Owner	Parking Lot Sweeping	<i>The parking lots will be swept regularly. Private onsite street entrances and parking lots will be thoroughly swept annually before the rainy season and weekly to remove accumulated sediment and debris.</i>	Weekly or as needed

## Operation and Maintenance

Responsible Party	BMP	Description of BMP and Method of Implementation	Maintenance Schedule
Owner	Comply with all other applicable NPDES	<i>During the construction phase of this project, the applicant shall file a Notice of Intent for coverage under the GCP and acquire a WDID # to demonstrate compliance with the General Construction Permit. As necessary, future occupants of this site shall apply for coverage under the General Industrial Permit or Region 8, Sector Specific Permit.</i>	N/A
Owner	Storm Drain Signage	<i>All on-site drainage inlets will be stenciled or signage will be provided that indicates "NO DUMPING, DRAINS TO RIVER" or equivalent.</i>	Annually or as needed to maintain legibility
Owner	Trash Storage Area	<i>All trash enclosures on this site shall have a solid roof cover to prevent dumpster contents and enclosure from coming into contact with rainwater. Shall comply with CASQA SD-32.</i>	Weekly
Owner	Efficient Irrigation	<i>The irrigation system will include devices to prevent low head drainage, overspray and run off through the use of pressure regulating devices, check valves, flow sensors, proper spacing, low precipitation emission devices and ET or weather based controllers. Landscaping and irrigation shall be consistent with the State Model Water Efficient Landscape Ordinance and the City of Perris Landscape Development Standards. Plants installed will be arranged according to similar hydro-zones and meet the required water budget for the site. Landscape areas used for water quality swales or infiltration areas shall have proper plants for saturated soils, drought tolerance and erosion control qualities. Shade trees shall be used to intercept rainwater and reduce heat gain on paving.</i>	Weekly or as needed for repair
Owner	Site Design and Landscape Planning	<i>Inspect side slope of basin for erosion. Repair eroded areas. Inspect riprap at basin, replace misplaced/missing rock. Inspect depth of riprap and replace as necessary.</i>	Annually or after storm event
Owner	Infiltration Trench (Private)	<i>Observation of drain time for the design storm after completion to confirm desired drain time has been obtained. Inspect semi-annually at beginning and end of wet season to identify potential problems such as erosion of the slopes near the trench. Remove accumulated trash/debris at the start and end of the wet season Inspect for standing water at the end of the wet season and by inspecting within 48 hours of significant rain events. Check for surface ponding. If ponding is only above the trench, remove, wash and replace pea gravel. Check observation well for ponding. If the trench becomes plugged, remove rock materials. Provide a fresh infiltration surface by excavating an additional 2-4 inches of soil and replace the rock material</i>	Semi-Annual, before Wet Season (October 1) and midway through the wet season or by Feb 1.



## Operation and Maintenance

Responsible Party	BMP	Description of BMP and Method of Implementation	Maintenance Schedule
Owner	Catch Basins	<p><i>The on-site catch basins shall be inspected before the rainy season (October 1st) and before and after each storm to ensure proper operation. The owner shall contract with a qualified landscape contractor to inspect and clean out accumulation of trash, litter and sediment. Evidence of illegal dumping shall be reported to the County.</i></p>	<p>Semi-Annual, before Wet Season (October 1) and midway through the wet season or by Feb 1.</p>
Owner	Catch Basin Filters	<p><i>The catch basin shall be visually inspected for defects and possible illegal dumping. If illegal dumping has occurred, the proper authorities and property owner representative shall be notified as soon as practicable. Using an industrial vacuum, the collected materials shall be removed from the liner. When all of the collected materials have been removed, the filter medium pouches shall be removed by unsnapping the tether from the D-ring and set to one side. The filter liner, gaskets, stainless steel frame and mounting brackets, etc., shall be inspected for continued serviceability. Minor damage or defects found shall be corrected on-the-spot and a notation made on the Maintenance Record. More extensive deficiencies that affect the efficiency of the filter (torn liner, etc.) Filter medium pouches shall be inspected for defects and continued serviceability and replaced as necessary, and the pouch tethers re-attached to the liner's D-ring.</i></p>	<p>Quarterly, once before Wet Season (October 1) and once midway through the wet season or by Feb 1.</p>

			Maintenance Responsibility				Funding Mechanism for Maintenance			Maintenance Costs	
BMP	Used	Not Used	Owner **	City	County	Flood District	Owner	Developer	Public *	1-year (\$)	2-year (\$)
Hydro seeding & Mulching Private	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A	N/A
Landscape Private	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1000	2000
Landscape Public	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	250	500
Lawns	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A	N/A
Impervious permanent cover (concrete/asphalt) Private	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1,000	2,000
Impervious permanent cover (concrete/asphalt) Public	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	250	500
Pervious permanent cover (gravel)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A	N/A
Down drains	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	100	200
Ribbon Gutter Private	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A	N/A
Ribbon Gutter Public	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A	N/A
Curb & gutter Private	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	250	500
Curb & gutter Public	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	250	500
Storm Drain Private	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	500	1000
Storm Drain Public	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A	N/A
Infiltration Basin	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1,000	2,000
Education Materials	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Free	Free
Vehicle Wash Area	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A	N/A
Catch Basin/Inlet Stenciling	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	100	200

# Appendix 10: Educational Materials

*BMP Fact Sheets, Maintenance Guidelines and Other End-User BMP Information*

**BIOLOGICAL RESOURCES ASSESSMENT, FOCUSED BOTANICAL AND NARROW  
ENDEMIC PLANT SURVEYS, TREE SURVEY, AND URBAN WILDLANDS INTERFACE  
ASSESSMENT REPORT FOR APNS 563-250-028 AND 563-250-031,  
CUP 190065, IDYLLWILD, RIVERSIDE COUNTY, CALIFORNIA**

±2.43 Acres

APNs 563-250-028 & 563-250-031, CUP 190065, Section 7,  
Township 5 South, Range 3 East, USGS Idyllwild 7.5' Topographic Quadrangle Map

**Prepared For:**

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**Report Summary:**

The site is two parcels in Jeffrey pine forest with ongoing human disturbance. San Jacinto Mountains bedstraw, Munz's mariposa lily, and Johnston's rockcress are absent. No special status plants observed during focused survey. Native oaks present and some will be impacted; an Oak Tree Habitat Mitigation and Monitoring Plan may be required. Other native trees will also be impacted. One special status wildlife species observed on the site, Nuttall's woodpecker. Cooper's hawk and oak titmouse observed on adjacent parcel. No suitable habitat for fairy shrimp or riparian birds. No perennial aquatic habitat and mountain yellow-legged frog is absent. Habitat for nesting birds present and pre-construction nesting bird clearance survey recommended. San Bernardino flying squirrel, California spotted owl, and southern rubber boa have low potential for occurrence. There are no jurisdictional waters/wetlands. Site is not within a wildlife corridor.

**Surveys Conducted By:** Guy Bruyea

**Surveys Conducted:** July through September 2020, February through June 2021

**Report Date:** October 2020, revised February 2021, June 2021

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## **MANAGEMENT SUMMARY**

L&L Environmental, Inc. conducted biological surveys on APNs 563-250-028 and -031, a total of ±2.43 acres located in Idyllwild, California. The purpose of this study was to examine the subject property to determine presence/absence of biological resources.

The site is within area covered by the Western Riverside County Multiple Species Habitat Conservation Plan (MSHCP) but is not within the MSHCP Criteria Area. The MSHCP requires a habitat assessment to address riparian/riverine and vernal pool habitats and associated species, mountain yellow-legged frog, and narrow endemic plant species Johnston's rockcress (*Boechea johnstonii*), Munz's [San Jacinto] mariposa lily (*Calochortus palmeri* var. *munzii*), and San Jacinto Mountains bedstraw (*Galium angustifolium* ssp. *jacinticum*).

The site is located in a low density residential and commercial area within a forest setting. The parcels are mostly developed or disturbed in association with current and past land use. Vegetation onsite is Jeffrey pine forest mixed with black oak and canyon live oak with a limited understory of a few native shrubs and native and non-native annuals. Some ornamental species are also present.

The narrow endemic species Munz's mariposa lily, San Jacinto Mountains bedstraw, and Johnston's rockcress are considered absent from the site. No special status plants were identified onsite during focused surveys.

Native oak trees are present onsite and some fall within the proposed Project footprint. Riverside County regulates oak trees and project development plans are required to minimize and mitigate impacts to oak trees. Removal of other native trees may also require a permit. The project proponent should consult with Riverside County Environmental Programs Department (EPD) to determine requirements for altering or removing oak trees and other native trees. Other native trees onsite will also be impacted.

No federal or state-listed endangered or threatened wildlife species were observed. One special status species, Nuttall's woodpecker, was observed on the site. Cooper's hawk and oak titmouse were observed on an adjacent parcel. Most special status species have low potential for occurrence or are not expected to occur. A few were determined to have a moderate or high potential for occurrence.

There is no suitable habitat for listed fairy shrimp species or riparian birds (least Bell's vireo, southwestern willow flycatcher, and western yellow-billed cuckoo) and they are considered absent. No drainages, vernal pools, or ponding areas were observed on the site. There is no perennial aquatic habitat on or adjacent to the Project site and mountain yellow-legged frog is considered absent.

There is suitable habitat for nesting birds, including raptors, onsite. Nesting birds are protected under state and federal laws and a nesting bird clearance survey is recommended three (3) days prior to the start of vegetation clearing or ground disturbance within the nesting season (February 1 to September 15). If nesting birds are present, avoidance of nest sites is required and a buffer of 300 to 500 feet (or as determined by a qualified biologist) is recommended until juvenile birds are no longer dependent on the nest and/or a biologist has verified that the nest is inactive.

San Bernardino flying squirrel, California spotted owl, and southern rubber boa have a low potential for occurrence. Mountain lion has a high potential to move through and potentially forage on the site.

Forest species such as raccoons, coyotes, birds, etc. likely move and forage throughout the Project vicinity, but the site is not within a wildlife corridor.



## **1.0) INTRODUCTION**

The following report was prepared by L&L Environmental, Inc. (L&L) for WSCS Design. It describes the results of a biological survey to determine presence/absence of biological resources at a proposed development in the community of Idyllwild. The Project site consists of APNs 563-250-028 and 563-250-031, totaling ±2.43 acres.

The assessment consisted of (1) a records search and literature review, conducted to determine the species of concern in the project area and proximity to documented special status species occurrences, (2) field reconnaissance, intended to identify plants and animals on the property and presence/absence of habitat for species of concern including mountain yellow-legged frog and narrow endemic plants, (3) focused surveys for narrow endemic plants (Johnston's rockcress, Munz's [San Jacinto] mariposa lily, and San Jacinto Mountains bedstraw) including visits to known reference sites, and (4) a tree survey to map and evaluate oaks and other native trees on the site.

### **1.1) Project Description**

The Project consists of construction of extended stay lodging immediately north and east of existing residential units. The three (3) existing structures are on APN 563-250-028 (referred to as Parcel 028 hereafter) and were previously operated as the Apple Blossom Inn, established in 1978. These structures have been converted for residential use.

The site plan (dated May 13, 2019) shows an additional 11 units to be constructed on Parcel 028 to the east of the existing structures. Another 16 units are planned for APN 563-250-031 (referred to as Parcel 031 hereafter) (Figure 7).

APN 563-250-017 (1.14 acres) was included in the surveys and preliminary report but was subsequently removed from the Project (per email from Wade Shuey, June 22, 2021). This parcel is not a part and is not addressed in this report. Information regarding this parcel that was included in the preliminary report has been removed from this report.

### **1.2) Location**

The site is located in the unincorporated community of Idyllwild in the San Jacinto Mountains of Riverside County (Figure 1). Specifically, the site is located between State Route 243 (Banning-Idyllwild Panoramic Highway) on the west, east and west of the northern end of Oakwood Street, and about 270 feet north of Pine Crest Avenue. It is situated within Section 7

of Township 5 South, Range 3 East, on the U.S. Geological Survey (USGS) Idyllwild 7.5' topographic quadrangle (Figure 2).

The site is located in a low density residential and commercial area within a forest setting. The community of Idyllwild is surrounded by the San Bernardino National Forest and Mount San Jacinto State Park. The site is generally bounded as follows: to the west by State Route 243 and a portion of Mount San Jacinto State Park and low density residential and commercial beyond; to the east by low density residential and commercial; and to the north and south by low density residential and commercial (Figure 3).

### 1.3) Vegetation and Setting

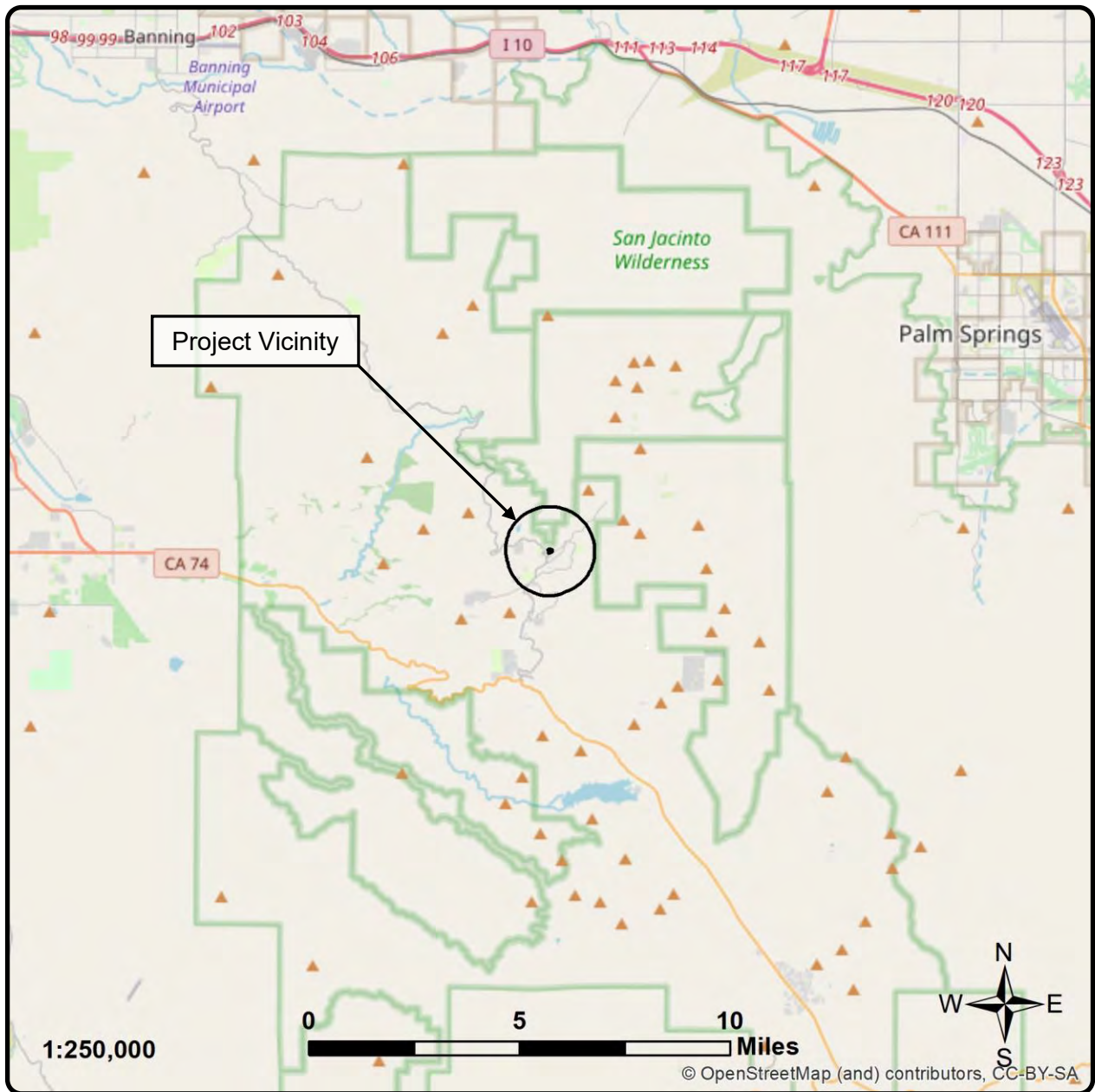
Parcel 028 is mostly developed or disturbed in association with its past operation as the Apple Blossom Inn. More recently, the three (3) existing structures have been converted for residential use. A paved driveway enters the property from Highway 243 uphill into a paved parking lot. The paved driveway continues through the property between two existing buildings and exits onto Oakwood Street. Undeveloped areas on the east side of the parcel (behind the existing buildings) appear to be regularly impacted by vehicle parking and storage. Undeveloped areas are sparsely vegetated with a mix of native and non-native annual plants. Several large trees are present, mainly native pines and oaks, as well as a few native shrubs.

The northern portion of Parcel 031 contains a paved road (driveway) that becomes unimproved at its northeast corner. A small unoccupied structure is present on the west-central portion of the site. The site appears to have been cleared historically as there are few perennials except for several mature trees. Residential housing abuts the northern, southern and eastern site boundaries. Associated residential fencing is present along its southern and eastern edges. Much of the parcel is disturbed by a driveway and what appears to be vehicle parking and storage.

### 1.4) Soils and Topography

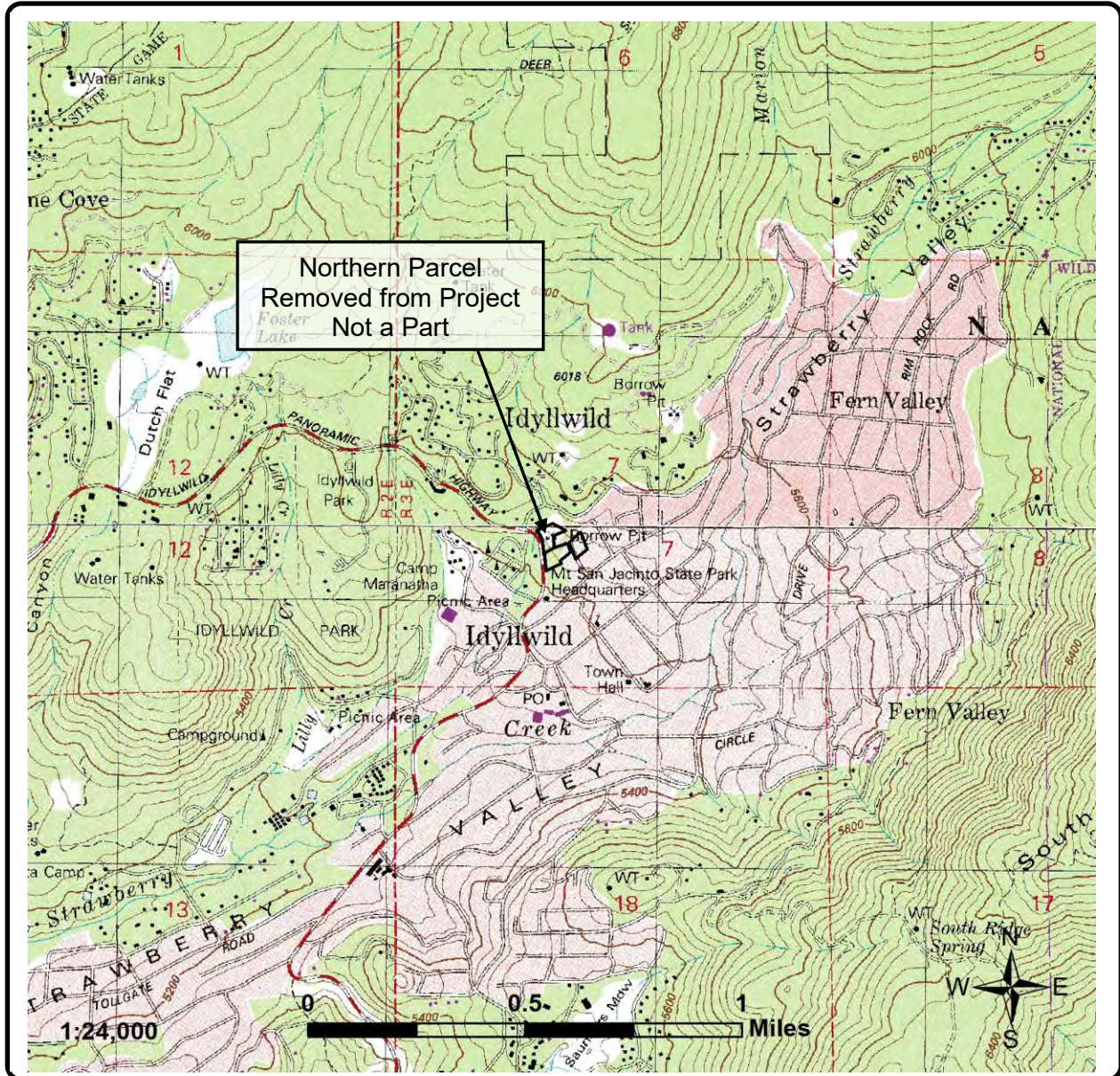
The site gradually to steeply increases in elevation as it trends away from Highway 243 to the east, with elevations ranging from 5,462 feet (1,664 meters) above mean sea level (AMSL) at the southwest corner of Parcel 028 to 5,523 feet (1,683 meters) AMSL at the northeast corner of Parcel 031. No drainages were observed on the site.

The parcels are mapped as Wind River-Oak Glen families association, 2 to 15 percent slopes (KoD) (NRCS 2021) (Figure 4).



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June 2021

**Figure 1**  
  
**Project Vicinity Map**  
  
APNS 563-250-017, -028, & -031, Idyllwild  
County of Riverside, California



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BIOLOGICAL AND CULTURAL  
INVESTIGATIONS AND MONITORING

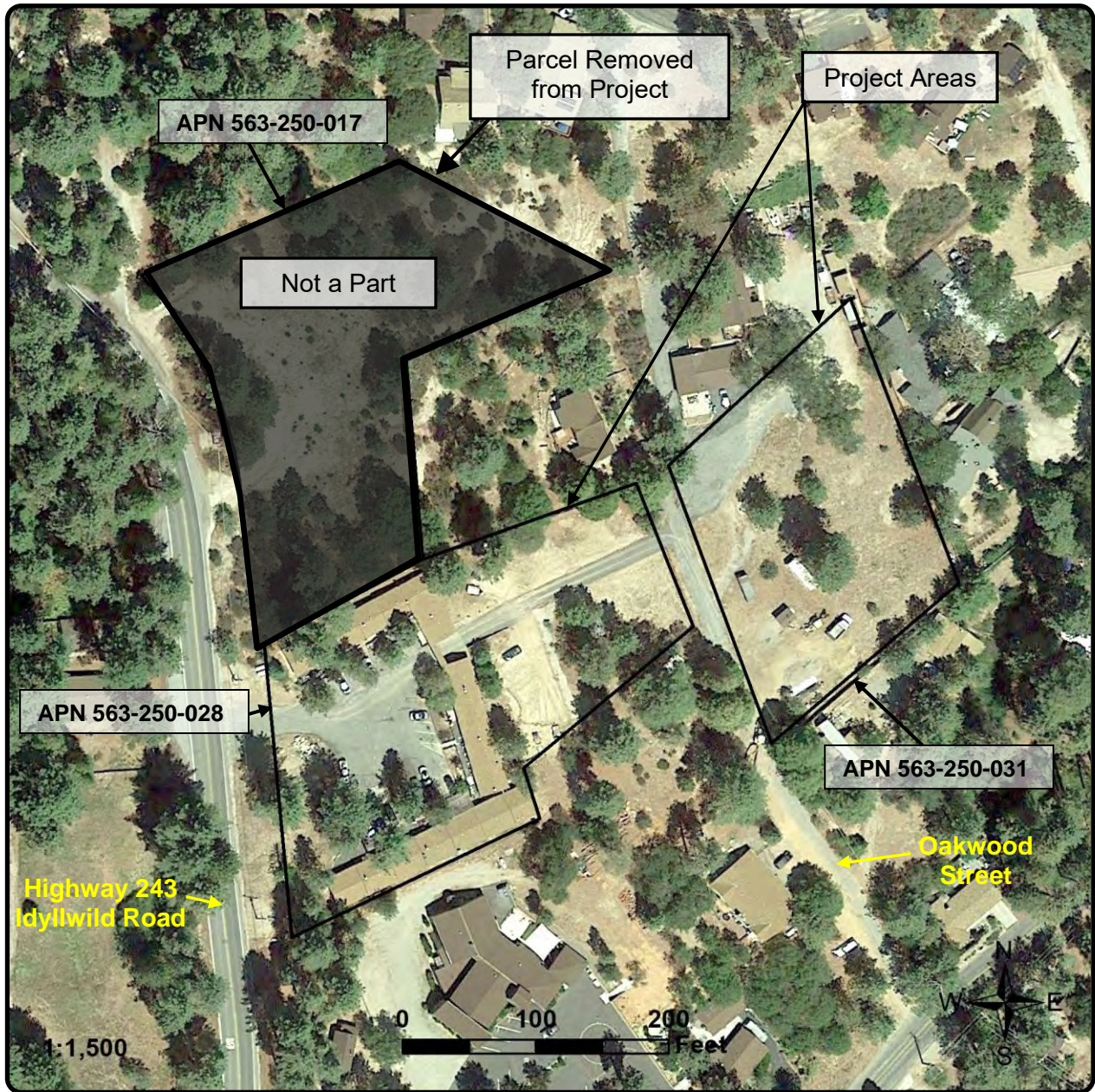
WSCS-19-738  
June 2021

**Figure 2**

**Project Location Map**

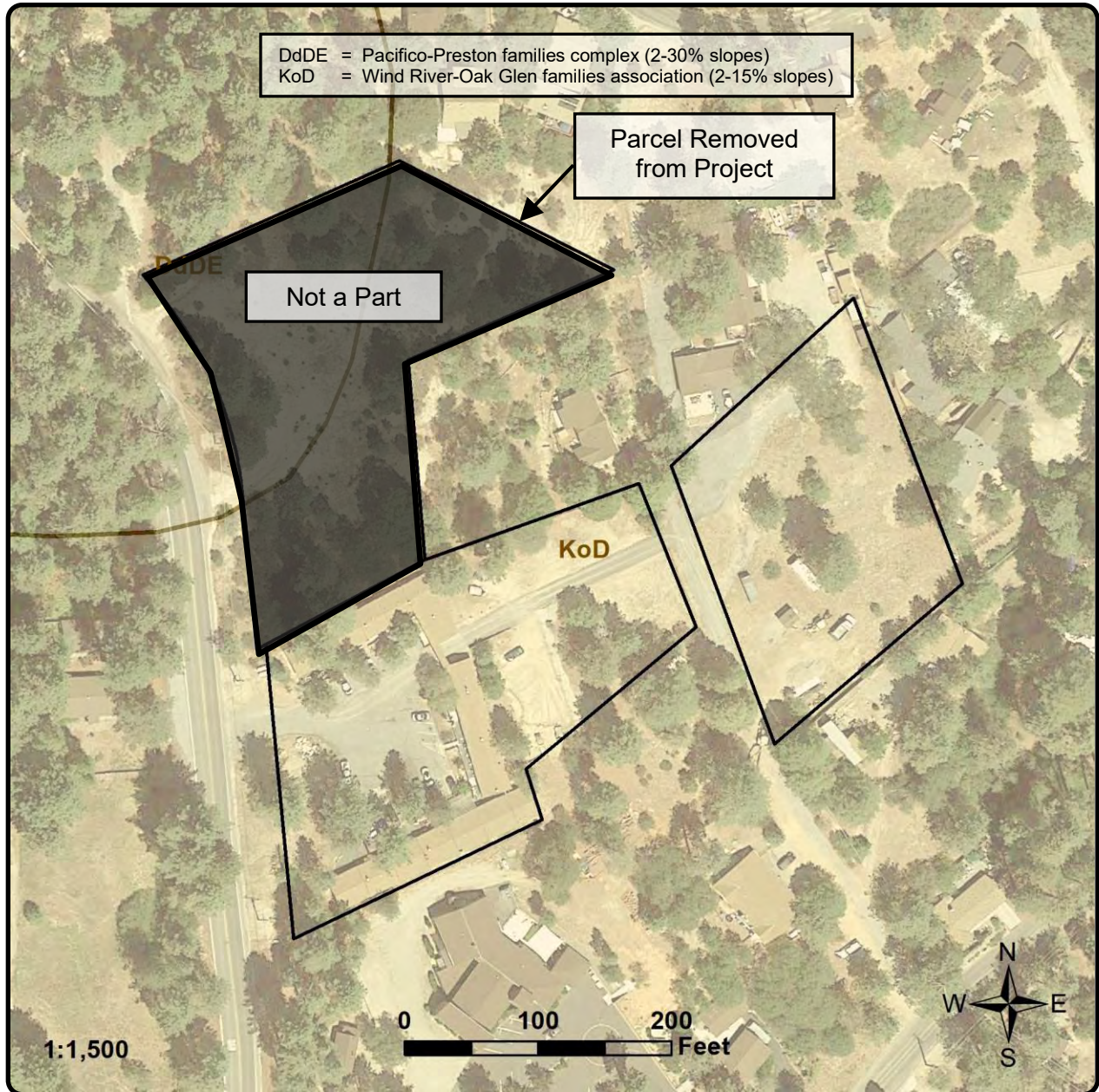
(USGS Idyllwild [1988] quadrangle,  
Section 7, Township 5 South, Range 3 East)

APNS 563-250-017, -028, & -031, Idyllwild  
County of Riverside, California



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**Figure 3**  
  
**Aerial Photograph**  
(Aerial obtained from Google Earth, August 2018)  
  
APNS 563-250-017, -028, & -031, Idyllwild  
County of Riverside, California



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**Figure 4**

**Soils Map**  
 (Aerial obtained from Google Earth, August 2018,  
 USDA Nat. Res. Cons. Serv. SSURGO Data)

APNS 563-250-017, -028, & -031, Idyllwild  
 County of Riverside, California

## **2.0) METHODS AND PERSONNEL**

For the purposes of this report, Parcel 028 refers to APN 563-250-028 and Parcel 031 refers to APN 563-250-031 (see Figure 3). The 'Project' or 'Project site' refers to both parcels collectively. Focused surveys include only the portions of the site with suitable habitat for the species, plus any buffers required by protocol. APN 563-250-017 was included in the surveys but subsequently removed from the Project and is not addressed in this report.

### **2.1) Literature Review**

Certain plants and animals have been listed as threatened or endangered under state or federal Endangered Species Acts. Other species have not been formally listed, but declining populations or habitat availability are reasons for concern regarding their long-term viability. These species are included in lists compiled by resource management agencies or conservation organizations. In this report, the term "listed" refers to all species that are listed, or candidates for listing, as threatened or endangered by the U.S. Fish and Wildlife Service (USFWS) or California Department of Fish and Wildlife (CDFW). "Special status species" refers to all species included in one or more compendia of rare species, but not listed as threatened or endangered by USFWS or CDFW.

Pertinent literature was reviewed to identify local occurrences and habitat requirements of special status species and communities occurring in the region. Literature reviewed included compendia provided by resource agencies (CDFW 2021a, 2021b), the Western Riverside County Multiple Species Habitat Conservation Plan (MSHCP; Dudek 2003), and a search of the California Natural Diversity Database (CNDDDB; CDFW 2021c) and California Native Plant Society Inventory of Rare and Endangered Plants (CNPS 2021) for the Project topographic quadrangle (Idyllwild) and adjacent quadrangles (San Jacinto Peak, Lake Fulmor, Palm Springs, Blackburn Canyon, Palm View Peak, Cahuilla Mountain, Anza, and Butterfly Peak), and a search of the U.S. Fish and Wildlife Service Information for Planning and Consultation (IPaC; USFWS 2021) for the Project site.

A habitat assessment survey was previously conducted by L&L on Parcel 028 only in November 2019 (L&L 2019). Information from that survey is incorporated into this report as appropriate.

Potentials for occurrence of plant and wildlife species were evaluated and classified as either absent, not expected, low, moderate, high, or occurs. These are defined as follows:

Occurs: Species was detected during surveys or previously documented on the Project site or adjacent areas.

High: Species documented in the vicinity (i.e., within 5 miles) of the Project site and suitable habitat is present, but species not detected during surveys.

Moderate: Species documented in the vicinity of the Project site or suitable habitat present and site is within geographic and elevational range of the species.

Low: Species not documented in the vicinity of the Project site or suitable habitat is marginal.

Not Expected: Species not documented in the vicinity of the Project site and suitable habitat marginal or absent, or site is not within geographic and elevational range of the species.

Absent: No potential for the species to occur due to lack of habitat, geographic or elevation range, species life history, survey results, etc.

Classifications are based on the presence and quality of habitat, geographic and elevation range of species, proximity to a known occurrence of a species obtained from CNDDDB or other reliable data, and field observations. Classifications for individual species may be modified based on biologists' experience and expert opinion.

Scientific names of plants follow Baldwin et al. (2012) with updates from the online Jepson eFlora (Jepson 2021). Scientific names of animals follow Stebbins (1985), Jameson and Peeters (1988), BNA (2021), Sibley (2000), and Arnett (2000) with updates from academic sources. Vegetation community classifications follow Sawyer et al. (2009). Ranking of sensitive vegetation communities is from the California Department of Fish and Wildlife (CDFW 2020). Current conservation status of plant and wildlife species determined from CDFW (2021a, 2021b).

## 2.2) Habitat Assessment and Botanical and Narrow Endemic Plant Surveys

L&L biologist Guy Bruyey visited the site between July and September 2020 and between February and June 2021 to describe vegetation and habitat and evaluate the site for the presence of suitable habitat for special status wildlife, including mountain yellow-legged frog, and special status and narrow endemic plant species. Surveys included an evaluation of presence/absence of riparian, riverine, and vernal pool habitats.



Focused surveys were conducted for Johnston's rockcress, Munz's (San Jacinto) mariposa lily, and San Jacinto Mountains bedstraw during the flowering season.

Table 1. Survey Dates and Weather Conditions

Date	Time	Weather	Wind (mph)
07.07.2020	1030-1300	Clear, 76-84°F	0-2
07.24.2020	1400-1530	Clear, 81-84°F	2-6
08.17.2020	0800-1000	Partly cloudy, 76-87°F	0-3
09.09.2020	0900-1030	Clear, 68-74°F	1-4
02.19.2021	1145-1300	Clear, 62-65°F	0-2
04.02.2021	1230-1600	Clear, 69-77°F	3-6
04.19.2021	1000-1400	Clear, 71-75°F	0-3
05.12.2021	1200-1345	Clear, 72-76°F	0-4
05.26.2021	1000-1130	Clear, 68-73°F	2-5
06.21.2021	0915-1030	Clear, 76-80°F	3-6

A total of about 22.75 person-hours were spent on the surveys, including visits to known reference sites for narrow endemic plants. All habitat types on the site were visited on foot. The site was surveyed by conducting a series of meandering transects across the subject property where possible, stopping periodically for observations and notations. A general habitat map and field notes were completed at the time of the survey. All field surveys were conducted during daylight hours. Digital photographs were taken to record the condition of the site during the present survey.

Botanical surveys consisted of walking over the entire site in a meandering pattern to assure sufficient coverage of all areas and habitat types. Surveys were not conducted during inclement weather (Table 1). The methodology used is consistent with recommendations by the California Native Plant Society (CNPS 2001), CDFW (2018, 2000), and USFWS (2000). All plant species observed were identified in the field or collected for later identification or confirmation. All species were recorded in field notes and the locations of special status plants or other resources were documented with a GPS unit and mapped on USGS topographic maps. Plants of uncertain identity were collected and subsequently identified from keys, descriptions, and illustrations in Abrams (1923, 1944, and 1951), Abrams and Ferris (1960), Munz (1974), and Parker (1999).

There is no U.S. Fish and Wildlife Service (USFWS) or California Department of Fish and Wildlife (CDFW) survey protocol for yellow-legged frog. Therefore, the habitat assessment for southern mountain yellow-legged frog was conducted in accordance with survey instructions provided by the Western Riverside County Regional Conservation Authority (RCA undated). Those instructions require that the entire project area be searched on foot for suitable habitat. Suitable habitat is defined as creeks or rivers that support water throughout the year (portions of the creek system may only support pooled water for portions of the year). Intermittent creeks are not considered to be suitable habitat. Because the species is very susceptible to predation by non-native fish, improved lakes and artificial ponds that support non-native predatory fishes (excluding mosquitofish) are not considered to be suitable.

### 2.3) Tree Survey

A survey of trees on the site was conducted by Leslie Irish on September 18 and 21, 2020. All trees with a trunk diameter (or sum of the diameter of multiple trunks) of two (2) inches or more at a height of 4.5 feet from the ground were identified, mapped, and measured and general tree health was assessed. The health assessment used the scale shown in Table 2.

The survey included oak trees (plants of the genus *Quercus*), as required by Riverside County (Riverside County 1993). The dripline of oaks was also mapped, as well as the “protected zone.” Under County guidelines, the protected zone is either the actual tree dripline, an area with a radius equal to the tree height, or 10 feet, whichever is larger. Dead oak trees (which are useful for bird nesting and foraging) do not have a protected zone unless it is obvious the tree was killed due to human activity. The location of oaks and their protected zones was compared to development plans (Site Plan Concept dated May 13, 2019) to determine potential impacts.

**Table 2. Tree Health Rating Scale**

Rating	Criteria
5	Tree in excellent health with abundant foliage, new leaf growth, and shoot elongation; no signs of herbivory, insect infestation, disease, fungus growth, or limb/trunk damage.
4	Tree in very good health with ample green foliage and new leaf growth; minor signs of drought stress, herbivory, insect infestation, decreased shoot growth, or loss of vigor.
3	Tree in moderate health with limited or uneven new leaf growth; moderate signs of drought stress; noticeable insect activity; decay on branches; noticeable herbivory damage.
2	Tree in poor health with existing leaves yellowing; limited/stunted new leaf growth; decreased shoot growth from previous year; dark-colored cracks or abnormalities on trunk; presence of fungus; observable decay on trunk or major limbs; sap bleeding from trunk; significant insect infestation; extensive herbivory; thinning canopy.
1	Tree in obvious decline with existing leaves yellowing and no new leaf growth; extensive limb or trunk damage; large cracks or other decay on trunk; bleeding sap; dieback of more than 30% of the canopy; a general lack of vigor.
0	Tree dead or apparently dead.

### **3.0) RESULTS**

#### **3.1) Literature Review Results**

The site is within area covered by the MSHCP, but it is not located within the MSHCP Criteria Area. The community of Idyllwild is surrounded by public lands (San Bernardino National Forest and Mount San Jacinto State Park). The RCA MSHCP Information Map shows no conservation lands adjacent to (within 200 feet of) the site (RCA 2021). However, the California Protected Areas Database shows a portion of Mount San Jacinto State Park immediately to the west of the site across Highway 243 (CPAD 2021).

There are no MSHCP conserved lands within a mile of the site. Public/quasi-public (PQP) conserved lands within one mile of the site include Idyllwild County Park (about 0.3 mile west of the site), Mount San Jacinto State Park (about 0.6 mile north of the site), and the San Bernardino National Forest (about 0.9 mile southeast of the site) (RCA 2021).

Surveys required by the MSHCP are a habitat assessment to address riparian/riverine and vernal pool habitats and associated species, mountain yellow-legged frog, and narrow endemic plant species. The narrow endemic plant species are Johnston's rockcress, Munz's (San Jacinto) mariposa lily, and San Jacinto Mountains bedstraw. Narrow endemic plants with potential habitat present onsite require focused surveys to determine presence or absence. Other special status species have been documented in the area and are listed along with their potential for occurrence in Appendix B.

##### **3.1.1) Precipitation Data**

Precipitation data was obtained from the Keenwild Remote Automated Weather Station (RAWS). The Keenwild RAWS is located approximately 6.5 miles southwest of the Project site at an elevation of 4,920 feet (WRCC 2021).

Table 2 provides the precipitation data from the Keenwild Remote Automated Weather Station (RAWS) starting with the year preceding the beginning of the survey through June 2021. The total precipitation recorded by this RAWS for the 2019 water year (October 2018 through September 2019) is 31.72 inches and for the 2020 water year is 22.58 inches (WRCC 2021). Average annual precipitation for this area is about 20 to 25 inches (WRCC 2018).

**Table 3. Precipitation Data (Keenwild RAWS)**

2019 Water Year	Precipitation (inches)	2020 Water Year	Precipitation (inches)	2021 Water Year	Precipitation (inches)
10.2018	0.87	10.2019	0	10.2020	0.12
11.2018	2.44	11.2019	2.77	11.2020	1.85
12.2018	2.16	12.2019	4.31	12.2020	1.12
01.2019	5.02	01.2020	1.07	01.2021	2.21
02.2019	14.32	02.2020	1.21	02.2021	0.34
03.2019	2.94	03.2020	7.07	03.2021	2.66
04.2019	0.52	04.2020	4.38	04.2021	0.69
05.2019	2.93	05.2020	0.07	05.2021	0.03
06.2019	0	06.2020	0.07	06.2021	0.01*
07.2019	0.03	07.2020	0	--	--
08.2019	0	08.2020	1.63	--	--
09.2019	0.49	09.2020	0	--	--
Total for 2019 Water Year	31.72	Total for 2020 Water Year	22.58	Total through June 2021	9.03*

\*as of June 28.

### 3.2) Vegetation Communities

#### 3.2.1) Disturbed/Developed

Parcel 028 is mostly developed or disturbed in association with its past and current use as lodging or residential units. Three (3) separate structures and a small storage shed are present, and portions of the site are paved in association with a driveway and parking area. Undeveloped areas are present along the western site edge (adjacent to Highway 243) and behind the main structures on either side of the paved driveway that leads to Oakwood Street to the east. These areas have a mix of native and non-native or ornamental plants. A narrow strip below the paved parking lot and adjacent to Highway 243 is the least disturbed of these undeveloped areas. Open areas behind (east of) the apartment structures on either side of the driveway are unpaved and sparsely inhabited with various (mostly) low-growing annuals. These undeveloped areas appear to be regularly impacted by weed abatement and vehicle parking and storage. The February 2021 survey found that native understory plants previously present on Parcel 028 had been mowed or removed as part of regular maintenance.

Much of Parcel 031 is disturbed by a driveway and vehicle parking and storage. Several large trees are present. The understory appears to have been cleared in the past and there are no perennial shrubs. The February 2021 survey found that native understory plants previously present on Parcel 031 had been mowed or removed as part of regular maintenance.

### 3.2.2) Jeffrey Pine Forest

Jeffrey pines (*Pinus jeffreyi*) are the most common trees onsite. Other trees observed include canyon live oak (*Quercus chrysolepis*), California black oak (*Quercus kelloggii*), incense cedar (*Calocedrus decurrens*), and white fir (*Abies concolor*). Perennial shrubs observed include manzanita (*Arctostaphylos* species), California coffeeberry (*Frangula californica* ssp. *californica*), and southern honeysuckle (*Lonicera subspicata* var. *denudata*). Native understory plants observed on the less disturbed portions of site include (but are not limited to) Wright's buckwheat (*Eriogonum wrightii* var. *membranaceum*), slender buckwheat (*Eriogonum gracile*), California yarrow (*Achillea millefolium*), silver-leaved lotus (*Acmispon argophyllus*), leafy fleabane (*Erigeron foliosus*), sapphire woollystar (*Eriastrum sapphirinum*), sticky lessingia (*Lessingia glandulifera* var. *glandulifera*), cotton batting (*Pseudognaphalium stramenium*), and Parish's milkvetch (*Astragalus douglasii* var. *parishii*).

Non-native and ornamental plants observed onsite include common dandelion (*Taraxacum officinale*), cheatgrass (*Bromus tectorum*), ornamental perennial sweet pea (*Lathyrus latifolius*), ornamental plum (*Prunus* species), silver maple (*Acer saccharinum*), shortpod mustard (*Hirschfeldia incana*), and greater periwinkle (*Vinca major*).

This vegetation community is classified by Sawyer et al. (2009) as Jeffrey pine forest (*Pinus jeffreyi* Forest Alliance). CDFW ranks this community as S4 (apparently secure) and it is not considered sensitive (CDFW 2020).



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**Figure 5**  
**Vegetation Map**  
(Aerial obtained from Google Earth, August 2018)  
APNS 563-250-017, -028, & -031, Idyllwild  
County of Riverside, California

### 3.3) Plant Species

A total of 40 plant species were observed and identified during the survey. A list of observed plant species is included in Appendix A. No federal or state-listed or special status plants were observed. The site is not within designated critical habitat for any federally listed plant species.

#### 3.3.1) Narrow Endemic Plants

The MSHCP requires a habitat assessment narrow endemic plant species and a focused survey if habitat is present. The narrow endemic plant species are Johnston's rockcress, Munz's (San Jacinto) mariposa lily, and San Jacinto Mountains bedstraw.

##### Johnston's Rockcress

Johnston's rockcress (*Boechea [Arabis] johnstonii*) is a perennial herb in the Brassicaceae (mustard) family that flowers from February to June. It is found in chaparral, grassland, and open oak/pine woodland from about 4,430 to 7,055 feet elevation. It often occurs on eroded clay soils. Johnston's rockcress has a California Rare Plant Rank (CRPR) of 1B.2, indicating that it is rare, threatened, or endangered in California and elsewhere and moderately threatened in California. It is also a USFS sensitive species. It is a covered species under the MSHCP and surveys are required in the MSHCP Narrow Endemic Plant Survey area. Under the MSHCP, mitigation is required if the species is present. This species is found only in the San Jacinto Mountains in Riverside County (CDFW 2021c, CNPS 2021, Jepson 2021, Dudek 2003).

There is one (1) documented occurrence of Johnston's rockcress in the CNDDDB within five (5) miles of the Project site. This is CNDDDB Element Occurrence (EO) #9 and was last observed in 1937. It is mapped along the west slope of San Jacinto Peak about 3.3 miles north of the Project site (CDFW 2021c).

Four reference sites for Johnston's rockcress (CNDDDB EO#2, #5, #11, and #13) in the San Bernardino National Forest. The plant was not found at EO#2 or #11. EO#2 is 10.9 miles southeast of the site at an elevation of 4,560 feet and EO#11 is 12.2 miles southeast of the site at an elevation of 4,595 feet. The species was last documented at EO#2 in 1982 and at EO#11 in 1922, 1937, and 1982. A 2008 report from the U.S. Forest Service lists these occurrences as unconfirmed (CDFW 2021c).

The surveys found Johnston's rockcress at EO#5 and #13 on April 19, 2021. EO#5 is about 8.9 miles southeast of the site at an elevation of 4,480 feet and EO#13 is 9.3 miles southeast of the



site at an elevation of 4,500 feet. Photos are included in Appendix C. The plant was flowering and identifiable at this time.

No Johnston's rockcress was observed on the site during surveys conducted during the flowering season. The site is over 8.7 miles northwest of the Garner Valley area where all recent occurrences of the species have been documented. Past and ongoing anthropogenic disturbances greatly reduce the likelihood that rare plants will occur.

Based on habitat and soils present, proximity of known occurrences, disturbances associated with current and past land use, and negative survey results, Johnston's rockcress is considered absent from the site.

### Munz's Mariposa Lily

Munz's (San Jacinto) mariposa lily (*Calochortus palmeri* var. *munzii*) is a perennial bulb-forming herb in the Liliaceae (lily) family that flowers from April through July. It is found in chaparral, meadows and seeps, and lower montane coniferous forest (open yellow pine forest) from about 2,805 to 7,220 feet elevation. It occurs on seasonally moist, fine granitic loam on exposed knolls in the shade of yellow pine forest and on moist, sandy clay in chaparral and meadows. This species has a CRPR of 1B.2, indicating that it is rare, threatened, or endangered in California and elsewhere and moderately threatened in California. It is also a USFS sensitive species. It is a covered species under the MSHCP and surveys are required in the MSHCP Narrow Endemic Plant Survey area. Under the MSHCP, mitigation is required if the species is present. This species is found only in the San Jacinto and Santa Rosa Mountains of Riverside County and scattered locations in San Diego County (CDFW 2021c, CNPS 2021, Jepson 2021, Dudek 2003).

There are 12 documented occurrences of Munz's mariposa lily within five (5) miles of the Project site, including one (1) occurrence (EO#1) that is mapped immediately to the east on a formerly vacant lot. The exact location of this occurrence is unknown and the mapped buffer includes a portion of Parcel 031. The species was last observed at this location in 1967. However, more recent surveys indicate that this occurrence has been extirpated due to development. The remaining occurrences are all over two (2) miles from the Project site (CDFW 2021c).

Two reference sites for Munz's mariposa lily (CNDDDB EO#2 and #51) in the San Bernardino National Forest were visited during this study. These sites were visited on June 29, July 7, July 19, July 24, 2020, and June 21, 2021. The plant was flowering and identifiable on June 29 and

July 7, 2020 and on June 21, 2021. These occurrences are about 2.3 to 2.6 miles west-southwest of the site at an elevation of 4,850 to 4,985 feet. Photos are included in Appendix C.

There is potentially suitable habitat for Munz's mariposa lily on the site and a documented occurrence is located in the immediate vicinity. No Munz's mariposa lily was observed during surveys. The survey was conducted within the flowering season for this species and it was observed flowering at a nearby reference site. Past and ongoing anthropogenic disturbances on most of the site reduce the likelihood that rare plants will occur. Based on survey results and other available evidence, Munz's mariposa lily is considered absent from the project site.

### San Jacinto Mountains Bedstraw

San Jacinto Mountains bedstraw (*Galium angustifolium* ssp. *jacinticum*) is a perennial herb in the Rubiaceae (madder) family that flowers from June through August. It is found in partially shady or open lower montane mixed and coniferous forest from about 4,430 to 6,890 feet elevation. This species has a CRPR of 1B.3, indicating that it is rare, threatened, or endangered in California and elsewhere and not very threatened in California. It is also a USFS sensitive species. It is a covered species under the MSHCP and surveys are required in the MSHCP Narrow Endemic Plant Survey area. Under the MSHCP, mitigation is required if the species is present. This species is found only in the San Jacinto and Santa Rosa Mountains of Riverside County and Laguna and Volcan Mountains of San Diego County (CDFW 2021c, CNPS 2021, Jepson 2021, Dudek 2003).

There are ten (10) documented occurrences of San Jacinto Mountains bedstraw within five (5) miles of the Project site; the closest is about 2.4 miles to the west (CDFW 2021c).

One reference site for San Jacinto Mountains bedstraw (CNDDDB EO#13) in the San Bernardino National Forest was visited during June, July, and August 2020, and May and June 2021. The plant was flowering and identifiable during those visits. This occurrence is about 3.4 miles southwest of the site at an elevation of 4,300 feet. Photos are included in Appendix C.

There is potentially suitable habitat for San Jacinto Mountains bedstraw on the site, but it was not observed during surveys. The survey was conducted within the flowering season for this species and it was observed flowering at a reference site. Past and ongoing anthropogenic disturbances greatly reduce the likelihood that rare plants will occur. Based on survey results and other available evidence, San Jacinto Mountains bedstraw is considered absent from the project site.

### 3.3.2) Special Status Plants

No special status plants were observed on the site during the surveys. There is existing development and/or disturbance on much of the site and undisturbed natural habitat capable of supporting special status plants is generally lacking. Special status plants known from the region have a low potential for occurrence or are not expected to occur. See Appendix B for the complete list.

### 3.3.3) Oaks and Other Trees

Canyon live oak and California black oak trees are present onsite as well as other native trees. Riverside County regulates oaks and mitigation may be required if oaks will be impacted. A permit from the County may be required for removal of native trees and treatment of stumps and slash may also be required.

If native oaks will be impacted or construction activities will occur within the protected zone of any oak (see Section 5.10), the Riverside County Oak Tree Management Guidelines require mapping and evaluation of oak trees with a trunk (or sum of multiple trunks) at least two (2) inches in diameter at 4.5 feet above the ground (DBH<sup>1</sup>) within project areas. The evaluation must include dead or dying oak trees, as these have value for cavity nesting birds. Project development plans are required to minimize and mitigate impacts to oak trees. Figure 6 identifies the location of oaks and other trees present on the site and Table 4 provides tree survey data. The inventory included Parcel 017, which has since been removed from the Project. Trees on Parcel 017 have been removed from Table 4 and, as a result, tree numbers may be discontinuous.

L&L catalogued 47 trees within the boundaries of the two parcels, of which two (2) are oaks. This includes one (1) black oak (*Quercus kelloggii*) and one (1) canyon live oak (*Quercus chrysolepis*). Other trees present included 38 pine trees (Jeffrey pine or Coulter pine), one (1) Pacific madrone (*Arbutus menziesii*), five (5) incense cedars (*Calocedrus decurrens*), and one (1) silver maple (*Acer saccharinum*; a non-native ornamental). All oaks on the site are in very good or excellent health and no dead oaks are present (Table 4).

There is one black oak on Parcel 031 and one canyon live oak on Parcel 028. Figure 6 shows the oak trees and their protected zones (see Section 5.10 for the definition of a protected zone).

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<sup>1</sup> DBH is a forestry term meaning “diameter breast height.” It is the diameter of the trunk, or the sum of the diameters of multiple trunks at 4.5 feet above ground level on the uphill side of the tree.

Based on a review of the oak locations and the Site Plan Concept (dated May 13, 2019), the one black oak on Parcel 031 (Tree #3) and the one canyon live oak on Parcel 028 (Tree #34) will be impacted, as will a portion of the protected zone of three (3) offsite black oaks. Depending on the final development plan and the extent of construction-related disturbance, additional oaks may also be impacted. Per communication from the Project proponent, the following trees are planned for removal: pines #1, 2, 4, 5, and 6; black oak #3; and canyon live oak #34. Other impacted trees will be mitigated in place.

Table 4. Tree Data

Tree #	Coordinates	Type	Height (feet)	Health Rating*	DBH (inches)
1	33.749375° -116.712304°	Pine	35	5	14
2	33.749433° -116.712305°	Pine	25	5	7
3	33.749568° -116.712461°	Black Oak	45	5	24
4	33.749386° -116.712669°	Pine	30	5	30
5	33.749434° -116.712534°	Pine	20	5	12
6	33.749283° -116.712504°	Pine	45	5	24
7	33.748843° -116.713751°	Pine	55	5	24
8	33.748799° -116.713727°	Pine	50	4	14
9	33.748741° -116.713703°	Pine	55	5	18
10	33.748704° -116.713592°	Pine	55	5	18
11	33.748801° -116.713854°	Pine	65	5	28
12	33.748664° -116.713867°	Silver Maple	40	5	8
13	33.748623° -116.713780°	Pine	55	5	18
14	33.748579° -116.713782°	Pine	55	5	14
15	33.748547° -116.713751°	Pine	40	5	12
16	33.749105° -116.713996°	Pine	35	5	10
17	33.749048° -116.713872°	Pine	20	5	10
18	33.749077° -116.713892°	Pine	15	5	4
19	33.749048° -116.713872°	Pine	25	5	6
20	33.749034° -116.713856°	Pacific Madrone	20	5	6
21	33.748827° -116.713565°	Pine	35	5	12
22	33.748782° -116.713547°	Pine	50	5	18
23	33.748777° -116.713472°	Cedar	30	5	10
24	33.748811° -116.713424°	Pine	50	5	20
25	33.749000° -116.713785°	Pine	30	4	14
26	33.749064° -116.713733°	Pine	20	5	5
27	33.749049° -116.713675°	Pine	30	5	12
28	33.749095° -116.713603°	Pine	30	4	14
29	33.749132° -116.713557°	Pine	30	3	16
30	33.749036° -116.713494°	Pine	30	4	14
31	33.748999° -116.713476°	Pine	35	4	20

Tree #	Coordinates	Type	Height (feet)	Health Rating*	DBH (inches)
32	33.749250° -116.713463°	Pine	65	5	22
33	33.749282° -116.713348°	Pine	60	4	24
34	33.749333° -116.713250°	Canyon Live Oak	30	5	24
35	33.749370° -116.712974°	Pine	20	5	10
36	33.749102° -116.712950°	Pine	30	5	20
37	33.749064° -116.713089°	Pine	55	5	19
38	33.749169° -116.713126°	Pine	55	5	20
39	33.748840° -116.713269°	Cedar	20	5	4
40	33.748903° -116.713294°	Pine	45	5	20
41	33.748934° -116.713308°	Cedar	12	5	3
42	33.748976° -116.713332°	Cedar	30	5	12
43	33.749028° -116.713341°	Cedar	30	5	11
44	33.749064° -116.713362°	Pine	28	5	8
45	33.749125° -116.713382°	Pine	20	5	5
47	33.749129° -116.713816°	Pine	50	5	20
48	33.749166° -116.713730°	Pine	50	5	19

\*Health rated on a scale of 0 (dead), 1 (declining), 2 (poor), 3 (moderate), 4 (very good), and 5 (excellent); see Table 2.



Figure 6. Trees Mapped on the Site. The dripline (irregular outline) and the protected zone (circle) are shown for oaks.

### 3.4) Wildlife Species

A total of 18 wildlife species (mostly birds) plus domestic cat were detected during the survey. No federal or state-listed endangered or threatened species were observed. One special status species, Nuttall's woodpecker (*Dryobates nuttalli*), was observed and is described below. Cooper's hawk (*Accipiter cooperii*; CDFW Watch List species, MSHCP Covered Species Adequately Conserved) and oak titmouse (*Baeolophus inornatus*; USFWS Bird of Conservation Concern, CDFW Special Animal) were observed during surveys of the adjacent parcel (APN 563-250-017). A list of all observed species is included in Appendix A.

MSHCP species listed for protection associated with riparian/riverine areas and vernal pools were not observed and are considered absent. The site is not within designated critical habitat for any federally listed wildlife species.

#### 3.4.1) Fairy Shrimp

Soil types mapped onsite are not consistent with an alkali playa or vernal pool complex (Bauder et al. 2011). Pools or depressions characteristic of vernal pool habitat were not observed onsite.

The Riverside fairy shrimp (*Streptocephalus woottoni*) is restricted to deep seasonal vernal pools, vernal pool like ephemeral ponds, and stock ponds and other human modified depressions. All known habitat lies within annual grasslands, which may be interspersed through chaparral or coastal sage scrub vegetation. All known populations lie between 30 and 415 meters (about 100 to 1,360 feet) in elevation (Dudek 2003). The elevation onsite (5,462 to 5,523 feet) is well above the range for Riverside fairy shrimp.

In southern California, the vernal pool fairy shrimp (*Branchinecta lynchi*) is known only from western Riverside County up to an elevation of 1,159 meters (3,800 feet) (Dudek 2003). The elevation onsite is well above the range for vernal pool fairy shrimp.

The MSHCP requires focused surveys if suitable habitat for fairy shrimp is present. No vernal pools or ponding areas are present and the site is well above the elevation range for listed fairy shrimp species. Therefore, there is no suitable habitat for listed fairy shrimp species and they are considered absent.



### 3.4.2) Riparian Birds

Least Bell's vireo (*Vireo bellii pusillus*) is state and federally listed as endangered. It is a covered species under the MSHCP and considered adequately conserved, but surveys are required in suitable habitat as described in MSHCP Section 6.1.2. This species is migratory and breeds in California, arriving in March and departing by September or October. Males establish and defend territories in riparian woodlands and riparian scrub. Dense shrub cover is required for nesting. The riparian habitat utilized by this species is limited to the immediate vicinity of water courses below 1,500 feet elevation (Dudek 2003). There is no riparian habitat on the site and the elevation (5,462 to 5,523 feet) is well above the range for least Bell's vireo. Therefore, there is no suitable habitat for least Bell's vireo and this species is considered absent from the site.

Southwestern willow flycatcher (*Empidonax traillii extimus*) is state and federally listed as endangered. It is a covered species under the MSHCP and considered adequately conserved, but surveys are required in suitable habitat as described in MSHCP Section 6.1.2. This species inhabits dense riparian forests with ample numbers of willows and other associated trees and shrubs at elevations from sea level to 8,500 feet (Dudek 2003). There is no riparian habitat on the site. Therefore, there is no suitable habitat for southwestern willow flycatcher and this species is considered absent from the site.

Western yellow-billed cuckoo (*Coccyzus americanus occidentalis*) is federally listed as threatened and state listed as endangered. It is a covered species under the MSHCP and considered adequately conserved, but surveys are required in suitable habitat as described in MSHCP Section 6.1.2. This species inhabits extensive riparian thickets or forests with dense, low-level or understory foliage and abutting on slow-moving watercourses, backwaters, or seeps (Dudek 2003). There is no riparian habitat on the site. Therefore, there is no suitable habitat for western yellow-billed cuckoo and this species is considered absent from the site.

### 3.4.3) Mountain Yellow-legged Frog

Southern mountain yellow-legged frog (*Rana muscosa*) is a medium-sized amphibian in the Ranidae (true frog) family. It is a federal and state listed endangered species and a California Department of Fish and Wildlife (CDFW) Watch List species (CDFW 2021b). It is also a U.S. Forest Service (USFS) sensitive species. Mountain yellow-legged frog has recently been split into the Sierra Nevada yellow-legged frog (*Rana sierra*, found in the northern and central Sierra

Nevada) and the southern mountain yellow-legged frog (*Rana muscosa*, found in the southern Sierra Nevada and southern California).

Southern mountain yellow-legged frog is always found within a few feet of water. In the mountains of southern California, this species inhabits streams, creeks, and small pools with cool, perennial water. Tadpoles are generally restricted to permanent still water deeper than a meter (3.3 feet) and may require two (2) to four (4) years to complete their development. The current distribution of the species consists of 10 small populations scattered across the San Jacinto, San Bernardino, and San Gabriel Mountains (Dudek 2003, USFWS 2019).

Historically, southern mountain yellow-legged frog was distributed along Strawberry Creek, but the last documented observation in 1953. None have been found during more recent surveys in 2001, 2002, and 2005 (Dudek 2003, CDFW 2021c, RCA 2006).

There are ten (10) documented occurrences of this mountain yellow-legged within five (5) miles of the Project site, primarily along Strawberry Creek, which runs to the east and south of the site. At its closest point, Strawberry Creek is about 0.4 mile from the Project site and the mapped occurrence of mountain yellow-legged frog, which may be extirpated, includes a buffer that extends from the creek and is about a quarter mile from the Project site. No perennial aquatic habitat was identified on or adjacent to the Project site. Mountain yellow-legged frog is always found within a few feet of water and the site is not located in an area where this species could be dispersing from one stream or reach to another. Therefore, mountain yellow-legged frog is considered absent from the Project site.

#### 3.4.4) Nesting Birds

There is suitable habitat for nesting birds onsite. Nesting birds may utilize trees and other vegetation, structures, idle vehicles/equipment, and open ground onsite for nesting. However, given the level of ongoing disturbance and nearby developments, nesting is likely to be limited to more common species tolerant of human presence.

Several large trees are present throughout the parcels and surrounding areas and may provide potential raptor nesting sites. However, no potential raptor nests were observed in any of the onsite trees during surveys.

### 3.4.5) Other Special Status Wildlife

One (1) special status wildlife species was observed during the survey, Nuttall's woodpecker. Nuttall's woodpecker is a USFWS Bird of Conservation Concern. It is not covered by the MSHCP.

Nuttall's woodpecker is not tracked in the CNDDDB. Review of eBird observations (eBird 2021) indicate that this species is frequently seen in the area, including the immediate vicinity of the site.

No other special status wildlife species were detected during the survey. Although pine forest habitat is present on portions of the site, paved roads and various residential and commercial developments on and surrounding the property limit the potential for most special status wildlife species to occupy the site.

Other special status biological resources documented in the vicinity of the Project site include, but are not limited to, San Bernardino flying squirrel, southern rubber boa, California spotted owl, and mountain lion, described below. Most special status wildlife known from the region have a low potential for occurrence or are not expected to occur. A few were determined to have a moderate or high potential to occur (see Appendix B).

#### San Bernardino Flying Squirrel

San Bernardino flying squirrel (*Glaucomys oregonensis californicus*) is a CDFW Species of Special Concern and a USFS Sensitive Species. It is a covered species under the MSHCP but is not considered adequately conserved.

This species is a medium-sized squirrel with a furred patagium (membrane) connecting the front and hind limbs, which it uses to glide from tree to tree. It is nocturnal and secretive. Historically, San Bernardino flying squirrel was found in the San Bernardino and San Jacinto Mountains. However, populations in the San Jacinto Mountains may have been extirpated. Habitat for the San Bernardino flying squirrel is mixed-conifer forests dominated by Jeffrey pine, white fir, and black oak between about 3,900 to 8,200 feet. The San Bernardino flying squirrel is typically found in old growth and some second-growth forests, and uses stumps, snags, and dead trees for nesting and foraging (Brylski 1998).

There is one (1) documented occurrence of San Bernardino flying squirrel mapped in proximity to the Project site, but this observation is from 1919 and there are no more recent observations at this location or any other CNDDDB occurrences in the San Jacinto Mountains (CDFW 2021c).

There is potentially suitable habitat for San Bernardino flying squirrel, but it has low potential for occurrence due to human disturbance associated with existing development, lack of any documented occurrences in the area during the past century, and CDFW information indicating that this species may be extirpated in the San Jacinto Mountains (CDFW 2021c).

### Southern Rubber Boa

Southern rubber boa (*Charina umbratica*) is a state listed threatened and USFS Sensitive species. It is a covered species under the MSHCP but is not considered adequately conserved.

It is restricted to the San Bernardino and San Jacinto Mountains at elevations from about 5,050 to 8,100 feet. The species is semi-fossorial (burrowing), primarily crepuscular (active at dawn and dusk) or nocturnal, and highly secretive. It does not lay eggs but gives birth to live young. Suitable habitat is mixed conifer-oak forest or woodland dominated by two (2) or more of the following tree species: Jeffrey pine, ponderosa pine, sugar pine, incense cedar, white fir, or black oak. Southern rubber boa has also been observed in rock outcrops within open areas of mixed grasses and bracken fern with some shrubs and small trees. Rock outcrops and surface debris (rocks, logs, litter, etc.) provide cover and rock outcrops appear to be important for hibernacula. Presence of water appears to be critical, as southern rubber boa is frequently observed in association with damp draws near springs, seeps, and streams during the summer months. Southern rubber boa tends to have a clumped distribution, with areas of apparently unoccupied but suitable habitat intervening between known populations. The current abundance of southern rubber boa is unknown (CDFG 1987, Stewart et al. 2005).

To protect the species from unlawful harvesting, the exact locations of southern rubber boa observations are not available in the CNDDDB. There are multiple observations within the San Jacinto Peak topographic quadrangle (topo quad), located immediately north of the Project site, but no observations within the Idyllwild topographic quadrangle (CDFW 2021c).

The site has ongoing human disturbance, lack of rock outcrops and woody debris, and no natural water. The site is within about 0.4 mile of Strawberry Creek. Based on available information, potential for occurrence of southern rubber boa is low.

## California Spotted Owl

California spotted owl (*Strix occidentalis occidentalis*) is a CDFW Species of Special Concern, a USFS Sensitive species, and a USFWS Bird of Conservation Concern. It is a covered species under the MSHCP but is not considered adequately conserved.

It is nocturnal and a year-round resident, breeding from mid-February to mid-September or early October. It nests in tree cavities. In southern California, the California spotted owl is found mainly in hardwood and mixed conifer hardwood forests at mid to high elevations and oak and riparian woodlands at lower elevations. Breeding and roosting habitat consists of forests and woodlands with large old trees and snags, dense canopies, multiple canopy layers, and downed woody debris. Foraging habitat is similar to breeding and roosting habitat, with moderate to high canopy cover (at least 40 percent). Edge habitat, particularly fire-created edges, may also be used for foraging. Downed woody debris is associated with underground fungi, which are an important food for spotted owl prey species. Prey is typically small to medium-sized rodents, often flying squirrel or woodrat (Davis and Gould 2008; USFS 2018).

There are multiple spotted owl territories mapped within five (5) miles of the Project site, and the closest observation is about 0.85 mile to the east. The nearest activity center is documented about 1.14 miles to the north-northeast and has a pair of owls. The nearest documented nest is approximately 1.88 miles to the northeast (CDFW 2021c).

There are documented territories of California spotted owl within five (5) miles of the Project site. However, California spotted owls utilize densely canopied forest stands with large and old trees for nesting and roosting and mature forests with moderate to high canopy cover for foraging (USFS 2018). While there are some larger trees onsite, the canopy is open and there is ongoing human disturbance associated with existing development on and adjacent to the site. Based on this information, there is low potential for spotted owl to forage onsite and nesting onsite is not expected.

## Mountain Lion

The mountain lion (*Puma concolor*) is a candidate for state listing as threatened or endangered. Under the California Endangered Species Act, candidate species receive the same consideration and protection as listed species. It is a covered species under the MSHCP and considered adequately conserved.

The mountain lion is a large native cat that is found throughout California. It is primarily crepuscular (active at dawn and dusk) or nocturnal. This species has large home ranges that include various habitats such as pine forest, riparian and oak woodlands, chaparral, and grasslands. Natal dens are often in rocky outcrops or dense vegetation (CDFW 2014).

Mountain lions are not tracked in the CNDDDB, so there are no documented occurrences in that database. There are news reports of mountain lion sightings in the Idyllwild area, including photos from motion-activated cameras and reports of pets being killed (Press-Enterprise, May 30, 2016; Idyllwild Town Crier, November 8, 2016; Patch, January 27, 2020; Los Angeles Times, October 8, 2020).

Mountain lion habitat exists throughout the forest surrounding the town of Idyllwild and mountain lions could move through and potentially forage on the Project site. Given the existing development on and adjacent to the site, there is no suitable habitat for a natal den.

#### 3.4.6) Wildlife Corridor

Wildlife corridors link together areas of suitable wildlife habitat that are otherwise separated by rugged terrain, changes in vegetation, or human disturbance. The fragmentation of open space areas by urbanization creates isolated “islands” of wildlife habitat. In the absence of habitat linkages that allow movement to adjoining open space areas, various studies have concluded that some wildlife species, especially larger and more mobile mammals, will not likely persist over time in fragmented or isolated habitat areas because movement barriers prohibit the infusion of new individuals and genetic information.

Wildlife movement activities usually fall into one (1) of three (3) movement categories: dispersal (e.g., juvenile animals dispersing from natal areas or individuals extending their range), seasonal migration, and movements related to home range activities (e.g., foraging for food or water, defending territories, or searching for mates, breeding areas, or cover).

The Project site is located in the community of Idyllwild within the San Bernardino National Forest. Wildlife habitat exists throughout the forest surrounding the town. Forest species such as raccoons, coyotes, birds, etc. likely move and forage throughout the Project vicinity, but it is not within a wildlife corridor.

### 3.5) MSHCP Riparian/Riverine and Vernal Pool Habitat

Under MSHCP Volume 1, Section 6.1.2, areas associated with wetland and streambed systems must be evaluated for consideration as riparian/riverine or vernal pool habitat. Riparian/riverine areas are defined within the MSHCP as:

“. . . lands which contain Habitat dominated by trees, shrubs, persistent emergents, or emergent mosses and lichens, which occur close to or which depend upon soil moisture from a nearby fresh water source; or areas with fresh water flow during all or a portion of the year.”

Vernal pools are defined within the MSHCP as:

“. . . seasonal wetlands that occur in depression areas that have wetlands indicators of all three parameters (soils, vegetation and hydrology) during the wetter portion of the growing season but normally lack wetlands indicators of hydrology and/or vegetation during the drier portion of the growing season. Obligate hydrophytes and facultative wetlands plant species are normally dominant during the wetter portion of the growing season, while upland species (annuals) may be dominant during the drier portion of the growing season. . . .”

The MSHCP also states:

“With the exception of wetlands created for the purpose of providing wetlands Habitat or resulting from human actions to create open waters or from the alteration of natural stream courses, areas demonstrating characteristics as described above which are artificially created are not included in these definitions.”

No drainages were observed on or immediately adjacent to the site and no vernal pools or ponding areas are present.

### 3.6) Urban/Wildlands Interface Guidelines (MSHCP Section 6.1.4)

The guidelines in Section 6.1.4 of the MSHCP are intended to address indirect effects associated with development near MSHCP Conserved Areas. The proposed Project is not adjacent to any MSHCP Conservation Area on the RCA MSHCP Information Map (RCA 2021); however, a portion of Mount San Jacinto State Park is located immediately to the west of the site across Highway 243 and is assumed to be PQP lands. If this portion of Mount San Jacinto

State Park is not considered to be PQP lands by RCA, this section of the report will be withdrawn.

Developments in proximity to Conserved Areas may result in “edge effects” that might adversely affect biological resources within the Conserved Areas. To minimize such “edge effects,” the following guidelines will be implemented for this project.

**Drainage:** The proposed project should incorporate measures as required, including measures required through the National Pollutant Discharge Elimination System (NPDES) requirements, to ensure that the quantity and quality of runoff discharged from the site is not altered in an adverse way when compared with existing conditions. Stormwater systems, if required, should be designed to prevent the release of toxins, chemicals, petroleum products, exotic plant materials, or other elements that might degrade or harm biological resources or ecosystem processes within any MSHCP Conserved Area or state or federal jurisdictional areas downstream. Regular maintenance should occur to ensure effective operation of runoff control systems.

**Toxics:** Land use in proximity to MSHCP Conserved Area that uses chemicals or generates bioproducts that are potentially toxic or may adversely affect wildlife species, habitat, or water quality will incorporate measures to ensure that application of such chemicals does not result in discharge into MSHCP Conserved Area or any state or federal jurisdictional areas downstream.

**Lighting:** Exterior night lighting within the project development area should be directed downward and/or away from the PQP.

**Noise:** Noise associated with the proposed Project is not expected to result in a substantial increase over existing conditions in the area and will not have a significant effect on the PQP.

**Invasives:** When approving landscape plans for Development that is proposed adjacent to the MSHCP Conservation Area, Permittees shall consider the invasive, non-native plant species to be avoided (MSHCP Table 6-2) and shall require landscape plans (subject to the limitations of their jurisdiction) to avoid the use of invasive species for the portions of development that are adjacent to the MSHCP Conservation Area. Considerations in reviewing the applicability of this list shall include proximity of planting areas to the MSHCP Conservation Areas, species considered in the planting plans, resources being protected within the MSHCP Conservation Area and their relative sensitivity to invasion, and barriers to plant and seed dispersal, such as walls, topography and other features.



Should landscaping be included in the Project, plants listed on MSHCP Table 6-2 (see Appendix E) shall be excluded from landscape plans.

**Barriers:** Proposed land uses adjacent to the MSHCP Conservation Area shall incorporate barriers, where appropriate in individual project designs to minimize unauthorized public access, domestic animal predation, and illegal trespass or dumping in the MSHCP Conservation Area. Such barriers may include native landscaping, rocks/boulders, fencing, walls, signage, and/or other appropriate mechanisms.

Given that Highway 243 is between the Project site and the PQP, and there is existing fencing along the west side of Highway 243, the barrier requirements of Section 6.1.4 of the MSHCP do not apply.

**Grading/Land Development:** Highway 243 is between the Project site and the PQP. Therefore, this requirement does not apply.

#### **4.0) SUMMARY AND RECOMMENDATIONS**

The purpose of this study was to identify biological resources present or potentially present onsite. The MSHCP requires a habitat assessment to address riparian/riverine and vernal pool habitats and associated species, narrow endemic plants (Johnston's rockcress, San Jacinto Mountains bedstraw, and Munz's mariposa lily), and mountain yellow-legged frog. L&L also analyzed the potential for impacts to special status species and sensitive vegetation communities. The recommendations are based on the literature review, L&L's knowledge of species and habitats in the region, and the biological field survey.

There is no riparian habitat or other sensitive vegetation communities on the site.

The narrow endemic plant species Munz's mariposa lily, San Jacinto Mountains bedstraw, and Johnston's rockcress are absent from the site. Special status plants known from the region have a low potential for occurrence or are not expected to occur.

Native oak trees are present on both parcels and are regulated by Riverside County. Under current development plans, two (2) oaks will be removed and at least three (3) additional oaks will be impacted. Mitigation will be required by Riverside County and an Oak Tree Habitat Mitigation and Monitoring Plan may be required. Additional native trees will be impacted and permitting may be required, as well as treatment of stumps and slash.

No federal or state-listed endangered or threatened wildlife species were observed. One special status species, Nuttall's woodpecker was observed on the site. Cooper's hawk and oak titmouse were observed on an adjacent parcel. These species are frequently seen in the area, including the immediate vicinity of the site. No other special status wildlife species were detected. Most special status wildlife species have low potential for occurrence or are not expected to occur. Several bird species were determined to have a moderate or high potential for occurrence. Adult birds will flee from disturbance and impacts would be limited to nests, eggs, chicks, and juveniles. A clearance survey is recommended prior to the start of Project activities during the nesting season (see below).

There are no vernal pools or ponding areas on the site and it is well above the elevation range for listed fairy shrimp species. Therefore, these species are considered absent. There is no riparian habitat on the site and the elevation is also well above the range for least Bell's vireo. Riparian bird species (least Bell's vireo, southwestern willow flycatcher, and western yellow-billed cuckoo) are considered absent from the site.

There is no perennial aquatic habitat on or adjacent to the Project site and mountain yellow-legged frog is considered absent.

There is suitable habitat for nesting birds, including raptors, onsite. A nesting bird clearance survey is recommended within three (3) days prior to the start of vegetation clearing or ground disturbance within the nesting season (February 1 to September 15). If nesting birds are present, avoidance of nest sites is required and a buffer of 300 to 500 feet (or as determined by a qualified biologist) is recommended until juvenile birds are no longer dependent on the nest and/or a biologist has verified that the nest is inactive.

San Bernardino flying squirrel and southern rubber boa have a low potential for occurrence. California spotted owl has a low potential to forage on the site and is not expected to nest there. Mountain lion has a high potential to move through and possibly forage on the site.

No drainages are present on or immediately adjacent to the site. There are no vernal pools or ponding areas present.

This site is not within a wildlife corridor.



Figure 7. Site Plan.

## **5.0) REGULATORY ENVIRONMENT**

### **5.1) Federal Endangered Species Act**

Section 9 of the federal Endangered Species Act (FESA), 1973 (as amended) prohibits “take” of federally listed threatened and endangered species. Candidate species receive no protection under FESA, but the USFWS encourages conservation of these species. “Take” is defined as to harass, harm, pursue, hunt, shoot, wound, kill, trap, capture, or collect, or to attempt to engage in any such conduct. “Harm” is further defined to include habitat modification or degradation when it actually kills or injures wildlife by impairing essential behavioral patterns including breeding, feeding, or sheltering.

Incidental take is take that results from, but is not the purpose of, carrying out an otherwise lawful activity. Incidental take of federally listed species may be authorized under Section 7 of FESA for federal properties or where federal actions (i.e., federal permitting or federal funding) are involved or under Section 10 of FESA for non-federal actions.

Section 7 requires all Federal agencies, in "consultation" with the USFWS, to ensure that their actions are not likely to jeopardize the continued existence of listed species or result in destruction or adverse modification of critical habitat. The Section 7 process requires preparation of a federal Biological Assessment to determine whether a proposed major construction activity under the authority of a Federal action agency is likely to adversely affect listed species, proposed species, or designated critical habitat. After formal consultation, the USFWS will issue a Biological Opinion stating whether or not a Federal action is likely to jeopardize the continued existence of listed species or result in the destruction or adverse modification of critical habitat.

Section 10 lays out the guidelines under which a permit may be issued to authorize take of endangered or threatened species (in the absence of any federal nexus). Application for an incidental take permit under Section 10 is subject to certain requirements, including preparation by the permit applicant of a conservation plan, generally known as a "Habitat Conservation Plan" or "HCP." An HCP is a plan that outlines ways of maintaining, enhancing, and protecting a given habitat type needed to protect species. The plan usually includes measures to minimize impacts, such as provisions for permanently protecting land, restoring habitat, and relocating plants or animals to another area.

The County of Riverside has been issued a Section 10(a) permit for the Western Riverside County Multiple Species Habitat Conservation Plan (MSHCP). This project falls within the area covered by the MSHCP.

## 5.2) Jurisdictional Waters and Wetlands

Three (3) agencies generally regulate activities within streams, wetlands, and riparian areas in California: (1) the U. S. Army Corps of Engineers (USACE) regulates activities under Section 404 of the federal Clean Water Act; (2) the Regional Water Quality Control Board (RWQCB) regulates activities under Section 401 of the federal Clean Water Act and the State Porter-Cologne Water Quality Control Act; and (3) the California Department of Fish and Wildlife (CDFW) regulates activities under California Fish and Game Code Sections 1600-1616.

### 5.2.1) Federal Clean Water Act, Section 404

Section 404 of the federal Clean Water Act applies to "Waters of the United States" (WoUS). By definition these include waterways that could be used for interstate commerce and their tributaries, including any waters that flow into traditional navigable waters. In non-tidal waters, the limits of jurisdiction are "ordinary high water marks" (OHWM) such as stream banks.

There have been recent changes to the definition of USACE jurisdictional waters. The final rule published on April 21, 2020 and effective on June 22, 2020 (85 FR 22250) defined the scope of waters federally regulated under the Clean Water Act; however, litigation could affect implementation and changes may occur under the current administration. The 2020 rule defined Waters of the U.S. as:

- Territorial seas and traditional navigable waters;
- Tributaries of jurisdictional waters;
- Lakes, ponds, and impoundments that contribute surface water flow to a jurisdictional water in a typical year; and
- Wetlands adjacent to non-wetland jurisdictional waters.

Under the rule, a wetland is considered "adjacent" if it:

- Abuts (i.e., touches a side or corner of) another non-wetland jurisdictional water;
- Is inundated by flooding from another non-wetland jurisdictional water at least once in a typical year;

- Is physically separated from a non-wetland jurisdictional water by a natural berm, bank, dune, or similar natural feature without regard to whether there is a specific hydrological surface connection in a typical year; or
- Is physically separated from a non-wetland jurisdictional water by an artificial structure like a road, dike, or barrier as long as the structure allows for a direct hydrologic surface connection between the wetland and the other jurisdictional water at least once in a typical year. This connection can be through a gate or culvert or even by water overtopping a road.

Waters specifically excluded from the definition of Waters of the U.S. are:

- All waters not covered by the four categories of Waters of the U.S. listed above;
- Groundwater;
- Ephemeral features;
- Storm water runoff and overland sheet flow;
- All ditches not considered “tributaries;”
- Prior converted cropland;
- Artificially irrigated areas;
- Certain artificial lakes and ponds;
- Water-filled depressions or pits excavated in connection with mining or construction or to obtain fill, sand, or gravel;
- Certain storm water control features;
- Groundwater recharge, water reuse, and wastewater recycling structures; and
- Wastewater treatment systems.

Final determination and delineation of federal jurisdiction is made by the USACE and not by the project biologists. Therefore, fieldwork and documentation of the site conditions are done as a preliminary delineation until the USACE reviews and concurs with the results.

#### 5.2.2) Federal Clean Water Act Section 401 and Porter-Cologne

The RWQCB has jurisdiction over wetlands, WoUS, and Waters of the State under Section 401 of the CWA and the Porter-Cologne Water Quality Control Act (Porter-Cologne) under the California Water Code (§ 13000, et seq.) Permitting is required for activities that will result in a discharge of soils, nutrients, chemicals, detrital materials, or other pollutants into WoUS, Waters of the State, or adjacent wetlands that will affect the water quality of those bodies and the watershed.

### 5.2.3) California Fish and Game Code, Section 1600

The CDFW, through provisions of the California Fish and Game Code (Sections 1600-1616), is empowered to issue agreements (“Lake and Streambed Alteration Agreements”) for projects that will adversely affect wildlife habitat associated with any river, stream, or lake edges. The Lake and Streambed Alteration Agreement will typically include required measures to mitigate impacts.

Sections 1600-1616 of the California Fish and Game Code apply to stream channels, defined elsewhere in the Code as follows:

"A stream is a body of water that flows at least periodically through a bed or channel having banks and supports fish or other aquatic life. This includes watercourses having a surface or subsurface flow that supports or has supported riparian vegetation."

The state definition does not specify a flow rate or inundation frequency and provides no clear distinction between jurisdictional and non-jurisdictional lands.

While the federal USACE criteria (hydrology, soils, and vegetation) are used to evaluate the presence or absence of wetlands within the project site, the determination of state wetland status is not based on the combined presence of the three criterion because the state can take jurisdiction of any one of the three: (1) the presence of open water or saturated soils, (2) presence of vegetation including riparian or wetland species, and/or (3) water-modified or oxygen-depleted soils.

### 5.3) California Endangered Species Act

California Endangered Species Act (CESA) definitions of endangered and threatened species parallel those defined in the FESA. The CESA defines an endangered species as “. . . a native species or subspecies of a bird, mammal, fish, amphibian, reptile, or plant which is in serious danger of becoming extinct throughout all, or a significant portion, of its range due to one or more causes including loss of habitat, change in habitat, overexploitation, predation, competition or disease.” Endangered species are in serious danger of becoming extinct and threatened species are likely to become endangered species in the foreseeable future (according to Sections 2062 and 2067, respectively, of the California Fish and Game Code). Candidate species are those under formal review by the CDFW for listing as endangered or threatened (Section 2067). Prior to being considered for protected status, the CDFW designates a species as being of special concern. Species of Special Concern are wildlife species for which the



CDFW has information indicating population decline. Plant species of concern are designated by California Rare Plant Ranks, described below.

#### 5.4) California Environmental Quality Act

The California Environmental Quality Act (CEQA) and CEQA Guidelines (§ 15000 et seq.) require identification of environmental effects from discretionary projects. Significant effects are to be mitigated by avoidance, minimization, rectification, or compensation whenever possible.

Effects to all state and federal listed species are considered significant under CEQA. In addition to formally listed species, CEQA considers effects to species that are demonstrably endangered or rare as important or significant. These definitions can include state designated species of special concern, federal candidate and proposed species, California Natural Diversity Database (CNDDDB) tracked species, and California Rare Plant Rank (CRPR) 1B and 2 plants.

Appendix G of the CEQA Guidelines specifically addresses biological resources and encompasses a broad range of resources to be considered.

#### 5.5) California Natural Diversity Database

The California Natural Diversity Database (CNDDDB) includes documented occurrences of special status species that have been reported to the CDFW. It also includes ranks of overall condition of sensitive species and vegetation communities on global (throughout its range) and state (within California) levels. State ranking is numerical, ranging from one to five (S1 to S5), with S1 indicating very few remaining individuals or little remaining habitat and S5 indicating a secure population condition.

#### 5.6) California Rare Plant Rank

The California Native Plant Society (CNPS) Inventory of Rare and Endangered Species includes documented occurrences of special status plant species that are available through the Consortium of California Herbaria and other sources. The CNPS, in coordination with CDFW, has cataloged California's rare and endangered plants into lists according to population distributions and viability. These lists are numbered and indicate the following California Rare Plant Ranks (CRPR): (1A) presumed extinct in California; (1B) rare, threatened, or endangered throughout their range; (2A) presumed extirpated in California, but more common in other states; (2B) threatened or endangered in California, but more common in other states; (3) more information is needed to establish rarity; and (4) plants of limited distribution in California (i.e.,

naturally rare in the wild), but whose populations do not appear to be susceptible to threat. A CRPR may also have an extension (e.g., 1B.x) that indicates current level of threat: seriously threatened (x.1), moderately threatened (x.2), or not very threatened (x.3).

#### 5.7) Migratory Bird Treaty Act

The federal Migratory Bird Treaty Act (MBTA) of 1918 (16 USC 703-711) is an international treaty that made it unlawful to take, possess, buy, sell, purchase, or barter any migratory bird listed in 50 CFR Part 10, including feathers or other parts, nests, eggs, or products, except as allowed by implementing regulations (50 CFR 21). Executive Order 13186 ensures that environmental analyses of federal actions required by the National Environmental Policy Act (NEPA) or other established environmental review processes evaluate the effects of actions on migratory birds, with emphasis on species of concern. Disturbance that causes nest abandonment and/or loss of reproductive effort (e.g., killing or abandonment of eggs or young) or loss of habitat upon which the birds depend could be considered “take”.

On January 7, 2021, the USFWS published a final rule (86 FR 1134) codifying the 2017 Department of the Interior Solicitor’s Office Opinion M-37050 that states that the scope of the MBTA applies only to intentional injuring or killing of birds and incidental take is not prohibited. This rule took effect on March 8, 2021; however, litigation may affect implementation of this rule and changes may occur under the current administration.

#### 5.8) California Fish and Game Code, Sections 3503 and 3513

California Fish and Game Code Section 3503 prohibits take, possession, or needless destruction of bird nests or eggs except as otherwise provided by the Code; Section 3503.5 prohibits take or possession of birds of prey or their eggs except as otherwise provided by the Code; and Section 3513 provides for the adoption of the provisions of the federal Migratory Bird Treaty Act, described above.

#### 5.9) Western Riverside County Multiple Species Habitat Conservation Plan

The County of Riverside, including eight (8) additional land jurisdictions and 14 cities, have prepared a Multiple Species Habitat Conservation Plan (MSHCP) for western Riverside County. The MSHCP will build upon existing preserves and provide connectivity and wildlife corridors throughout the region. The MSHCP proposes to conserve approximately 500,000 acres and 146 different species.

The MSHCP was approved by the county on June 17, 2003 and an Implementation Agreement (IA) between the USFWS, the CDFW, and the County was executed and an associated USFWS Section 10(a)(1)(B) Permit (No. TE-088609) was issued on June 22, 2004. The permit grants take authorization for certain species identified in the permit as "Covered Species Adequately Conserved."

The MSHCP establishes seven (7) core reserve areas and associated linkages between proposed and existing core areas. The MSHCP divides areas into Cells using USGS coordinates. Conservation efforts for the project site will be evaluated with regard to sensitive species identified as not adequately conserved and observed onsite, riverine/riparian or vernal pool habitat and their associated sensitive species (if located onsite), fairy shrimp, jurisdictional areas, and sage scrub.

Focused surveys are required for species identified as not adequately conserved under the MSHCP if suitable habitat is present onsite. If focused surveys are determined necessary and species identified as not adequately conserved under the MSHCP occur onsite, the proponent may be required to undergo a Habitat Acquisition and Negotiation Strategy (HANS) determination with the County of Riverside. If a single family home or mobile home is to be placed on an existing legal lot, permitting will be reviewed according to the procedures outlined in MSHCP Section 6.1.1, *Expedited Review Process for Single-Family Homes or Mobile Homes to Be Located on an Existing Lot within the Criteria Area*.

#### MSHCP Section 6.1.2 (Riparian/Riverine Habitat)

Section 6.1.2 of the MSHCP requires an assessment of the potentially significant effects of the proposed project on Riparian/Riverine areas, and vernal pools as currently required by CEQA using available information augmented by project-specific mapping. Riparian/Riverine areas and vernal pools are defined as follows:

- Riparian/Riverine Areas are lands that have flow for all or a portion of the year and which contain habitat dominated by trees, shrubs, persistent emergents, or emergent mosses and lichens, which occur close to or which depend upon soil moisture from a nearby fresh water source; or areas with fresh water flow during all or a portion of the year.
- Vernal pools are seasonal wetlands that occur in depression areas that have wetlands indicators of all three parameters (soils, vegetation, and hydrology) during the wetter portion of the growing season but normally lack wetlands indicators of hydrology and/or vegetation during the drier portion of the growing season. Obligate hydrophytes and facultative wetlands plant species are normally dominant during the wetter portion of the growing season, while upland species (annuals) may be dominant during the drier portion of the growing season. The determination that an area exhibits vernal pool characteristics, and

the definition of the watershed supporting vernal pool hydrology, must be made on a case-by case basis. Such determinations should consider the length of the time the area exhibits upland and wetland characteristics and the manner in which the area fits into the overall ecological system as a wetland. Evidence concerning the persistence of an area's wetness can be obtained from its history, vegetation, soils, and drainage characteristics, uses, to which it has been subjected, and weather and hydrologic records.

With the exception of wetlands created for the purpose of providing wetlands habitat or resulting from human actions to create open waters or from the alteration of natural stream courses, areas demonstrating characteristics as described above which are artificially created are not included in these definitions.

#### MSHCP Section 6.1.3 (Narrow Endemic Plants)

Per Section 6.1.3 of the MSHCP, surveys are required for narrow endemic plants within the identified survey areas. If suitable habitat and appropriate soils are present, site-specific focused surveys are required. Focused surveys must be conducted during the appropriate season in accordance with established protocols. If the survey finds that narrow endemic plants are present, any projects with the potential to impact narrow endemic plants is subject to avoidance, minimization, and mitigation requirements.

Prior to conducting surveys for narrow endemic plant species, a habitat suitability assessment may be undertaken by a biologist/botanist with expertise in the plant species of concern to determine whether focused surveys for individual species are required and to focus the species-specific survey efforts. In general, habitat suitability assessments may be undertaken year-round, with the exception of vernal pool species for which habitat suitability assessments must be conducted during the rainy season.

#### 5.10) Riverside County Oak Tree Management Guidelines

The Riverside County Oak Tree Management Guidelines (Guidelines) require mapping and evaluation of oak trees with a trunk (or sum of multiple trunks) at least two (2) inches in diameter at 4.5 feet above the ground (DBH) within project areas. The evaluation must include dead or dying oak trees, as these have value for cavity nesting birds. Project development plans are required to minimize and mitigate impacts to oak trees.

Replacement of oak trees is not required by the Guidelines; however, replacement plantings may be used in addition to these guidelines when they are required by another agency or when it is determined to be biologically sound and appropriate to do so. Relocation of oak trees does not constitute mitigation under the Guidelines and is considered the same as removal.

Construction activities are not allowed within the protected zone of any oak tree except as provided for in the Guidelines. The protected zone is defined as a circle whose center is within the base of an oak tree, the radius of which is equal to an oak tree's height or 10 feet, whichever is greater. Where the outermost edge of an oak tree's dripline extends beyond this radius, that portion of the dripline shall also be included as part of that tree's protected zone. Protected zones do not apply to dead or dying oak trees, unless the tree's condition appears to be the result of human activity that indicates an intent to kill the tree.

#### 5.11) Riverside County Native Tree Ordinance

Riverside County Ordinance No. 559 states that, "No person shall remove any living native tree on any parcel or property greater than one-half acre in size, located in an area above 5,000 feet in elevation and within the unincorporated area of the County of Riverside, without first obtaining a permit to do so, unless exempted by the provisions of Section 4 of this ordinance." The ordinance also specifies methods to be used to treat stumps and slash.

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## APPENDIX A: PLANT AND WILDLIFE SPECIES

List of plant and wildlife species identified on the site during the surveys. One asterisk (\*) indicates a non-native species; two asterisks (\*\*) indicates a special status species.

### Scientific Name

### Common Name

#### VASCULAR PLANTS DICOTYLEDONS

#### Ferns

##### FILICALES

*Pteridium aquilinum* var. *pubescens*

FERN FAMILIES (SEVERAL INCLUDED TOGETHER)

Bracken fern

#### Gymnosperms

##### CUPRESSACEAE

*Calocedrus decurrens*

CYPRESS FAMILY

Incense cedar

##### PINACEAE

*Abies concolor*

*Pinus coulteri*

*Pinus jeffreyi*

PINE FAMILY

White fir

Coulter pine

Jeffrey pine

#### Angiosperms

##### APOCYNACEAE

*Asclepias eriocarpa*

\* *Vinca major*

DOGBANE FAMILY

Kotolo, Indian milkweed

Greater periwinkle, blue periwinkle

##### ASTERACEAE

*Achillea millefolium*

*Ambrosia acanthicarpa*

*Corethrogyne filaginifolia* var. *filaginifolia*  
(*Lessingia filaginifolia*)

*Erigeron foliosus*

*Lessingia glandulifera* var. *glandulifera*

*Pseudognaphalium stramenium*  
(*Gnaphalium stramenium*)

\* *Taraxacum officinale*

ASTER FAMILY

California yarrow

Annual bur-sage, annual sandbur

California-aster, sand-aster

Leafy fleabane, leafy daisy

Sticky lessingia

Cotton batting

Common dandelion

##### BORAGINACEAE

*Cryptantha simulans*

*Phacelia imbricata* var. *patula*

BORAGE OR WATERLEAF FAMILY

Pine cryptantha, popcorn flower

Imbricate phacelia

##### BRASSICACEAE

\* *Hirschfeldia incana*  
(*Brassica geniculata*)

\* *Sisymbrium altissimum*

MUSTARD FAMILY

Shortpod mustard

Tumble mustard

Scientific Name	Common Name
CAPRIFOLIACEAE	HONEYSUCKLE FAMILY
<i>Lonicera subspicata</i> var. <i>denudata</i> (L. s. var. <i>johnstonii</i> )	Southern honeysuckle
ERICACEAE	HEATH FAMILY, MANZANITA FAMILY
<i>Arbutus menziesii</i>	Pacific madrone
<i>Arctostaphylos</i> species (probably <i>glauca</i> )	Unid. manzanita
FABACEAE	LEGUME FAMILY, PEA FAMILY
<i>Acmispon argophyllus</i>	Silver-leaved lotus
<i>Astragalus douglasii</i> var. <i>parishii</i>	Parish's milkvetch
* <i>Lathyrus latifolius</i>	Ornamental perennial sweet pea
<i>Lupinus concinnus</i>	Bajada lupine
<i>Trifolium obtusiflorum</i>	Clammy cover, creek clover
FAGACEAE	OAK FAMILY
<i>Quercus chrysolepis</i>	Canyon live oak
<i>Quercus kelloggii</i>	California black oak
POLEMONIACEAE	PHLOX FAMILY
<i>Eriastrum sapphirinum</i>	Sapphire woollystar
<i>Gilia</i> species ( <i>diegensis</i> ?)	Unid. annual
<i>Saltugilia australis</i>	Southern gilia
POLYGONACEAE	BUCKWHEAT FAMILY
<i>Eriogonum gracile</i>	Slender wild buckwheat
<i>Eriogonum wrightii</i> var. <i>membranaceum</i>	Wright's buckwheat
RHAMNACEAE	BUCKTHORN FAMILY
<i>Frangula californica</i> ssp. <i>californica</i> ( <i>Rhamnus californica</i> )	California coffee berry
ROSACEAE	ROSE FAMILY
* <i>Prunus</i> species	Ornamental plum
RUBIACEAE	MADDER FAMILY, COFFEE FAMILY
*? <i>Galium aparine</i>	Goose grass, annual bedstraw
SAPINDACEAE	SOAPBERRY FAMILY
* <i>Acer saccharinum</i>	Silver maple
VISCACEAE	MISTLETOE FAMILY
<i>Arceuthobium campylopodum</i> ( <i>A. divaricatum</i> )	Western dwarf mistletoe (on pine)
<b>MONOCOTYLEDONS</b>	
POACEAE	GRASS FAMILY

**Scientific Name**

**Common Name**

- \* *Bromus diandrus* (*B. rigidus*)
- \* *Bromus tectorum*

- Ripgut brome
- Cheatgrass

**Scientific Name**

**Common Name**

**VERTEBRATES**

**Reptiles**

Phrynosomatidae

*Sceloporus occidentalis*

*Uta stansburiana elegans*

Spiny Lizards

Western fence lizard

Western side-blotched lizard

**Birds**

Accipitridae

*Buteo jamaicensis*

Hawks, Eagles, and Harriers

Red-tailed hawk

Aegithalidae

*Psaltriparus minimus*

Long-tailed Tits

Bushtit

Cardinalidae

*Pheucticus melanocephalus*

Cardinals

Black-headed grosbeak

Cathartidae

*Cathartes aura*

Vultures

Turkey vulture

Columbidae

*Zenaida macroura*

Pigeons and Doves

Mourning dove

Corvidae

*Corvus brachyrhynchos*

*Corvus corax*

Crows and Jays

American crow

Common raven

Fringillidae

*Haemorhous (Carpodacus) mexicanus*

Finches

House finch

Paridae

*Poecile (Parus) gambeli*

Chickadees and Titmice

Mountain chickadee

Passerellidae

*Junco hyemalis*

*Pipilo maculatus*

New World Sparrows

Dark-eyed junco

Spotted towhee

Picidae

*Colaptes auratus*

\*\* *Dryobates (Picoides) nuttallii*

*Melanerpes formicivorus*

Woodpeckers

Northern flicker

Nuttall's woodpecker (adjacent area)

Acorn woodpecker

Trochilidae

*Calypte anna*

Hummingbirds

Anna's hummingbird

**Scientific Name**

**Common Name**

Turdidae  
*Sialia currucoides*

Thrushes  
Mountain bluebird

**Mammals**

Felidae  
*Felis domesticus*

Cats  
Domestic cat

## APPENDIX B: SPECIAL STATUS SPECIES POTENTIALS FOR OCCURRENCE

Potentials for occurrence based on surveys in 2019, 2020, and 2021.

Species	Growth Form, Habitat and Distribution	Flowering Season	Conservation Status	Potential for Occurrence
<b>Plants</b>				
<i>Abronia villosa</i> var. <i>aurita</i> Chaparral sand-verbena	Annual herb. Sandy soils in chaparral, coastal scrub, desert dunes at 75-1600m elevation. Southern CA, Arizona, Baja.	(Jan)Mar-Sep	Fed: None Calif: S2 CRPR: 1B.1	Absent; no suitable habitat, one documented occurrence within 5 mi, not observed during surveys.
<i>Acmispon haydonii</i> Pygmy lotus	Perennial herb. Rocky areas in pinyon juniper woodland, Sonoran desert scrub at 520-1200m elevation. Riverside, San Diego, and Imperial Cos. and Baja.	Jan-Jun	Fed: None Calif: S3 CRPR: 1B.3	Absent; no suitable habitat, above elevation range, no documented occurrences within 5 mi., not observed during surveys.
<i>Allium marvinii</i> Yucaipa onion	Perennial bulbiferous herb. Clay soils in openings in chaparral at 760-1065m. Riverside and San Bernardino Cos.	Apr-May	Fed: None Calif: S1 CRPR: 1B.2 MSHCP: AC b USFS: S	Absent; no suitable habitat, well above elevation range, two documented occurrences within 5 mi., not observed during surveys.
<i>Almutaster pauciflorus</i> Alkali marsh aster	Perennial herb. Alkaline soils in meadows and seeps at 240 to 800m elevation. Inyo, Kern, Riverside, and San Bernardino Cos., SW and North-Central US, and Mexico.	Jun-Oct	Fed: None Calif: S1S2 CRPR: 2B.2	Absent; no suitable habitat, well above elevation range, no documented occurrences within 5 mi, not observed during surveys.
<i>Ambrosia monogyra</i> Singlewhorl burrobrush	Perennial shrub. Sandy soils in chaparral and Sonoran desert scrub at 10-500m elevation. Riverside, San Bernardino, and San Diego Cos., SW US, and Mexico.	Aug-Nov	Fed: None Calif: S2 CRPR: 2B.2	Absent; no suitable habitat, well above elevation range, no documented occurrences within 5 mi., not observed during surveys.
<i>Androsace elongata</i> ssp. <i>acuta</i> California androsace	Annual herb. Chaparral, cismontane woodland, coastal scrub, meadows and seeps, pinyon juniper woodland, valley and foothill grassland at 150-1305m elevation. Northern, Central, and Southern CA, Oregon, Baja.	Mar-Jun	Fed: None Calif: S3S4 CRPR: 4.2	Not expected; potentially marginal habitat, above elevation range, not observed during surveys.
<i>Arctostaphylos parryana</i> ssp. <i>tumescens</i> Interior manzanita	Perennial evergreen shrub. Montane chaparral, cismontane woodland at 2100-2310m elevation. Los Angeles and San Bernardino Cos.	Feb-Apr	Fed: None Calif: S3S4 CRPR: 4.3 USFS: S	Not expected; below elevation range, not observed during surveys.

Species	Growth Form, Habitat and Distribution	Flowering Season	Conservation Status	Potential for Occurrence
<i>Astragalus hornii</i> var. <i>hornii</i> <b>Horn's milk-vetch</b>	Annual herb. Alkaline soils along lake margins, meadows and seeps and playas at 60-850m elevation. San Bernardino, Inyo, Kern, Tulare(?) Co and Nevada. San Joaquin Valley, South Coast, Western Transverse Ranges, W edge of the Mojave Desert.	May-Oct	Fed: None Calif: S1 CRPR: 1B.1	Absent; no suitable habitat, well above elevation range, no documented occurrences within 5 mi., not observed during surveys.
<i>Astragalus lentiginosus</i> var. <i>cochellae</i> Coachella Valley milk-vetch	Annual/perennial herb. Sandy soils in Sonoran desert scrub, desert dunes at 40-655m elevation. Riverside Co.	Feb-May	Fed: END Calif: S1 CRPR: 1B.2	Absent; no suitable habitat, well above elevation range, no documented occurrences within 5 mi., not observed during surveys.
<i>Astragalus pachypus</i> var. <i>jaegeri</i> Jaeger's milk-vetch	Perennial shrub. Sandy or rocky soils in chaparral, cismontane woodland, coastal scrub, valley and foothill grassland at 365-975m elevation. Riverside and San Diego Cos.	Dec-Jun	Fed: None Calif: S1 CRPR: 1B.1 MSHCP: AC USFS: S BLM: S	Not expected; potentially suitable habitat, well above elevation range, no documented occurrences within 5 mi., not observed during surveys.
<i>Atriplex parishii</i> <b>Parish's brittle-scale</b>	Annual herb. Floodplains with alkali scrub, alkali playas, vernal pools, and alkali grasslands; southern California and Baja; 25-1900m elevation.	Jun - Oct	Fed: none Calif: S1 CRPR: 1B.1 MSHCP: AC d USFS: S	Absent; no suitable habitat, no documented occurrences within 5 mi, not observed during surveys.
<i>Ayenia compacta</i> California ayenia	Perennial herb. Rocky soils in Mojavean and Sonoran desert scrub at 150-1095m elevation. Riverside, San Bernardino, San Diego Cos., Arizona, Sonora and Baja Mexico.	Mar-Apr	Fed: none Calif: S3 CRPR: 2B.3	Absent; no suitable habitat, above elevation range, no documented occurrences within 5 mi., not observed during surveys.
<i>Boechea johnstonii</i> Johnston's rockcress	Perennial herb. Rocky areas, gravelly or eroded clay soils in chaparral, grassland, and lower montane coniferous forest (open oak/pine woodland) at 1350-2150m elevation. San Jacinto Mts in Riverside Co.	Feb-Jun	Fed: None Calif: S1 CRPR: 1B.2 MSHCP: AC b USFS: S	Absent; potentially marginal habitat subject to ongoing disturbance, one documented occurrence (from 1937) within 5 mi., not observed during focused surveys.

Species	Growth Form, Habitat and Distribution	Flowering Season	Conservation Status	Potential for Occurrence
<i>Calochortus palmeri</i> var. <i>munzii</i> Munz's (San Jacinto) mariposa lily	Perennial bulbiferous herb. Seasonally moist, fine granitic loam soils on exposed knolls in yellow pine forest and moist, sandy clay in chaparral and meadows. Chaparral, lower montane coniferous forest (open yellow pine forest), meadows and seeps at 855-2200m elevation. San Jacinto and Santa Rosa Mts in Riverside Co. and scattered locations in San Diego Co.	Apr-Jul	Fed: None Calif: S3 CRPR: 1B.2 MSHCP: AC b USFS: S	Absent; potentially marginal habitat subject to ongoing disturbance, 12 documented occurrences within 5 mi., not observed during focused surveys.
<i>Calochortus palmeri</i> var. <i>palmeri</i> Palmer's mariposa-lily	Perennial bulbiferous herb. Mesic soils in chaparral, lower montane coniferous forest, meadows and seeps at 710-2390m elevation. Kern, LA, Riverside, Santa Barbara, San Bernardino, San Luis Obispo, Ventura Co.	Apr-Jul	Fed: None Calif: S2 CRPR: 1B.2 USFS: S BLM: S	Not expected; potentially marginal habitat, no documented occurrences within 5 mi., not observed during surveys.
<i>Calochortus plummerae</i> Plummer's mariposa lily	Perennial bulbiferous herb. Granitic rocky soils in chaparral, cismontane woodland, coastal scrub, lower montane coniferous forest, valley and foothill grassland at 100-1700m elevation. LA, Orange, Riverside, San Bernardino, Ventura Co.	May-Jul	Fed: None Calif: S4 CRPR: 4.2 MSHCP: AC	Not expected; potentially marginal habitat, 4 documented occurrences within 5 mi., not observed during surveys.
<i>Carex occidentalis</i> Western sedge	Perennial rhizomatous herb. Lower montane coniferous forest, meadows and seeps at 1645-3135m elevation. Los Angeles, Riverside, San Bernardino, and Mono Cos. (San Bernardino, San Jacinto, San Gabriel, and White Mts), western US.	Jun-Aug	Fed: None Calif: S3 CRPR: 2B.3	Not expected; no suitable habitat, one documented occurrence within 5 mi., not observed during surveys.
<i>Castilleja lasiorhyncha</i> San Bernardino Mountains owl's-clover	Hemiparasitic annual herb. Mesic areas in chaparral, montane meadows, pebble plains, riparian woodland, upper montane coniferous forest at 1300-2390m elevation. Moist edges of springs/seeps on clay soil, wet meadows, openings in coniferous forest. Riverside, San Diego, San Bernardino Co.; San Bernardino Mts, San Jacinto Mts.	May-Aug	Fed: None Calif: S2? CRPR: 1B.2	Low; no or marginal suitable habitat, one documented occurrence within 5 mi., not observed during surveys.
<i>Caulanthus simulans</i> Payson's jewelflower	Annual herb. Chaparral, coastal scrub, pinyon-juniper woodland at 90-2200m elevation. North-facing slopes and ridgelines on sandy-granitic soils, frequently on steep rocky slopes, in burned areas, or disturbed sites such as streambeds. Western Riverside Co., San Diego Co.	(Feb)Mar-May(Jun)	Fed: None Calif: S4 CRPR: 4.2 MSHCP: AC	Absent; no suitable habitat, one documented occurrence within 5 mi., not observed during surveys.



Species	Growth Form, Habitat and Distribution	Flowering Season	Conservation Status	Potential for Occurrence
<i>Centromadia pungens</i> ssp. <i>laevis</i> Smooth tarplant	Annual herb. Alkaline soils in chenopod scrub, meadows and seeps, playas, riparian woodland, valley and foothill grassland at 0-640m elevation. Also fallow fields, drainage ditches; primarily in SW Riverside Co. but a few sites in interior valleys of LA, San Bernardino, San Diego Co.	Apr-Sep	Fed: None Calif: S2 CRPR: 1B.1 MSHCP: AC d	Absent; no suitable habitat, well above elevation range, no documented occurrences within 5 mi., not observed during surveys.
<i>Chaenactis parishii</i> <b>Parish's chaenactis</b>	Perennial herb. Rocky soils in chaparral at 1300-2500m elevation. Riverside and San Diego Cos., Baja.	May-Jul	Fed: None Calif: S3 CRPR: 1B.3	Absent; no suitable habitat, three documented occurrences within 5 mi., not observed during surveys.
<i>Chorizanthe leptotheca</i> Peninsular spineflower	Annual herb. Granitic soils and alluvial fans in chaparral, coastal scrub, lower montane coniferous forest at 300-1900m elevation. Riverside, San Bernardino, San Diego Co., Baja.	May-Aug	Fed: None Calif: S3 CRPR: 4.2 MSHCP: AC	Not expected; no or marginal habitat, not observed during surveys.
<i>Chorizanthe parryi</i> var. <i>parryi</i> Parry's spineflower	Annual herb. Sandy or rocky soils and openings in chaparral, cismontane woodland, coastal scrub, valley and foothill grassland at 275-1220m elev. LA, Riverside, San Bernardino Co.	Apr-Jun	Fed: None Calif: S2 CRPR: 1B.1 USFS: S BLM: S MSHCP: AC	Not expected; no or marginal habitat, above elevation range, no documented occurrences within 5 mi., not observed during surveys.
<i>Chorizanthe polygonoides</i> var. <i>longispina</i> Long-spined spineflower	Annual herb. Often on clay soils in chaparral, coastal scrub, meadows and seeps, valley and foothill grassland, vernal pools at 30-1530m elevation. Orange, Riverside, Santa Barbara, and San Diego Co., Baja.	Apr-Jul	Fed: None Calif: S3 CRPR: 1B.2 MSHCP: AC	Absent; no suitable habitat, above elevation range, no documented occurrences within 5 mi., not observed during surveys.
<i>Chorizanthe xanti</i> var. <i>leucotheca</i> White-bracted spineflower	Annual herb. Sandy or gravelly soil in coastal scrub (alluvial fans), Mojavean desert scrub, pinyon and juniper woodlands at 300-1200m elevation. LA, Riverside, San Bernardino, San Diego Co.	Apr-Jun	Fed: None Calif: S3 CRPR: 1B.2	Absent; no suitable habitat, above elevation range, one documented occurrence within 5 mi., not observed during surveys.
<i>Deinandra mohavensis</i> Mojave tarplant	Annual herb. Mesic areas in chaparral, coastal scrub, riparian scrub at 640-1600m. Inyo, Kern, Riverside, San Diego, Tulare Cos. Presumed extirpated in San Bernardino Co.	(May)Jun-Oct (Jan)	Fed: None Calif: END, S2 CRPR: 1B.3 MSHCP: NAC e USFS: S BLM: S	Absent; no suitable habitat, slightly above elevation range, multiple documented occurrences within 5 mi., not observed during surveys.

Species	Growth Form, Habitat and Distribution	Flowering Season	Conservation Status	Potential for Occurrence
<i>Deinandra (Hemizonia) paniculata</i> Paniculate tarplant	Annual herb. Usually vernal mesic areas, sometimes sandy. Coastal scrub, valley and foothill grassland, vernal pools at 25-940m elevation. Orange, Riverside, Santa Barbara, San Bernardino, San Diego, San Luis Obispo Co., Baja.	(Mar) Apr-Nov	Fed: None Calif: S4 CRPR: 4.2	Absent; no suitable habitat well above elevation range, not observed during surveys.
<i>Delphinium hesperium ssp. cuyamaca</i> Cuyamaca larkspur	Perennial herb. Mesic areas in lower montane coniferous forest, meadows and seeps, vernal pools at 1220-1631m elevation. Riverside and San Diego Cos.	May-Jul	Fed: None Calif: Rare, S2 CRPR: 1B.2 USFS: S BLM: S	Not expected; no or marginal suitable habitat, at top of elevation range, no documented occurrences within 5 mi., not observed during surveys.
<i>Delphinium parishii ssp. subglobosum</i> Colorado Desert larkspur	Perennial herb. Chaparral, cismontane woodland, pinyon and juniper woodland, Sonoran desert scrub at 600-1800m elevation. Imperial, Riverside, San Diego Cos. and Baja.	Mar-Jun	Fed: None Calif: S4 CRPR: 4.3	Not expected; potentially suitable habitat, no CCH records near Idyllwild, not observed during surveys.
<i>Delphinium parryi ssp. purpureum</i> Mt. Pinos larkspur	Perennial herb. Chaparral, Mojavean desert scrub, pinyon and juniper woodland at 1000-2600m elevation. Kern, Santa Barbara, Ventura, Riverside, San Bernardino Cos.	May-Jun	Fed: None Calif: S4 CRPR: 4.3 USFS: S	Absent; no suitable habitat, no CCH records near Idyllwild, not observed during surveys.
<i>Dieteria canescens var. ziegleri</i> Ziegler's aster	Perennial herb. Montane coniferous forest at 1372-2499m elevation. Riverside Co., known only from the Santa Rosa Mts.	Jul-Oct	Fed: None Calif: S1 CRPR: 1B.2 USFS: S	Not expected; outside of current known range, no documented occurrences within 5 mi, not observed during surveys.
<i>Dodecahema leptoceras</i> Slender-horned spineflower	Annual herb. Open, sandy alluvial benches in valleys & canyons. Chaparral, coastal scrub, alluvial scrub, cismontane woodland at 200-760m elevation. LA, Riverside, San Bernardino Co. San Fernando Valley, Santa Ana River Valley, W Riverside Co.	Apr-Jun	Fed: END Calif: END, S1 CRPR: 1B.1 MSHCP: AC b	Not expected; no or marginal suitable habitat, well above elevation range, no documented occurrences within 5 mi., not observed during surveys.
<i>Draba saxosa</i> Southern California rock draba	Perennial herb. Rocky soils in alpine boulder and rock field, subalpine coniferous forest, upper montane coniferous forest at 2440-3600m elevation. Riverside and San Bernardino Cos. Known only from the San Jacinto and Santa Rosa Mts.	Jun-Sep	Fed: None Calif: S2S3 CRPR: 1B.3 USFS: S	Not expected; well below elevation range, four documented occurrences within 5 mi. all above 8400 feet (2560m), not observed during surveys.

Species	Growth Form, Habitat and Distribution	Flowering Season	Conservation Status	Potential for Occurrence
<i>Erigeron breweri</i> var. <i>jacintus</i> San Jacinto Mountains daisy	Perennial rhizomatous herb. Rocky soils in subalpine and upper montane coniferous forest at 2700-2900m. Los Angeles, Riverside, and San Bernardino Cos. in San Gabriel, San Bernardino, and San Jacinto Mts.	Jun-Sep	Fed: None Calif: S3 CRPR: 4.3	Not expected; well below elevation range, CCH records near Idyllwild are at Tahquitz peak at much higher elevation than the Project site, not observed during surveys.
<i>Eriogonum evanidum</i> Vanishing wild buckwheat	Annual herb. Sandy or gravelly soils in chaparral, cismontane woodland, lower montane coniferous forest, pinyon and juniper woodland at 1100-2225m elevation. Riverside, San Bernardino, San Diego Cos. and Baja.	Jul-Oct	Fed: None Calif: S1 CRPR: 1B.1 USFS: S	Not expected; no or marginal habitat, no documented occurrences within 5 mi., not observed during surveys.
<i>Erythranthe diffusa</i> Palomar monkeyflower	Annual herb. Sandy or gravelly soils in chaparral, lower montane coniferous forest at 1220-1830m elevation. Orange, Riverside, San Diego Co., Baja.	Apr-Jun	Fed: None Calif: S3 CRPR: 4.3	Low; potentially marginal habitat, several CCH records near Idyllwild, not observed during surveys.
<i>Euphorbia arizonica</i> Arizona spurge	Perennial herb. Sandy soils in Sonoran desert scrub at 50-300m elevation. Riverside, San Diego, Imperial Cos., SW US, Sonora and Baja Mexico.	Mar-Apr	Fed: None Calif: S3 CRPR: 2B.3	Absent; no suitable habitat, well above elevation range, no documented occurrences within 5 mi., not observed during surveys.
<i>Galium angustifolium</i> ssp. <i>gracillimum</i> Slender bedstraw	Perennial herb. Granitic, rocky soils in Joshua tree woodland, Sonoran desert scrub at 130-1550m elevation. Riverside, San Bernardino, LA, San Diego, and Imperial Cos.	Apr-Jun(Jul)	Fed: None Calif: S4 CRPR: 4.2	Absent; no suitable habitat, well above elevation range, not observed during surveys.
<i>Galium angustifolium</i> ssp. <i>jacinticum</i> San Jacinto Mountains bedstraw	Perennial herb. Partially shady or open lower montane mixed and coniferous forest at 1350-2100m. Riverside Co. (San Jacinto and Santa Rosa Mts) and San Diego Co. (Laguna and Volcan Mts).	Jun-Aug	Fed: None Calif: S2? CRPR: 1B.3 MSHCP: AC b USFS: S	Absent; potentially marginal habitat subject to ongoing disturbance, 10 documented occurrences within 5 mi., not observed during focused surveys.
<i>Galium californicum</i> ssp. <i>primum</i> Alvin meadow bedstraw	Perennial herb. Granitic, sandy soil in chaparral, lower montane coniferous forest at 1350-1700m elevation. Riverside, San Bernardino Co.	May-Jul	Fed: None Calif: S2 CRPR: 1B.2 MSHCP: NAC f	Low; potentially marginal habitat, 10 documented occurrences within 5 mi., not observed during surveys.

Species	Growth Form, Habitat and Distribution	Flowering Season	Conservation Status	Potential for Occurrence
<i>Heuchera hirsutissima</i> Shaggy-haired alumroot	Perennial rhizomatous herb. Rocky, granitic soils in subalpine and upper montane coniferous forest at 1520-3500m elevation. Riverside and San Bernardino Cos.	(May)Jun-Jul	Fed: None Calif: S3 CRPR: 1B.3 MSHCP: NAC f USFS: S	Low; potentially suitable habitat, 7 documented occurrences within 5 mi. but all are much higher elevation than site, not observed during surveys.
<i>Heuchera parishii</i> Parish's alumroot	Perennial rhizomatous herb. Rocky, sometimes carbonate soils in alpine boulder and rock field, subalpine and montane coniferous forest at 1500-3800m elevation. Riverside and San Bernardino Cos.	Jun-Aug	Fed: None Calif: S3 CRPR: 1B.3 USFS: S	Not expected; potentially marginal habitat, no documented occurrences within 5 mi, not observed during surveys.
<i>Horsfordia newberryi</i> Newberry's velvet-mallow	Perennial shrub. Rocky areas in Sonoran desert scrub at 3-800m elevation. Riverside, San Diego, Imperial Cos., Arizona, Baja and Sonora, Mexico	Feb-Dec	Fed: None Calif: S4 CRPR: 4.3	Absent; no suitable habitat, well above elevation range, not observed during surveys.
<i>Hulsea vestita</i> ssp. <i>callicarpa</i> Beautiful hulsea	Perennial herb. Rocky or gravelly granitic soils in chaparral and lower montane coniferous forest at 915-3050m elevation. Riverside and San Diego Cos.	May-Oct	Fed: None Calif: S4 CRPR: 4.2 MSHCP: AC	Low; potentially marginal habitat, multiple CCH records in and near Idyllwild, not observed during surveys.
<i>Imperata brevifolia</i> California satintail	Perennial rhizomatous herb. Mesic areas in chaparral, coastal scrub, Mojavean desert scrub, meadows and seeps (often alkali), riparian scrub at 0-1215m elevation. Scattered location throughout CA, SW US, Baja.	Sep-May	Fed: None Calif: S3 CRPR: 2B.1 USFS: S	Absent; no suitable habitat, above elevation range, no documented occurrences within 5 mi., not observed during surveys.
<i>Ivesia callida</i> Tahquitz ivesia	Perennial herb. Granitic rocky soils in upper montane coniferous forest at 2410-2450m elevation. San Jacinto Mts in Riverside Co.	Jul-Sep	Fed: None Calif: Rare,S1 CRPR: 1B.3 USFS: S	Not expected; potentially marginal habitat, well below elevation range, two documented occurrences within 5 mi., but much higher elevation than site, not observed during surveys.
<i>Jaffueliobryum raii</i> Rau's jaffueliobryum moss	Moss. Dry openings, rock crevices, carbonate soils in alpine dwarf scrub, chaparral, Mojavean and Sonoran desert scrub at 490-2100m elevation. Scattered locations in northern, central, and southern CA, SW and Midwestern US.	--	Fed: None Calif: S2 CRPR: 2B.3	Absent; no suitable habitat, no documented occurrences within 5 mi, not observed during surveys.

Species	Growth Form, Habitat and Distribution	Flowering Season	Conservation Status	Potential for Occurrence
<i>Johnstonella costata</i> Ribbed cryptantha	Annual herb. Sandy soils in Mojavean and Sonoran desert scrub, desert dunes at 60-500m elevation. Riverside, San Bernardino, San Diego, Imperial, and Inyo Cos.	Feb-May	Fed: None Calif: S4 CRPR: 4.3	Absent; no suitable habitat, well above elevation range, not observed during surveys.
<i>Johnstonella holoptera</i> Winged cryptantha	Annual herb. Mojavean and Sonoran desert scrub at 100-1690m elevation. Riverside, San Bernardino, San Diego, Imperial, and Inyo Cos., Arizona, Nevada, Sonora and Baja Mexico.	Mar-Apr	Fed: None Calif: S4 CRPR: 4.3	Absent; no suitable habitat, no CCH records near Idyllwild, not observed during surveys.
<i>Juglans californica</i> Southern California black walnut	Perennial deciduous tree. Alluvial soils in chaparral, cismontane woodland, coastal scrub, riparian woodland at 50-900m elevation. LA, Orange, Riverside, Santa Barbara, San Bernardino, San Diego, Ventura Co.	Mar-Aug	Fed: None Calif: S4 CRPR: 4.2 MSHCP: AC	Absent; potentially suitable habitat, well above elevation range, not observed during surveys.
<i>Juncus acutus ssp. leopoldii</i> Southwestern spiny rush	Perennial rhizomatous herb. Mesic coastal dunes, alkaline seeps, coastal salt marshes at 3-900m elevation. S CA, central coast, AZ, NV, other areas. Not tracked in CNDDB.	(Mar)May-Jun	Fed: None Calif: S4 CRPR: 4.2	Absent; no suitable habitat, well above elevation range, not observed during surveys.
<i>Juncus cooperi</i> Cooper's rush	Perennial herb. Meadows and seeps (mesic, alkaline, or saline) at -260-1770m elevation. Riverside, San Bernardino, Inyo, San Diego, Imperial Cos., Nevada.	Apr-May(Aug)	Fed: None Calif: S3 CRPR: 4.3	Absent; no suitable habitat, not observed during surveys.
<i>Juncus duranii</i> <b>Duran's rush</b>	Perennial rhizomatous herb. Mesic areas in lower montane coniferous forest, meadows and seeps, upper montane coniferous forest at 1769-2804m elevation. LA, Riverside, San Bernardino Co.	Jul-Aug	Fed: None Calif: S3 CRPR: 4.3	Not expected; no or marginal suitable habitat, somewhat below elevation range, not observed during surveys.
<i>Lasthenia glabrata ssp. coulteri</i> Coulter's goldfields	Annual herb. Coastal salt marshes and swamps, playas, vernal pools at 1-1220m elevation. Scattered locations in CA, Baja.	Feb-Jun	Fed: None Calif: S2 CRPR: 1B.1 BLM: S MSHCP: AC d	Absent; no suitable habitat, above elevation range, no documented occurrences within 5 mi., not observed during surveys.
<i>Lepidium virginicum</i> var. <i>robinsonii</i> Robinson's pepper-grass	Annual herb. Chaparral, coastal scrub at 1-885m elevation. LA, Orange, Riverside, Santa Barbara, San Bernardino, San Diego, Ventura Co., Santa Cruz Island.	Jan-Jul	Fed: None Calif: S3 CRPR: 4.3	Absent; no suitable habitat, above elevation range, not observed during surveys.
<i>Lilium parryi</i> Lemon lily	Perennial bulbiferous herb. Mesic soils in upper and lower montane coniferous forest, riparian forest, meadows and seeps at 1220-2745m elevation. LA, Riverside, San Bernardino, San Diego Co, Arizona, Sonora Mex.	July-Aug	Fed: None Calif: S3 CRPR: 1B.2 USFS: S MSHCP: NAC f	Low; no or marginal suitable habitat, multiple documented occurrences within 5 mi., not observed during surveys.

Species	Growth Form, Habitat and Distribution	Flowering Season	Conservation Status	Potential for Occurrence
<i>Limnanthes alba</i> ssp. <i>parishii</i> Parish's meadowfoam	Annual herb. Vernal mesic areas in lower montane coniferous forest, meadows and seeps, vernal pools at 600-2000m elevation. Riverside and San Diego Cos.	Apr-Jun	Fed: None Calif: END, S2 CRPR: 1B.2 USFS: S BLM: S MSHCP: AC	Not expected; no suitable habitat, two documented occurrences within 5 mi., not observed during surveys.
<i>Linanthus jaegeri</i> San Jacinto linanthus	Perennial herb. Granitic rocky soils in subalpine and upper montane coniferous forest at 2195-3050m. Riverside Co.	Jul-Sep	Fed: None Calif: S2 CRPR: 1B.2 USFS: S	Not expected; well below elevation range, five documented occurrences within 5 mi., but all much higher elevation than site, not observed during surveys.
<i>Linanthus maculatus</i> ssp. <i>maculatus</i> Little San Bernardino Mountains linanthus	Annual herb. Sandy soils in Joshua tree woodland, Mojavean and Sonoran desert scrub, desert dunes at 140-1220m elevation. Riverside, San Bernardino, and Imperial Cos.	Mar-May	Fed: None Calif: S2 CRPR: 1B.2 BLM: S	Absent; no suitable habitat, above elevation range, no documented occurrences within 5 mi., not observed during surveys.
<i>Lycium torreyi</i> Torrey's box-thorn	Perennial shrub. Sandy, rocky, washes, streambanks, desert valleys in Mojavean and Sonoran desert scrub from below sea level to 1220m elevation. S CA, SW US, Sonora, Mexico.	(Jan-Feb)Mar-Jun(Sep-Nov)	Fed: None Calif: S3 CRPR: 4.2	Absent; no suitable habitat, above elevation range, not observed during surveys.
<i>Malaxis monophyllos</i> var. <i>brachypoda</i> White bog adder's-mouth	Perennial bulbiferous herb. Mesic areas in bogs and fens, meadows and seeps, and upper montane coniferous forest at 2200-2743m elevation. Riverside and San Bernardino Cos., presumed extirpated in Riverside Co. Eastern, central, southwest US and Alaska.	Jun, Aug	Fed: none Calif: S1 CRPR: 2B.1 USFS: S	Not expected; no or marginal suitable habitat, well below elevation range, one documented occurrence within 5 mi. but much higher elevation, not observed during surveys.
<i>Matelea parvifolia</i> Spear-leaf matelea	Perennial herb. Rocky soils in Mojavean and Sonoran desert scrub at 440-1095m elevation. Riverside, San Bernardino, San Diego, Imperial Cos. SW US and Baja.	Mar-May(Jul)	Fed: none Calif: S3 CRPR: 2B.3 USFS: S	Absent; no suitable habitat, well above elevation range, no documented occurrences within 5 mi., not observed during surveys.
<i>Meesia triquetra</i> Three-ranked hump moss	Moss. Found on soil in bogs and fens, meadows and seeps, mesic areas in subalpine and upper montane coniferous forest at 1300-2953m elevation. Northern and Central CA and Riverside Co. (San Jacinto Mts.), NW and SW US.	Jul	Fed: none Calif: S4 CRPR: 4.2 USFS: S	Not expected; no or marginal suitable habitat, only one record in San Jacinto Mts and appears extirpated (Dillingham 2005), not observed during surveys.

Species	Growth Form, Habitat and Distribution	Flowering Season	Conservation Status	Potential for Occurrence
<i>Meesia uliginosa</i> Broad-nerved hump moss	Moss. Found on damp soil in bogs and fens, meadows and seeps, subalpine and upper montane coniferous forest at 1210-2804m elevation. Northern and Central CA and Riverside Co. (San Jacinto Mts.); NW, SW and north-central US.	Jul, Oct	Fed: none Calif: S3 CRPR: 2B.2 USFS: S	Not expected; no or marginal suitable habitat, one documented occurrence within 5 mi. from 1961 and at much higher elevation, not observed during surveys.
<i>Monardella macrantha</i> ssp. <i>hallii</i> Hall's monardella	Perennial rhizomatous herb. Broadleaf upland forest, chaparral, cismontane woodland, lower montane coniferous forest, valley and foothill grassland at 730-2195m elevation. LA, Orange, Riverside, San Bernardino, San Diego Co.	Jun-Oct	Fed: None Calif: S3 CRPR: 1B.3 USFS: S MSHCP: AC	Low; potentially suitable habitat, no documented occurrences within 5 mi, not observed during surveys.
<i>Monardella nana</i> ssp. <i>leptosiphon</i> San Felipe monardella	Perennial rhizomatous herb. Chaparral, lower montane coniferous forest at 1200-1855m elevation. Riverside and San Diego Cos., Baja	Jun-Jul	Fed: None Calif: S2 CRPR: 1B.2 USFS: S BLM: S	Low; potentially marginal habitat, five documented occurrences within 5 mi., not observed during surveys.
<i>Nemacaulis denudata</i> var. <i>gracilis</i> Slender cottonheads	Annual herb. Coastal dunes, desert dunes, Sonoran desert scrub at 50-400m elevation. Riverside, San Bernardino, San Diego, Imperial Cos. Arizona, Sonora and Baja Mexico.	(Mar)Apr-May	Fed: None Calif: S2 CRPR: 2B.2	Absent; no suitable habitat, well above elevation range, no documented occurrences within 5 mi., not observed during surveys.
<i>Penstemon californicus</i> California beardtongue	Perennial herb. Sandy soils in chaparral, lower montane coniferous forest, pinyon and juniper woodland at 1170-2300m. Orange and Riverside Cos., Baja.	May-Jun(Aug)	Fed: none Calif: S2 CRPR: 1B.2 USFS: S	Low; potentially suitable or marginal habitat, no documented occurrences within 5 mi., not observed during surveys.
<i>Penstemon clevelandii</i> var. <i>connatus</i> San Jacinto beardtongue	Perennial herb. Rocky soils in chaparral, pinyon and juniper woodland, Sonoran desert scrub at 400-1500m elevation. Riverside, San Diego, and Imperial Cos., Baja.	Mar-May	Fed: none Calif: S3 CRPR: 4.3	Absent; no suitable habitat, above elevation range, not observed during surveys.
<i>Pentachaeta aurea</i> ssp. <i>aurea</i> Golden-rayed pentachaeta	Annual herb. Chaparral, cismontane woodland, coastal scrub, lower montane coniferous forest, riparian woodland, valley and foothill grassland at 80-1850m elevation. LA, Riverside, Orange, San Bernardino, and San Diego Cos., Baja.	Mar-Jul	Fed: None Calif: S3 CRPR: 4.2	Low; potentially marginal habitat, not observed during surveys.

Species	Growth Form, Habitat and Distribution	Flowering Season	Conservation Status	Potential for Occurrence
<i>Petalonyx linearis</i> Narrow-leaf sandpaper-plant	Perennial shrub. Sandy or rocky canyons in Mojavean and Sonoran desert scrub at 25-1115m elevation. Riverside, San Bernardino, San Diego, and Imperial Cos., Arizona, Sonora and Baja Mexico.	(Jan-Feb)Mar-May(Jun-Dec)	Fed: None Calif: S3? CRPR: 2B.3	Absent; no suitable habitat, above elevation range, no documented occurrences within 5 mi., not observed during surveys.
<i>Potentilla rimicola</i> Cliff cinquefoil	Perennial herb. Granitic, rocky soils in subalpine and upper montane coniferous forest at 2400-2800m elevation. Riverside Co. (San Jacinto Mts.), Baja.	Jul-Sep	Fed: None Calif: S1 CRPR: 2B.3 MSHCP: NAC e USFS: S	Not expected; no or marginal habitat, below elevation range, 7 documented occurrences within 5 mi., but all at much higher elevation, not observed during surveys.
<i>Quercus engelmannii</i> Engelmann oak	Perennial deciduous tree. Chaparral, cismontane woodland, riparian woodland, valley and foothill grassland at 50-1300m elevation. Mostly in foothills of Orange, west Riverside, and San Diego Counties, also southeast San Gabriel Mountain foothills (LA County). Not tracked in the CNDDDB.	Mar-Jun	Fed: None Calif: S3 CRPR: 4.2	Absent; potentially suitable habitat, above elevation range, not observed during surveys.
<i>Rupertia rigida</i> <b>Parish's rupertia</b>	Perennial herb. Chaparral, cismontane woodland, lower montane coniferous forest, meadows and seeps, pebble plain, valley and foothill grassland at 700-2500m elevation. LA, Riverside, San Bernardino, San Diego Cos., Baja.	Jun-Aug	Fed: None Calif: S4 CRPR: 4.3	Low; no or marginal habitat, one CCH record near Idyllwild, not observed during surveys.
<i>Saltugilia latimeri</i> <b>Latimer's woodland gilia</b>	Annual herb. Rocky or sandy, often granitic soils, sometimes washes in chaparral, Mojavean desert scrub, pinyon and juniper woodland at 400-1900m. Riverside, San Bernardino, Inyo, Kern Cos.	Mar-Jun	Fed: None Calif: S3 CRPR: 1B.2 USFS: S BLM: S	Not expected; no suitable habitat, two documented occurrences within 5 mi., not observed during surveys.
<i>Scutellaria bolanderi</i> ssp. <i>austromontana</i> Southern mountains skullcap	Perennial rhizomatous herb. Mesic areas in chaparral, cismontane woodland, lower montane coniferous forest at 425-2000m elevation. Often in meadows and along streams. LA, Riverside, San Bernardino, San Diego Cos. Presumed extirpated in LA and San Bernardino Cos.	Jun-Aug	Fed: None Calif: S3 CRPR: 1B.2 USFS: S	Low; no or marginal habitat, 12 occurrences within 5 mi, not observed during surveys.
<i>Sedum niveum</i> <b>Davidson's stonecrop</b>	Perennial rhizomatous herb. Rocky soils in lower and upper montane and subalpine coniferous forest at 2075-3000m elevation. Riverside and San Bernardino Cos., Baja.	Jun-Aug	Fed: None Calif: S3 CRPR: 4.2 USFS: S	Not expected; no or marginal habitat, below elevation range, no CCH records near Idyllwild, not observed during surveys.



Species	Growth Form, Habitat and Distribution	Flowering Season	Conservation Status	Potential for Occurrence
<i>Selaginella asprella</i> Bluish spike-moss	Perennial rhizomatous herb. Granitic, rocky soils in cismontane woodland, pinyon juniper woodland, and lower, upper, and subalpine coniferous forest at 1600-2700m elevation. Riverside, San Bernardino, San Diego, LA, Orange, Kern, and Tulare Cos.	Jul	Fed: None Calif: S4 CRPR: 4.3	Not expected; potentially marginal habitat, no CCH records near Idyllwild, not observed during surveys.
<i>Selaginella eremophila</i> Desert spike-moss	Perennial rhizomatous herb. Gravelly or rocky soils in chaparral and Sonoran desert scrub at 200-1295m elevation. Riverside, San Diego, Imperial Cos., Arizona, Sonora and Baja Mexico.	(May)June (Jul)	Fed: None Calif: S2S3 CRPR: 2B.2	Absent; no suitable habitat, above elevation range, no documented occurrences within 5 mi., not observed during surveys.
<i>Sidothea caryophylloides</i> Chickweed oxytheca	Annual herb. Sandy soils in lower montane coniferous forest at 1114-2600m elevation. LA, Riverside, San Bernardino, Tulare, Ventura Co.	Jul- Sep(Oct)	Fed: None Calif: S4 CRPR: 4.3 USFS: S MSHCP: NAC e	Low; no or marginal habitat, CCH records in and near Idyllwild, not observed during surveys.
<i>Sidothea emarginata</i> White-margined oxytheca	Annual herb. Chaparral, lower montane coniferous forest, pinyon and juniper woodland at 1200-2500m. Santa Rosa and San Jacinto Mts in Riverside Co.	(Feb)Apr- Jul(Aug)	Fed: None Calif: S3 CRPR: 1B.3 USFS: S	Low; no or marginal habitat, three documented occurrences within 5 mi, not observed during surveys.
<i>Sphaerocarpos drewei</i> Bottle liverwort	Ephemeral liverwort. Grows on soil in openings in chaparral and coastal scrub at 90-600m elevation. Riverside and San Diego Cos.	Not applicable	Fed: None Calif: S1 CRPR: 1B.1	Absent; no suitable habitat, no documented occurrences within 5 mi., not observed during surveys.
<i>Stemodia durantifolia</i> Purple stemodia	Perennial herb. Often in mesic areas and sandy soils in Sonoran desert scrub at 180-300m elevation. Riverside and San Diego Cos., presumed extirpated in Riverside Co. Also SW US, Baja, South America, Puerto Rico, Virgin Islands.	(Jan)Apr, Jun, Aug, Sep, Oct, Dec	Fed: None Calif: S2 CRPR: 2B.1	Absent; no suitable habitat, well above elevation range, no documented occurrences within 5 mi., not observed during surveys.
<i>Streptanthus bernardinus</i> Laguna Mountains jewelflower	Perennial herb. Chaparral, lower montane coniferous forest at 670-2500m elevation. Riverside, San Bernardino, San Diego Co.	May-Aug	Fed: None Calif: S3S4 CRPR: 4.3	Low; no or marginal habitat, two documented occurrences within 5 mi, not observed during surveys.
<i>Streptanthus campestris</i> Southern jewelflower	Perennial herb. Rocky soils in chaparral, lower montane coniferous forest, pinyon and juniper woodland at 900-2300m elevation. Imperial, Santa Barbara, Ventura, San Bernardino, Riverside, San Diego Co, Baja.	(Apr)May- Jul	Fed: None Calif: S3 CRPR: 1B.3	Low; no or marginal habitat, three documented occurrences within 5 mi, not observed during surveys.

Species	Growth Form, Habitat and Distribution	Flowering Season	Conservation Status	Potential for Occurrence
<i>Symphotrichum defoliatum</i> San Bernardino aster	Perennial rhizomatous herb. Near ditches, streams, springs in cismontane woodland, coastal scrub, lower montane coniferous forest, meadows and seeps, marshes and swamps, valley and foothill grasslands (vernally mesic) at 2-2040m elevation. Southern and Central California.	Jul-Nov	Fed: None Calif: S2 CRPR: 1B.2 USFS: S BLM: S	Not expected; no suitable habitat, three documented occurrences within 5 mi., not observed during surveys.
<i>Syntrichopappus lemmonii</i> Lemmon's syntrichopappus	Annual herb. Sandy or gravelly soils in chaparral, Joshua tree woodland, pinyon and juniper woodland at 500-1830m. Riverside, San Bernardino, LA, Ventura, Kern, and Monterey Cos.	Apr-May(Jun)	Fed: None Calif: S4 CRPR: 4.3	Absent; no suitable habitat, no CCH records near Idyllwild, not observed during surveys.
<i>Thelypteris puberula</i> var. <i>sonorensis</i> Sonoran maiden fern	Perennial rhizomatous herb. Meadows, seeps/streambanks at 50-610m elevation; Coast Ranges, coastal foothills of the Santa Monica, San Gabriel, San Bernardino Mountains, desert foothills of San Jacinto Mountains; to Arizona, Baja, Sonora.	Jan-Sep	Fed: None Calif: S2 CRPR: 2B.2 USFS: S	Absent; no suitable habitat, well above elevation range, no documented occurrences within 5 mi., not observed during surveys.
<i>Thysanocarpus rigidus</i> Rigid fringepod	Annual herb. Dry, rocky slopes in pinyon juniper woodland at 600-2200m elevation. LA, Riverside, San Bernardino, San Diego Co., Baja. Known from fewer than 10 occurrences in CA and one in Baja.	Feb-May	Fed: None Calif: S1 CRPR: 1B.2 USFS: S BLM: S	Absent; no suitable habitat, no documented occurrences within 5 mi., not observed during surveys.
<i>Trichostema austromontanum</i> ssp. <i>compactum</i> Hidden Lake bluecurls	Annual herb. Upper montane coniferous forest on seasonally submerged lake margins at 2400-2680m elevation. San Jacinto Mts in Riverside Co.	Jul-Sep	Fed: Delisted Calif: S1 CRPR: 1B.1	Absent; no suitable habitat, well below elevation range, no documented occurrences within 5 mi., not observed during surveys.
<i>Xylorhiza cognata</i> Mecca-aster	Perennial herb. Sonoran desert scrub at 20-400m elevation. Imperial and Riverside Cos.	Jan-Jun	Fed: None Calif: S2 CRPR: 1B.2 BLM: S	Absent; no suitable habitat, well above elevation range, no documented occurrences within 5 mi., not observed during surveys.
References: CDFW (2021a, 2021c), CNPS (2021), Dudek (2003), RCA (2020)				

Species	Habitat and Distribution	Conservation Status	Potential for Occurrence
Invertebrates			
<i>Bombus caliginosus</i> Obscure bumble bee	Coastal areas from Santa Barbara County north to Washington State. Food plant genera include <i>Baccharis</i> , <i>Cirsium</i> , <i>Lupinus</i> , <i>Lotus</i> , <i>Grindelia</i> , and <i>Phacelia</i> .	Fed: None Calif: SA, S1S2	Not expected; outside current known range, one documented occurrence in San Jacinto Mts from 1929.
<i>Bombus crotchii</i> Crotch bumble bee	Coastal CA E to Sierra-Cascade crest & S into Mexico. Open grassland and scrub habitats. Food plant genera include <i>Antirrhinum</i> , <i>Asclepias</i> , <i>Chaenactis</i> , <i>Lupinus</i> , <i>Medicago</i> , <i>Salvia</i> , <i>Phacelia</i> , <i>Clarkia</i> , <i>Dendromecon</i> , <i>Eschscholzia</i> , and <i>Eriogonum</i> . Lives in colonies that may be underground in rodent holes or above ground in rock piles, tree cavities, etc.	Fed: None Calif: CanE, S1S2	Not expected; no or marginal suitable habitat, one documented occurrence in Tahquitz Valley from 1939.
<i>Branchinecta lynchi</i> Vernal pool fairy shrimp	Vernal pools or similar vernal habitats, requires <b>cool water pools (≤50°F to hatch, ≤75°F to survive)</b> ; disjunct locations in Riverside Co. and the Coast Ranges thru Central Valley to Tehama Co., southern Oregon, up to elevation of 1159m.	Fed: THR Calif: SA, S3 MSHCP: AC a	Absent; well above elevation range, no documented occurrences within 5 mi.
<i>Callileptoneta oasa</i> Andreas Canyon leptonetid spider	Mojavean desert scrub. Known only from Andreas Canyon in Palm Springs, Riverside Co.	Fed: None Calif: SA, S1	Absent; no suitable habitat, outside current known range, no documented occurrences within 5 mi.
<i>Dinacoma caseyi</i> <b>Casey's</b> June beetle	Sandy soils in desert wash and Mojavean desert scrub. Females live underground and only come to the surface to mate. Found only in two populations in a small area of southern Palm Springs, Riverside Co.	Fed: END Calif: SA, S1	Absent; no suitable habitat, outside current known range, no documented occurrences within 5 mi.
<i>Euphydryas editha quino</i> Quino checkerspot butterfly	Coastal scrub, open chaparral, juniper woodland, native grassland. Western Riverside Co., southern San Diego Co., Baja. Flight season from mid-Jan to late May. Host plants are dwarf plantain ( <i>Plantago erecta</i> ), purple <b>owl's clover</b> ( <i>Castilleja exserta</i> ), white snapdragon ( <i>Antirrhinum coulterianum</i> ), woolly plantain ( <i>Plantago patagonica</i> ), thread-leaved <b>bird's beak</b> ( <i>Cordylanthus rigidus</i> ).	Fed: END Calif: SA, S1S2 MSHCP: AC	Absent; no suitable habitat, no documented occurrences within 5 mi.
<i>Gonidea angulata</i> Western ridged mussel	Aquatic, freshwater mollusk; primarily creeks and rivers, less often lakes. Originally in most of state, now extirpated from Central & Southern Calif.	Fed: None Calif: SA, S1S2	Absent; no aquatic habitat, no documented occurrences within 5 mi.

Species	Habitat and Distribution	Conservation Status	Potential for Occurrence
<i>Halictus harmonius</i> Harmonius halictid bee	Known only from the foothills of the San Bernardino Mts and possibly also the San Jacinto Mts.	Fed: None Calif: SA, S1	Low; one documented occurrence in Idyllwild from 1933.
<i>Juniperella mirabilis</i> Juniper metallic wood-boring beetle	Larvae develop in juniper in Santa Rosa Mts. in Southern California.	Fed: None Calif: SA, S1	Absent; outside of known geographic range, no juniper host plants, no documented occurrences within 5 mi.
<i>Palaeoxenus dohrni</i> <b>Dohrn's elegant eucnemid</b> beetle	Montane forest consisting of incense cedar and pines. Endemic to California. San Gabriel, San Bernardino, San Jacinto Mountains. Adults observed in May and June.	Fed: None Calif: SA, S3?	Low; potentially suitable habitat, no documented occurrences within 5 mi.
<i>Stenopelmatus cahuilaeensis</i> Coachella Valley Jerusalem cricket	Desert dunes. Found in the large, undulating dunes piled up at the north base of Mt. San Jacinto. Inhabits a small segment of the sand and dune area of the Coachella Valley in the vicinity of Palm Springs.	Fed: None Calif: SA, S1S2	Absent; no suitable habitat, outside current known range, no documented occurrences within 5 mi.
<i>Streptocephalus woottoni</i> Riverside fairy shrimp	Endemic to Western Riverside, Orange, and San Diego counties in areas of tectonic swales/earth slump basins in grassland and coastal sage scrub. Coastal scrub, valley & foothill grassland, vernal pool, wetland. Inhabit seasonally astatic pools filled by winter/spring rains. Hatch in warm water later in the season. Generally restricted to pools greater than 12 inches deep.	Fed: END Calif: SA, S1S2 MSHCP: AC a	Absent; well above elevation range, no documented occurrences within 5 mi.
<b>Amphibians</b>			
<i>Anaxyrus californicus</i> Arroyo toad	Washes & intermittent streams of semi-arid regions, sandy-banked rivers, riparian woodlands, & loose gravel. Southern California to tip of Baja California. Desert pop. along Mojave River.	Fed: END Calif: SSC, S2S3 MSHCP: AC c	Absent; no suitable habitat, no documented occurrences within 5 mi, not observed during surveys.
<i>Ensatina eschscholtzii klauberi</i> Large-blotched salamander	Moist deciduous and evergreen forests, oak woodland, chaparral and well shaded canyons. Most common in areas of woody debris on the forest floor. Peninsular ranges of So. Cal. and eastern San Bern. Mtns. Intergrades with <i>E. e. croceata</i> in the San Bernardino and San Jacinto Mountains.	Fed: None Calif: WL, S3 USFS: S	Low; no or marginal suitable habitat; two documented occurrences within 5 mi.- within 0.4 and 0.7 mi. of site along Strawberry Creek. Not observed during surveys but is secretive.

Species	Habitat and Distribution	Conservation Status	Potential for Occurrence
<i>Rana draytonii</i> California red-legged frog	Lowlands and foothills in or near permanent sources of deep water with dense, shrubby or emergent riparian vegetation. Requires 11-20 weeks of permanent water for larval development. Must have access to estivation habitat.	Fed: THR Calif: SSC, S2S3 MSHCP: AC c	Not expected; no suitable habitat, no documented occurrences within 5 mi. not observed during surveys
<i>Rana muscosa</i> Southern mountain yellow-legged frog	Streams, creeks, and small pools with cool, perennial water. Always encountered within a few feet of water. Tadpoles generally restricted to permanent still water deeper than a meter and may require up to 2 years to complete development.	Fed: END Calif: END, WL, S1 MSHCP: AC c USFS: S	Absent; no suitable habitat, 10 documented occurrences within 5 mi. Nearest occurrence along Strawberry Creek may be extirpated. Site is not within critical habitat.
<i>Spea hammondi</i> Western spadefoot toad	Cismontane woodland, coastal scrub, valley & foothill grassland, vernal pool. Breeds in quiet streams & vernal pools, burrows beneath sand during dry season. W CA, Central Valley to Baja California. From near sea level up to 4,500 ft elev.	Fed: None Calif: SSC, S3 MSHCP: AC	Absent; well above elevation range, no documented occurrences within 5 mi., not observed during surveys.
<b>Reptiles</b>			
<i>Anniella stebbinsi</i> ( <i>Anniella pulchra pulchra</i> ) Southern California legless lizard	Various habitats, mainly shrublands, <6500 ft. elev. Coast Ranges from Bay area to N Baja CA, SW Sierra Nevada, parts of the Central Valley, Transverse & Peninsular Ranges.	Fed: None Calif: SSC, S3	Low; no or marginal suitable habitat, no documented occurrences within 5 mi. Not observed during surveys, but species is fossorial.
<i>Arizona elegans occidentalis</i> California glossy snake	Arid scrub, rocky washes, grasslands, chaparral, often with loose or sandy soils. Patchily distributed from the eastern portion of San Francisco Bay, southern San Joaquin Valley, and the Coast, Transverse, and Peninsular Ranges, south to Baja California. Sea level to <b>7200'</b> elev.	Fed: None Calif: SSC, S2	Not expected; no suitable habitat, no documented occurrences within 5 mi. Not observed during surveys, but is nocturnal.
<i>Aspidoscelis hyperythra</i> Orange-throated whiptail	Low-elevation coastal scrub, chaparral, valley-foothill hardwood, sea level to 1040m. Sandy areas, patches of rock. S CA, west of desert to tip of Baja CA.	Fed: None Calif: WL, S2S3 MSHCP: AC	Absent; no suitable habitat, well above elevation range, no documented occurrences within 5 mi., not observed during surveys.

Species	Habitat and Distribution	Conservation Status	Potential for Occurrence
<i>Aspidoscelis tigris stejnegeri</i> Coastal whiptail	Primarily hot, dry open areas with sparse foliage, chaparral, woodland, riparian; coastal So CA, mostly west of Peninsular Ranges and south of Transverse Ranges, north into Ventura County, below ±7000' elev. and into Baja.	Fed: None Calif: SSC, S3 MSHCP: AC	Low; potentially marginal habitat, no documented occurrences within 5 mi., but included on checklist of sightings at Idyllwild Park. Not observed during surveys.
<i>Charina umbratica</i> Southern rubber boa	Found in a few locales in San Bernardino & San Jacinto Mtn. ranges. Woodland & coniferous forest. Usually found within several hundred meters of water. 5000-9150 ft. elev.	Fed: None Calif: THR, S2S3 MSHCP: NAC f USFS: S	Low; potentially marginal habitat; 11 documented occurrences within 5 mi. not observed during surveys but is secretive.
<i>Crotalus ruber</i> Red-diamond rattlesnake	Desert scrub, thorn scrub, chaparral below 4,000ft. San Bernardino County S through most of Baja California, Mexico.	Fed: None Calif: SSC, S3 MSHCP: AC USFS: S	Absent; no suitable habitat, above elevation range, no documented occurrences within 5 mi., not observed during surveys.
<i>Gopherus agassizii</i> Desert tortoise	Most common in desert scrub, desert wash, and Joshua tree habitats; occurs in almost every desert habitat, 300-1070m elevation. Requires friable soil for burrow and nest construction. Creosote bush habitat with large annual wildflower blooms preferred.	Fed: THR Calif: THR, S2S3	Absent; no suitable habitat, well above elevation range, no documented occurrences within 5 mi. Site is not within critical habitat.
<i>Phrynosoma blainvillii</i> Coast horned lizard	Coastal sage scrub, low elevation chaparral, annual grassland, riparian scrub and woodlands, desert wash, pinyon and juniper woodland, valley and foothill grassland, 0-2438m elevation. SW California to NW Baja California, Mexico.	Fed: None Calif: SSC, S3S4 MSHCP: AC	Not expected; no suitable habitat, five documented occurrences within 5 mi., closest is 2.8 mi. NE in Tahquitz Meadow, not observed during surveys.
<i>Phrynosoma mcallii</i> Flat-tailed horned lizard	Restricted to desert washes and desert flats in central Riverside, eastern San Diego, and Imperial counties. Critical habitat element is fine sand, into which lizards burrow to avoid temperature extremes; requires vegetative cover and ants. Desert dunes, Mojavean and Sonoran desert scrub	Fed: None Calif: SSC, S2 BLM: S	Absent; no suitable habitat, outside known range, no documented occurrences within 5 mi.
<i>Uma inornata</i> Coachella Valley fringe-toed lizard	Desert dunes, desert wash. Limited to sandy areas in the Coachella Valley, Riverside Co. Requires fine, loose, windblown sand (for burrowing), interspersed with hardpan and widely-spaced desert shrubs.	Fed: THR Calif: END, S1	Absent; no suitable habitat, outside known range, no documented occurrences within 5 mi.

Species	Habitat and Distribution	Conservation Status	Potential for Occurrence
Birds			
<i>Accipiter cooperii</i> Cooper's hawk	Cismontane woodland, riparian forest, riparian woodland, upper montane coniferous forest. Forages in open areas over scrublands; California, Mexico, Central America. Nests in trees, often in dense woods.	Fed: None Calif: WL, S4 MSHCP: AC	High (foraging), moderate (nesting); potentially suitable nesting habitat, no documented nesting within 5 mi., multiple eBird records in vicinity, observed in area during surveys.
<i>Agelaius tricolor</i> Tricolored blackbird	Breeds colonially in freshwater marshes, nomadic among marshes and fields in winter; almost completely endemic to Calif.	Fed: BCC Calif: THR, SSC, S1S2 BLM: S MSHCP: AC	Low (foraging), absent (nesting); no suitable habitat, few eBird records in vicinity.
<i>Aimophila ruficeps canescens</i> Southern California rufous-crowned sparrow	Sparse, mixed chaparral, scrub, rocky, brushy slopes. Central California to Baja California.	Fed: None Calif: WL, S3 MSHCP: AC	Not expected (foraging and nesting); no suitable habitat, no documented occurrences within 5 mi., one observation near Idyllwild in eBird.
<i>Aquila chrysaetos</i> Golden eagle	Found in a variety of habitats from sea level to 11,500 feet, rugged open habitats preferred. Large platform nests constructed on secluded cliffs, large trees, and occasionally structures (i.e., electrical transmission towers).	Fed: BGEPA, BCC Calif: FP, WL, S3 BLM: S MSHCP: AC	Not expected (foraging), absent (nesting); no or marginal suitable foraging habitat on site. No eagle nests observed during surveys, avoids human disturbance.
<i>Artemisiospiza belli belli</i> Bell's sage sparrow	Sage scrub and chaparral communities. Nests in chaparral dominated by fairly dense stands of chamise. Found in coastal sage scrub in south of range. Central Washington southward to Baja California, Mexico.	Fed: BCC Calif: WL, S3 MSHCP: AC	Not expected; no suitable habitat. Not observed during surveys.
<i>Baeolophus inornatus</i> Oak titmouse	Open pine or mixed oak-pine forest, juniper woodland, pinyon or juniper mixed with Joshua trees. Not migratory. CNDDDB only tracks nesting.	Fed: BCC Calif: SA, S4	High (foraging and nesting); observed in area during survey, suitable nesting habitat present, many eBird records in area including adjacent to site.

Species	Habitat and Distribution	Conservation Status	Potential for Occurrence
<i>Calypte costae</i> <b>Costa's hummingbird</b>	Desert and coastal scrub and chaparral in desert, semi-desert and mountain foothills and seasonally in mountains, adjacent open meadows and gardens. Found in NV, UT, AZ, CA and Mexico. Year-round resident in southern CA. CNDDDB only tracks nesting.	Fed: BCC Calif: SA, S4	High (foraging and nesting); suitable habitat, a few eBird records in area including near the site.
<i>Cypseloides niger</i> Black swift	Coastal belt of Santa Cruz and Monterey counties; central & southern Sierra Nevada; San Bernardino & San Jacinto mountains. Breeds in small colonies on cliffs behind or adjacent to waterfalls in deep canyons and sea-bluffs above the surf; forages widely.	Fed: BCC Calif: SSC, S2 MSHCP: AC	Low (foraging), absent (nesting); marginal foraging habitat, no nesting habitat, 6 documented occurrences within 5 mi., a few eBird records in vicinity.
<i>Dryobates (Picoides) albolarvatus</i> White-headed woodpecker	Montane mixed coniferous forest dominated by pines. Sierra Nevada, Cascade, Klamath, Transverse, and Peninsular Ranges, and Warner Mts. Prefers semi-open areas with large mature trees and snags. Not tracked in the CNDDDB.	Fed: BCC Calif: none	High (foraging and nesting); suitable habitat, large numbers of eBird observations in area including immediately adjacent to the site.
<i>Dryobates (Picoides) nuttallii</i> <b>Nuttall's woodpecker</b>	Found in low elevation riparian and oak woodlands; rarely in conifers. Central Valley, Transverse and Peninsular Ranges, Coast Ranges north to Sonoma Co., lower portions of the Cascade Range and Sierra Nevada. Year-round resident throughout coastal mountains of CA.	Fed: BCC Calif: None	Occurs (foraging), high (nesting); observed immediately adjacent to the site during survey, suitable nesting habitat present.
<i>Empidonax traillii extimus</i> Southwestern willow flycatcher	Dense riparian forests, wet mountain meadow systems with standing water for at least part of the breeding season (May to July) & with ample numbers of willow & other associated trees & shrubs. Rare & local in S CA. SW US & N Baja California.	Fed: END Calif: END, S1 MSHCP: AC a	Absent (foraging and nesting); no suitable habitat, no documented occurrences within 5 mi.
<i>Falco mexicanus</i> Prairie falcon	Inhabits dry, open terrain, either level or hilly. Breeding sites located on cliffs. Forages far afield, even to marshlands and ocean shores. Desert scrub, valley and foothill grassland. CNDDDB only tracks nesting.	Fed: BCC Calif: WL, S4 MSHCP: AC	Low (foraging), absent (nesting); no or marginal suitable foraging habitat, no nesting habitat, one documented occurrence (nesting) within 5 mi. Few eBird records in area.



Species	Habitat and Distribution	Conservation Status	Potential for Occurrence
<i>Haliaeetus leucocephalus</i> Bald eagle	Breed in large trees, usually near major rivers or lakes. Winters more widely. Wide but scattered distribution in N America, esp. coastal regions.	Fed: Delisted, BGEPA, BCC Calif: END, FP, S3 BLM: S USFS: S MSHCP: AC	Absent (foraging and nesting); no suitable habitat.
<i>Melanerpes lewis</i> <b>Lewis's woodpecker</b>	Breeds in open forest and woodland with an open canopy and brushy understory. Requires dead trees for nest cavities. Open ponderosa pine forest, open riparian woodland, logged or burned pine forest, oak woodlands, orchards, pinyon-juniper woodland, pine and fir forest, agricultural areas. CNDDDB only tracks nesting.	Fed: BCC Calif: SA, S4	High (foraging), not expected (nesting); suitable habitat, several eBird records in area including adjacent to the site, rarely breeds this far south in California.
<i>Polioptila californica californica</i> Coastal California gnatcatcher	Sage scrub, also chaparral, grasslands, riparian adjacent to or mixed with sage scrub. S Ventura Co. to LA, Orange, Riv., San Bern., San D. Cos into Baja CA, Mexico.	Fed: THR Calif: SSC, S2 MSHCP: AC	Absent (foraging and nesting); no suitable habitat, well above elevation range.
<i>Polioptila melanura</i> Black-tailed gnatcatcher	Primarily inhabits wooded desert wash habitats; also occurs in desert scrub habitat, especially in winter. Nests in desert washes containing mesquite, palo verde, ironwood, acacia; absent from areas where salt cedar introduced. Mojavean and Sonoran desert scrub.	Fed: None Calif: WL, S3S4	Absent (foraging and nesting); no suitable habitat.
<i>Progne subis</i> Purple martin	Inhabits woodlands, low elevation coniferous forest of Douglas-fir, ponderosa pine, and Monterey pine. Nests in old woodpecker cavities mostly; also in human-made structures. Nest often located in tall, isolated tree/snag. Broadleaved upland forest, lower montane coniferous forest. CNDDDB only tracks nesting.	Fed: None Calif: SSC, S3 MSHCP: AC	Low (foraging and nesting); suitable habitat, one documented nest within 5 mi., few eBird observations in area (from 1970s-1980s).
<i>Psiloscops flammeolus</i> Flammulated owl	Need montane forests with some understory brush for breeding. In California the breeding range is closely associated with the presence of ponderosa pine and Jeffrey pine. Lower montane and subalpine coniferous forest. CNDDDB only tracks nesting.	Fed: BCC Calif: SA, S2S4	Low (foraging), not expected (nesting); no or marginal habitat, no documented occurrences (nesting) within 5 mi., a few eBird observations, mainly near Mt. San Jacinto.

Species	Habitat and Distribution	Conservation Status	Potential for Occurrence
<i>Selasphorus rufus</i> Rufous hummingbird	Breeds in open or shrubby areas, forest openings, yards and parks. Sometimes forests, thickets, swamps, meadows. Elev. range 0-6000 ft. Migrating birds can be up to 12,600 ft. Wintering birds in oak, pine, and juniper woodlands. Found in Western US and Canada. Generally migrates through southern CA during pre-breeding migratory season (mid-Feb to mid-May). CNDDDB only tracks nesting.	Fed: BCC Calif: SA, S1S2	High (foraging), absent (nesting); potentially suitable foraging habitat, outside of breeding range, several eBird records in area including immediately adjacent to site.
<i>Setophaga petechia</i> Yellow warbler	Migrant and summer resident in southern CA. Riparian, including willow, cottonwood, sycamore, alder, aspen for nesting & foraging, also conifer forest. CNDDDB only tracks nesting.	Fed: BCC Calif: SSC, S3S4	High (foraging and nesting); potentially suitable habitat, no documented nests within 5 mi., several eBird observations in and near Idyllwild.
<i>Spinus lawrencei</i> Lawrence's goldfinch	Summer breeder, may overwinter. Coastal side of southern and central CA, western edge of southern deserts, east side of Central Valley into northern CA, Colorado River, SW US and northern Mex. Valley foothill hardwood and hardwood-conifer, desert riparian, pinyon juniper, palm oasis, lower montane. Nests in oaks, conifers. CNDDDB only tracks nesting.	Fed: BCC Calif: SA, S3S4	High (foraging and nesting); potentially suitable habitat, no documented nests within 5 mi., several eBird observations in and near Idyllwild.
<i>Spizella atrogularis</i> Black-chinned sparrow	Chaparral, sagebrush, arid scrublands, and brushy hillsides, 0-2700m elevation. Present during breeding season only in California. Not tracked in the CNDDDB.	Fed: BCC Calif: None	Moderate (foraging and nesting); marginal habitat, many eBird records in vicinity.
<i>Strix occidentalis occidentalis</i> California spotted owl	Hardwood and mixed conifer/hardwood forests at mid to high elevations, oak and riparian woodlands at lower elevations with large old trees and snags, dense canopies, multiple canopy layers, and downed woody debris. Nests in tree cavities. Foraging habitat also includes more open stands.	Fed: BCC Calif: SSC, S3 MSHCP: NAC f USFS: S BLM: S	Low (foraging), not expected (nesting); several territories within 5 mi. of the site but marginal habitat and ongoing human disturbance.
<i>Toxostoma crissale</i> Crissal thrasher	Resident of southeastern deserts in desert riparian and desert wash habitats. Nests in dense vegetation along streams/washes; mesquite, screwbean mesquite, ironwood, catclaw, acacia, arrowweed, willow.	Fed: None Calif: SSC, S3	Absent (nesting and foraging); no suitable habitat, no documented occurrences within 5 mi., no eBird records in vicinity.
<i>Toxostoma lecontei</i> Le Conte's thrasher	Desert resident; primarily of open desert wash, desert scrub, alkali desert scrub, and desert succulent scrub habitats. Commonly nests in a dense, spiny shrub or densely branched cactus in desert wash habitat, usually 2-8 feet above ground.	Fed: BCC Calif: SSC*, S3 *San Joaquin population only	Absent (nesting and foraging); no suitable habitat, no documented occurrences within 5 mi., no eBird records in vicinity.

Species	Habitat and Distribution	Conservation Status	Potential for Occurrence
<i>Vireo bellii pusillus</i> Least Bell's vireo	Riparian woodlands, bottomlands. N Mex. & Baja CA into S CA & the S mid-western US.	Fed: END Calif: END, S2 MSHCP: AC a	Absent (nesting and foraging); no suitable habitat, no documented occurrences within 5 mi.
<b>Mammals</b>			
<i>Antrozous pallidus</i> Pallid bat	Rock outcrops of shrublands, ≤ 6000' elevation; southwest North America to interior Oregon and Washington; hibernates in winter. Locally common at low elevations in grasslands, shrublands, woodlands, and forests. Most common in open, dry habitats with rocky areas for roosting. Forages over open ground. Roosts in caves, crevices, mines, hollow trees, buildings. Very sensitive to disturbance of roosting sites.	Fed: None Calif: SSC, S3 USFS: S	Low (foraging), not expected (roosting); marginal potential foraging habitat, roosting not expected in proximity to human disturbance, one documented occurrence within 5 mi. from 1994 mapped in general vicinity of Idyllwild.
<i>Bassariscus astutus</i> Ringtail or ring-tailed cat	Nocturnal, widely distributed; various riparian habitats and brush stands of most forest and shrub habitats at low to middle elevations, usually not more than 0.6 mi. from permanent water; primarily carnivorous; rocky habitats preferred, avoids urbanized areas. Suitable habitat is a mixture of forest and shrubland in close association with rocky areas or riparian habitats. Not tracked in the CNDDB.	Fed: None Calif: FP	Low; potentially suitable habitat but avoids human disturbance.
<i>Chaetodipus californicus femoralis</i> Dulzura pocket mouse	Variety of habitats including coastal scrub, chaparral & grassland. Attracted to grass-chaparral edges. Chaparral, coastal scrub, valley and foothill grassland.	Fed: None Calif: SSC, S3	Not expected: no suitable habitat, no documented occurrences within 5 mi.
<i>Chaetodipus fallax pallidus</i> Pallid San Diego pocket mouse	Sandy, herbaceous areas, usually in association with rocks or coarse gravel, desert wash, desert scrub, pinyon juniper, chaparral. San Diego, Riv, Imperial, LA, San Bern cos.	Fed: None Calif: SSC, S3S4	Not expected: no suitable habitat, no documented occurrences within 5 mi.
<i>Corynorhinus townsendii</i> Townsend's big-eared bat	Throughout California in a wide variety of habitats. Most common in mesic sites. Roosts in the open, hanging from walls and ceilings. Roosting sites limiting. Extremely sensitive to human disturbance. Broadleaved upland forest, chaparral, chenopod scrub, Joshua tree woodland, lower and upper montane coniferous forest, meadow and seep, Mojavean and Sonoran desert scrub, riparian forest/woodland, Sonoran thorn woodland, valley and foothill grassland.	Fed: None Calif: SSC, S2 USFS: S BLM: S	Low (foraging), not expected (roosting); suitable habitat but human disturbance, two documented occurrences within 5 mi.

Species	Habitat and Distribution	Conservation Status	Potential for Occurrence
<i>Dipodomys merriami collinus</i> Earthquake Merriam's kangaroo rat	Known only from San Diego & Riverside Co. Associated with Riversidean sage scrub, chaparral, and non-native grassland. Needs sandy loam substrates for digging of burrows.	Fed: None Calif: SA, S1S2 MSHCP: AC c	Not expected; no suitable habitat, no documented occurrences within 5 mi.
<i>Dipodomys merriami parvus</i> San Bernardino kangaroo rat	Alluvial floodplains and adjacent upland habitats within the San Bernardino, Menifee, and San Jacinto valleys, Riversidean alluvial fan sage scrub.	Fed: END Calif: CanE, SSC, S1 MSHCP: AC c	Absent; no suitable habitat, outside known range. Site is not within critical habitat.
<i>Dipodomys stephensi</i> Stephens' kangaroo rat	Sparse, gently sloping grassland, sometimes at margins of cultivated or disturbed lands; prefers grassland dominated by forbs rather than annual grasses, prefers sparse perennial vegetation; firm soil for burrowing (not too hard or too sandy); may use abandoned gopher burrows; W Riverside Co. and adjacent San Diego Co. San Bernardino County occurrences extirpated.	Fed: END Calif: THR, S2 MSHCP: AC	Absent; no suitable habitat, outside known range.
<i>Glaucomys oregonensis (sabrinus) californicus</i> San Bernardino flying squirrel	Mature mixed conifer forest (white fir, Jeffrey pine, & black oak) with large trees & snags, closed canopy, downed woody debris, & riparian areas. 4000-8500 ft. elev. San Bernardino & San Jacinto Mt. Ranges (may be extirpated in the San Jacinto Mts.).	Fed: None Calif: SSC, S1S2 MSHCP: NAC e	Low; potentially suitable habitat but may be extirpated in San Jacinto Mts, one documented occurrence within 5 mi., near Idyllwild from 1919.
<i>Lasiurus xanthinus</i> Western yellow bat	Valley foothill riparian, desert riparian, desert wash, palm oasis. Roosts in trees, particularly palms. Forages over water and among trees. Desert regions of the SW US. Distributed in S CA, AZ, NM, & TX, into Mexico.	Fed: None Calif: SSC, S3	Not expected (foraging and roosting); no suitable habitat, no documented occurrences within 5 mi.
<i>Lepus californicus bennettii</i> San Diego black-tailed jackrabbit	Chaparral, coastal, or Riversidean sage scrub with adjacent open grassland. Los Angeles Co. S to San Quintin, Baja California, Mexico.	Fed: None Calif: SSC, S3S4 MSHCP: AC	Absent; no suitable habitat, outside known range, no documented occurrences within 5 mi.
<i>Myotis yumanensis</i> Yuma myotis	Variety of habitats, optimal habitat is open forest with water sources over which to feed. Distribution is closely tied to bodies of water. Widespread in CA except for deserts. Elev. 0-11,000 ft but rare over 8,000 ft. Feeds over ponds and streams. Roosts in buildings, mines, caves, or crevices, under bridges. Hibernates in winter.	Fed: None Calif: SA, S4	Not expected (foraging and roosting); potentially suitable habitat but no open water nearby, two documented occurrences within 5 mi.

Species	Habitat and Distribution	Conservation Status	Potential for Occurrence
<i>Neotamias speciosus speciosus</i> Lodgepole chipmunk	Summits of isolated Piute, San Bernardino, & San Jacinto mountains. Usually found in open-canopy forests. Habitat is usually lodgepole pine forests in the San Bernardino Mts & chinquapin slopes in the San Jacinto Mts.	Fed: None Calif: SA, S2S3	Not expected: no suitable habitat, three documented occurrences within 5 mi. from 1908, 1916, 1954.
<i>Neotoma lepida intermedia</i> San Diego desert woodrat	Arid shrublands, rocky outcrops, & crevices. Cismontane CA., San Luis Obispo to San Diego Co. & NW Baja California. 0-7000 ft. elev. Variety of shrub and desert habitats, primarily associated with rock outcroppings, boulders, cacti, or areas of dense undergrowth. Constructs elaborate middens of sticks and other materials.	Fed: None Calif: SSC, S3S4 MSHCP: AC	Absent; no suitable habitat, no documented occurrences within 5 mi. No middens observed during surveys.
<i>Nyctinomops femorosaccus</i> Pocketed free-tailed bat	Deserts & arid lowlands, pinyon juniper woodlands, desert scrub, riparian scrub, Joshua tree woodland, rocky areas with high cliffs. E Riverside & San Diego Cos. and Imperial Co., through SW US, Baja California, mainland Mexico. Roost mainly in crevices of high cliffs. Few records in So CA. Prefers rocky desert areas with high cliffs or rock outcrops. Feeds over ponds, streams, and arid desert.	Fed: None Calif: SSC, S3	Absent (foraging and roosting): no suitable habitat, no documented occurrences within 5 mi.
<i>Nyctinomops macrotis</i> Big free-tailed bat	Low-lying arid areas in Southern California. Needs high cliffs or rocky outcrops for roosting sites. Feeds principally on large moths.	Fed: None Calif: SSC, S3	Absent (foraging and roosting): no suitable habitat, no documented occurrences within 5 mi.
<i>Onychomys torridus ramona</i> Southern grasshopper mouse	Nocturnal, active year round. Desert scrub, coastal scrub, mixed chaparral, sagebrush, especially scrub habitats with friable soil, prefers low to moderate shrub cover. LA through San Diego counties and northwest Baja.	Fed: None Calif: SSC, S3	Absent; no suitable habitat, no documented occurrences within 5 mi.
<i>Ovis canadensis nelson pop 2</i> Peninsular bighorn sheep	Eastern slopes of the Peninsular Ranges below 4,600 ft elevation. This DPS of the subspecies inhabits the Peninsular Ranges in southern California from the San Jacinto Mountains south to the US-Mexico International Border. Optimal habitat includes steep walled canyons and ridges bisected by rocky or sandy washes, with available water. Alpine, alpine dwarf scrub, chaparral, chenopod scrub, Mojavean and Sonoran desert scrub, montane dwarf scrub, pinyon juniper woodlands, riparian woodland.	Fed: END Calif: THR, FP, S1	Absent; no suitable habitat, no documented occurrences within 5 mi.
<i>Perognathus longimembris brevinasus</i> Los Angeles pocket mouse	Nocturnal, active Apr-Aug. Annual grassland, sage scrub, alluvial sage scrub. S California from Rancho Cucamonga (W boundary), San Gorgonio (E), Aguanga & Oak Grove, San Diego (S). Open ground with fine, sandy soils.	Fed: None Calif: SSC, S1S2 MSHCP: AC c	Absent; no suitable habitat, no documented occurrences within 5 mi.

Species	Habitat and Distribution	Conservation Status	Potential for Occurrence
<i>Puma concolor</i> Mountain lion	Various habitats, large home ranges. Natal dens often in rocky outcrops or dense vegetation.	Fed: None Calif: CAN MSHCP: AC	High; suitable habitat in surrounding area, incidental reports in Idyllwild area.
<i>Taxidea taxus</i> American badger	Mountains, deserts, interior valleys where burrowing animals are available as prey & soil permits digging. Throughout Central & W North America.	Fed: None Calif: SSC, S3	Not expected; potentially marginal habitat, no potential burrows or diggings observed during survey.
<i>Xerospermophilus tereticaudus chlorus</i> Palm Springs round-tailed ground squirrel	Restricted to the Coachella Valley. Prefers desert succulent scrub, desert wash, desert scrub, alkali scrub, and levees. Prefers open, flat, grassy areas in fine-textured, sandy soil. Density correlated with winter rainfall. Chenopod scrub, Sonoran desert scrub	Fed: None Calif: SSC, S2 BLM: S	Absent; no suitable habitat, outside known range.

References: CDFW (2021b, 2021c), USFWS (2021), Dudek (2003), RCA (2020), eBird (2021).

“Documented occurrences” refers to species occurrences in the California Natural Diversity Database (CNDDDB) unless otherwise noted. For plant species that are not tracked in the CNDDDB, records from the Consortium of California Herbaria (CCH) may be used. eBird (eBird.org) is an online database of bird distribution and abundance sponsored by the Cornell Laboratory of Ornithology and compiled from observations submitted by citizen scientists. eBird records of bird observations are noted but should be interpreted with caution. eBird records “in vicinity” is defined as records within about a 5-mile radius of the site.

Federal designations: (Federal Endangered Species Act, U. S. Fish and Wildlife Service):

- END: Federally listed, endangered; an animal or plant in danger of extinction within the foreseeable future throughout all or a significant portion of its range.
- THR: Federally listed, threatened; an animal or plant which is likely to become an Endangered species within the foreseeable future throughout all or a significant portion of its range.
- Cand: Candidate for federal listing as threatened or endangered; species that has been studied by the U.S. Fish and Wildlife Service, and the Service has concluded that it should be proposed for addition to the Federal Endangered and Threatened species list.
- Prop: Proposed for federal listing as Endangered or Threatened under Section 4 of the Endangered Species Act.
- Delisted: Previously federally listed as endangered or threatened, but is no longer listed (e.g., due to recovery).
- None: The species has no federal conservation status.
- BGEPA: Federal Bald and Golden Eagle Protection Act; protects bald and golden eagles.
- BCC: USFWS Bird of Conservation Concern; migratory and non-migratory bird species (beyond those already designated as Federally threatened or endangered) that represent USFWS highest conservation priorities.

State designations: (California Endangered Species Act, California Dept. of Fish and Wildlife)

- END: State listed, endangered; a native species or subspecies of a bird, mammal, fish, amphibian, reptile, or plant which is in serious danger of becoming extinct throughout all, or a significant portion, of its range due to one or more causes, including loss of habitat, change in habitat, overexploitation, predation, competition, or disease.
- CanE: Candidate Endangered; a native species or subspecies of a bird, mammal, fish, amphibian, reptile, or plant that the Fish and Game Commission has formally noticed as being under review by the Department of Fish and Wildlife for addition to the list of endangered species, or a species for which the commission has published a notice of proposed regulation to add the species to the list of endangered species.
- CanF: Candidate Threatened; a native species or subspecies of a bird, mammal, fish, amphibian, reptile, or plant that the Fish and Game Commission has formally noticed as being under review by the Department of Fish and Wildlife for addition to the list of threatened species, or a species for which the commission has published a notice of proposed regulation to add the species to the list of threatened species.

THR:	State listed, threatened; a native species or subspecies of a bird, mammal, fish, amphibian, reptile, or plant that, although not presently threatened with extinction, is likely to become an endangered species in the foreseeable future in the absence of special protection and management efforts.
RARE:	State listed as rare: a native plant species, subspecies, or variety when, although not presently threatened with extinction, it is in such small numbers throughout its range that it may become endangered if its present environment worsens (Native Plant Protection Act of 1977).
SSC:	CDFW Species of Special Concern: vertebrate species of concern due to declining population levels, limited ranges, and/or continuing threats that have made them vulnerable to extinction.
FP:	Fully Protected: California Fish and Game Code states that Fully Protected species "...may not be taken or possessed at any time and no provision of this code or any other law shall be construed to authorize the issuance of permits or licenses to take any fully protected" species, although take may be authorized for necessary scientific research.
Delisted:	Previously state listed as threatened or endangered, but no longer listed (e.g., due to recovery).
SA:	CDFW Special Animal; wildlife of state conservation concern.
SH:	All California sites are historical.
PFB:	Protected Fur-bearing Mammal under Title 14 of the California Code of Regulations.
None:	The species has no state conservation status.

State Rank (S Rank): A reflection of the condition and imperilment of an element (plant, animal, vegetation community) throughout its range within the state. The S ranks are determined through a combination of rarity, threat, and trend factors, weighted more heavily on the rarity factors. Where correct category is uncertain, the S rank includes two categories or a question mark. Older ranks, which need to be updated, may still contain a decimal "threat" rank of .1, .2, or .3, where .1 indicates very threatened status, .2 indicates moderate threat, and .3 indicates few or no current known threats.

S1:	Critically imperiled; imperiled in the state because of extreme rarity or some factor(s) making it especially vulnerable to extirpation from the state.
S2:	Imperiled; imperiled in the state because of rarity due to very restricted range, very few populations, steep declines, or other factors making it very vulnerable to extirpation from the state or nation.
S3:	Vulnerable; vulnerable in the state due to a restricted range, relatively few populations, recent and widespread declines, or other factors making it vulnerable to extirpation. S4: Apparently secure; uncommon but not rare, some cause for long-term concern due to declines or other factors.
S5:	Secure; common, widespread, and abundant in the state.
SH:	Possibly extirpated; species or community occurred historically in the state, and there is some possibility that it may be rediscovered. The element has not been seen for at least 20 years, but suitable habitat still exists.
SX:	Presumed extirpated; species or community is believed to be extirpated from the state.

California Rare Plant Rank (CRPR): The *California Rare Plant Ranks* are a ranking system originally developed by the California Native Plant Society (CNPS) to better define and categorize rarity in California's plants. These ranks were previously known as the CNPS lists but were renamed to the *California Rare Plant Ranks* to better reflect the joint effort among the CNPS, the CDFW, and a wide range of botanical experts, who work together to assign a rarity ranking.

1A:	Plants presumed extinct in California and rare/extinct elsewhere.
1B:	Plants rare, threatened, or endangered in California and elsewhere.
2A:	Plants presumed extirpated in California, but more common elsewhere.
2B:	Plants rare, threatened, or endangered in California but more common elsewhere.
3:	Plants about which we need more information.
4:	Plants of limited distribution.
X.1:	Extension to CRPR (e.g., 1B.1); seriously threatened in California.
X.2:	Extension to CRPR (e.g., 1B.2); fairly threatened in California.
X.3:	Extension to CRPR (e.g., 1B.3); not very threatened in California.
CBR:	Considered but rejected.

U.S. Forest Service (USFS) designation:

S:	Sensitive; plant and animal species identified by a regional forester that are not listed or proposed for listing under the Federal Endangered Species Act for which population viability is a concern, as evidenced by
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significant current or predicted downward trends in population numbers or density, or significant current or predicted downward trends **in habitat capability that would reduce a species' existing distribution.**

Bureau of Land Management (BLM designation):

- S: Sensitive; plant and animal species requiring special management consideration to promote their conservation and reduce the likelihood for future listing under the Federal Endangered Species Act. Includes species designated as sensitive by the BLM State Director and all Federal Candidate species and Federal delisted species in the 5 years following delisting. Sensitive species are managed as special status species.

Western Riverside County Multiple Species Habitat Conservation Plan: Applied to species that are covered under state and federal permits for the MSHCP.

NAC: Species Not Adequately Conserved

AC: Species Adequately Conserved

- (a) Surveys may be required for these species as part of wetlands mapping as described in Section 6.1.2 of the MSHCP.
- (b) Surveys may be required for these species within Narrow Endemic Plant Species survey area as described in Section 6.1.3 of the MSHCP.
- (c) Surveys may be required for these species within locations shown on survey maps as described in Section 6.3.2 of the MSHCP.
- (d) Surveys may be required for these species within Criteria Area as described in Section 6.3.2 of the MSHCP.
- (e) These Covered Species will be considered Adequately Conserved when conservation requirements identified in species-specific conservation objectives have been met. Species-specific conservation objectives for these species are presented in Section 9.0 of the MSHCP. Please refer to Table 9-3 of the MSHCP for specific conservation objectives that must be met for these species prior to including them on the list of Covered Species Adequately Conserved.
- (f) These Covered Species will be considered Adequately Conserved when a Memorandum of Understanding is executed with the U.S. Forest Service that addresses management for these species on Forest Service Land. Refer to Table 9-3 of the MSHCP.

No entry: Not a Covered Species

Definitions of occurrence probability:

These definitions provide general guidance. Classifications for individual species may be modified based on biologists' experience and expert opinion.

*Occurs:* Species was detected during surveys or previously documented on the Project site or adjacent areas.

*High:* Species documented in the vicinity (i.e., within 5 miles) of the Project site and suitable habitat is present, but species not detected during surveys.

*Moderate:* Species documented in the vicinity of the Project site or suitable habitat present and site is within geographic and elevational range of the species.

*Low:* Species not documented in the vicinity of the Project site or suitable habitat is marginal.

*Not Expected:* Species not documented in the vicinity of the Project site and suitable habitat marginal or absent, or site is not within geographic and elevational range of the species.

*Absent:* No potential for the species to occur due to lack of habitat, geographic or elevation range, species life history, survey results, etc.

*Unknown:* No focused surveys have been performed in the region, and the species' distribution and habitat are poorly known.



**APPENDIX C: SITE PHOTOGRAPHS**



Existing residential units and paved parking lot on west side of Parcel 028, looking east (11.01.2019).



Southwest area of the Parcel 028, adjacent to Highway 243, looking north (11.01.2019).



View of the east side of Parcel 028 from Oakwood Street, looking east. Paved driveway goes through the parcel with disturbed vehicle parking areas on the right and left (11.01.2019).



Vehicle parking area behind (to the east) of the existing units on Parcel 028, looking southwest (11.01.2019).



View of the southeastern corner of Parcel 028, looking south (11.01.2019).



Looking north along the back (east side) of existing units on Parcel 028 (11.01.2019).



Southeast corner of Parcel 031, looking west. Two small brown structures in center are on the site (07.07.2020)



Southeast corner of Parcel 031, looking northwest. Adjacent development in background (07.07.2020).



Northeast corner of Parcel 031, looking south-southeast. Adjacent development in background (07.07.2020).



Northeast corner of Parcel 031, looking southwest. Trunk of black oak on left. Adjacent development in background (07.07.2020).



Northeast portion of Parcel 031, looking east (05.12.2021).



Central portion of Parcel 031, looking northwest (05.12.2021).



Western portion of Parcel 028 along Highway 243, looking southwest (04.19.2021).



Eastern portion of Parcel 028, looking southeast (04.19.2021).



Johnstons rockcress in flower at reference site EO#5 (04.19.2021).



Close up of flowers of Johnstons rockcress at reference site (04.19.2021).



Munz's mariposa lilies in flower at reference site EO#51 (06.21.2021).



Close up of flowers of Munz's mariposa lily at reference site EO#51 (04.19.2021).



San Jacinto Mountains bedstraw in flower at reference site EO#13 (06.29.2020).



San Jacinto Mountains bedstraw in flower at reference site EO#13 (06.29.2020).

## **APPENDIX D: RIVERSIDE COUNTY DOCUMENTATION**

### Certification

Certification: I hereby certify that the statements furnished above and in the attached exhibits present the data and information required for this biological evaluation, and that the facts, statements, and information presented are true and correct to the best of my knowledge and belief.

DATE: June 28, 2021 SIGNED: \_\_\_\_\_  
Leslie Irish, Principal, L&L Environmental, Inc.  
909-335-9897

1) Fieldwork Performed By:  
Guy Bruyea  
Name

2) Fieldwork Performed By:  
Leslie Irish  
Name

3) Fieldwork Performed By:  
\_\_\_\_\_  
Name

4) Fieldwork Performed By:  
\_\_\_\_\_  
Name

5) Fieldwork Performed By:  
\_\_\_\_\_  
Name

6) Fieldwork Performed By:  
\_\_\_\_\_  
Name

Check here  if adding any additional names/signatures below or on other side of page.

## BIOLOGICAL REPORT SUMMARY SHEET

Applicant Name: <u>WSCS Design</u> Assessor's Parcel Number(s): <u>563-250-017, 563-250-028, 563-250-031</u> Section, Township and Range: <u>Section 7, Township 5 South, Range 3 East</u> Building and Safety Log Number: _____ Case Number: CUP190065 _____ Lot/Parcel _____ EA Number _____
--

MARK ITEM(S) SURVEYED FOR	SPECIES or ENVIRONMENTAL ISSUE of CONCERN	(Mark Yes, No, or N/A regarding species findings on the referenced site)		
		Yes	No	n/a
	Arroyo Southwestern Toad			n/a
<b>X</b>	Blue-line Stream(s)		No	
	Burrowing Owl			n/a
	Coachella Valley Fringed-toed Lizard			n/a
	Coastal California Gnatcatcher			n/a
<b>X</b>	Coastal Sage Scrub		No	
	Delhi Sands Flower-loving Fly			n/a
	Desert Pupfish			n/a
	Desert Slender Salamander			n/a
	Desert Tortoise			n/a
	Flat-tailed Horned Lizard			n/a
<b>X</b>	Least Bell's Vireo (potential habitat)		No	
<b>X</b>	Oak Woodlands (mixed conifer/oak woodland)	Yes		
	Quino Checkerspot Butterfly			n/a
<b>X</b>	Riverside Fairy Shrimp (habitat)		No	
	Santa Ana River Woollystar			n/a
	San Bernardino Kangaroo Rat			n/a
	Slender-horned Spineflower			n/a
	Stephens' Kangaroo Rat			n/a
<b>X</b>	Vernal Pools		No	
<b>X</b>	MSHCP Riparian/Riverine		No	

MARK ITEM(S) SURVEYED FOR	SPECIES or ENVIRONMENTAL ISSUE of CONCERN	(Mark Yes, No, or N/A regarding species findings on the referenced site)		
X	Mountain yellow-legged frog (habitat)		No	
X	Nuttall's woodpecker	Yes		
X	Johnston's rockcress		No	
X	Munz's mariposa lily		No	
X	San Jacinto Mts. bedstraw		No	
	Other			n/a

Species of concern shall be any unique, rare, endangered, or threatened species. It shall include species used to delineate wetlands and riparian corridors. It shall also include any hosts, perching, or food plants used by any animals listed as rare, endangered, threatened, or candidate species by either state, or federal regulations, or for Riverside County as listed by the California Department of Fish and Game Natural Diversity Data Base (CNDDB).

I declare under penalty of perjury that the information provided on this summary sheet is in accordance with the information provided in the biological report or habitat assessment.

\_\_\_\_\_  
**L & L Environmental, Inc.**  
 Signature and Company Name

\_\_\_\_\_  
**June 28, 2021**  
 Date

\_\_\_\_\_  
 10(a) Permit Number (if applicable)

\_\_\_\_\_  
 Permit Expiration Date

<i>County Use Only</i>
Received By: _____ Date: _____
PD-B# _____



**LEVEL OF SIGNIFICANCE CHECKLIST**  
**For Biological Resources**  
 (Submit two copies to the County)

Case Number: \_CUP190065\_ Lot/Parcel No. \_\_\_\_\_ EA Number \_\_\_\_\_

Assessor's Parcel Number(s): 563-250-017, 563-250-028, 563-250-031

Date: June 28, 2021

**Biological Resources:** (Check the level of impact that applies to the following questions.)

	Potentially Significant Impact	Less than Significant Impact with Mitigation Incorporated	Less than Significant Impact	No Impact
<b>a) Conflict with the provisions of an adopted Habitat Conservation Plan, Natural Conservation Community Plan, or other approved local, regional, or state conservation plan?</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>b) Have a substantial adverse effect, either directly or through habitat modifications, on any endangered, or threatened species, as listed in Title 14 of the California Code of Regulations (Sections 670.2 or 670.5) or in Title 50, Code of Federal Regulations (Sections 17.11 or 17.12)?</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>c) Have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Game, or U. S. Wildlife Service?</b>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>d) Interfere substantially with the movement of any native resident or migratory fish or wildlife species, or with established native resident migratory wildlife corridors, or impede the use of native wildlife nursery sites?</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

**LEVEL OF SIGNIFICANCE CHECKLIST  
For Biological Resources**  
(Submit two copies to the County)

e) Have a substantial adverse effect on any riparian habitat, or other sensitive natural community identified in local or regional plans, policies, regulations, or by the California Department of Fish and Game, or the U. S. Fish and Wildlife Service?

f) Have a substantial adverse effect on federally protected wetlands, as defined by Section 404 of the Clean Water Act (including, but not limited to, marsh, vernal pools, coastal, etc.) through direct removal, filling, hydrological interruption)

g) Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance?

**Findings of Fact:**

- The Jeffrey pine forest on the site is not a sensitive vegetation community.
- Narrow endemic plant species Johnston's rockcress, San Jacinto Mountains bedstraw, and Munz's mariposa lily are absent from the site.
- Native oaks and other native trees are present and will be impacted under the current site plan.
- Special status plants known from the region have a low potential for occurrence or are not expected to occur.
- One species status wildlife species observed on the site, Nuttall's woodpecker. Cooper's hawk and oak titmouse observed on adjacent parcel. Most special status wildlife species have low potential for occurrence or are not expected to occur. A few bird species have moderate or high potential for occurrence.
- San Bernardino flying squirrel, California spotted owl, and southern rubber boa have a low potential for occurrence. Mountain lion has a high potential to move through or forage on the site.
- There is no suitable habitat for listed fairy shrimp or riparian birds.
- There is no perennial aquatic habitat on the Project site and mountain yellow-legged frog is considered absent.
- There is suitable habitat for nesting birds, including raptors, on the site.

**Proposed Mitigation:**

- Nesting bird clearance survey prior to the start of any vegetation or ground disturbance during nesting season.
- Prepare and implement an Oak Tree Habitat Mitigation and Monitoring Plan if required.
- Secure permit for removal of native trees and treat stumps and slash as required.

**Monitoring Recommended:**

-None

**Source:** CGP Fig. VI.36-VI.40  
Revised October 1999

## APPENDIX E: MSHCP TABLE 6-2

### MSHCP TABLE 6-2. PLANTS THAT SHOULD BE AVOIDED ADJACENT TO THE MSHCP CONSERVATION AREA

(Taken Directly from the MSHCP Section 6.1.4)

BOTANICAL NAME	COMMON NAME
<i>Acacia</i> spp. (all species)	acacia
<i>Achillea millefolium</i> var. <i>millefolium</i>	common yarrow
<i>Ailanthus altissima</i>	tree of heaven
<i>Aptenia cordifolia</i>	red apple
<i>Arctotheca calendula</i>	cape weed
<i>Arctotis</i> spp. (all species & hybrids)	African daisy
<i>Arundo donax</i>	giant reed or arundo grass
<i>Asphodelus fistulosus</i>	asphodel
<i>Atriplex glauca</i>	white saltbush
<i>Atriplex semibaccata</i>	Australian saltbush
<i>Carex</i> spp. (all species*)	sedge
<i>Carpobrotus chilensis</i>	ice plant
<i>Carpobrotus edulis</i>	sea fig
<i>Centranthus ruber</i>	red valerian
<i>Chrysanthemum coronarium</i>	annual chrysanthemum
<i>Cistus ladanifer</i> (incl. hybrids/varieties)	gum rockrose
<i>Cortaderia jubata</i> [syn. <i>C. Atacamensis</i> ]	jubata grass, pampas grass
<i>Cortaderia dioica</i> [syn. <i>C. sellowiana</i> ]	pampas grass
<i>Cotoneaster</i> spp. (all species)	cotoneaster
<i>Cynodon dactylon</i> (incl. hybrids varieties)	Bermuda grass
<i>Cyperus</i> spp. (all species*)	nutsedge, umbrella plant
<i>Cytisus</i> spp. (all species)	broom
<i>Delosperma 'Alba'</i>	white trailing ice plant
<i>Dimorphotheca</i> spp. (all species)	African daisy, Cape marigold
<i>Drosanthemum floribundum</i>	rosea ice plant
<i>Drosanthemum hispidum</i>	purple ice plant
<i>Eichhornia crassipes</i>	water hyacinth
<i>Elaeagnus angustifolia</i>	Russian olive
<i>Eucalyptus</i> spp. (all species)	eucalyptus or gum tree
<i>Eupatorium coelestinum</i> [syn. <i>Ageratina</i> sp.]	mist flower
<i>Festuca arundinacea</i>	tall fescue
<i>Festuca rubra</i>	creeping red fescue
<i>Foeniculum vulgare</i>	sweet fennel
<i>Fraxinus uhdei</i> (and cultivars)	evergreen ash, shamel ash
<i>Gaura</i> (spp.) (all species)	gaura
<i>Gazania</i> spp. (all species & hybrids)	gazania
<i>Genista</i> spp. (all species)	broom
<i>Hedera canariensis</i>	Algerian ivy
<i>Hedera helix</i>	English ivy
<i>Hypericum</i> spp. (all species)	St. John's Wort
<i>Ipomoea acuminata</i>	Mexican morning glory
<i>Lampranthus spectabilis</i>	trailing ice plant
<i>Lantana camara</i>	common garden lantana
<i>Lantana montevidensis</i> [syn. <i>L. sellowiana</i> ]	lantana
<i>Limonium perezii</i>	sea lavender

**BOTANICAL NAME**

*Linaria bipartita*  
*Lolium multiflorum*  
*Lolium perenne*  
*Lonicera japonica* (incl. 'Halliana')  
*Lotus corniculatus*  
*Lupinus arboreus*  
*Lupinus texanus*  
*Malephora crocea*  
*Malephora luteola*  
*Mesembryanthemum nodiflorum*  
*Myoporum laetum*  
*Myoporum pacificum*  
*Myoporum parvifolium* (incl. 'Prostratum')  
*Oenothera berlandieri*  
*Olea europea*  
*Opuntia ficus-indica*  
*Osteospermum* spp. (all species)  
*Oxalis pes-caprae*  
*Parkinsonia aculeata*  
*Pennisetum clandestinum*  
*Pennisetum setaceum*  
*Phoenix canariensis*  
*Phoenix dactylifera*  
*Plumbago auriculata*  
*Polygonum* spp. (all species)  
*Populus nigra* 'italica'  
*Prosopis* spp. (all species\*)  
*Ricinus communis*  
*Robinia pseudoacacia*  
*Rubus procerus*  
*Sapium sebiferum*  
*Saponaria officinalis*  
*Schinus molle*  
*Schinus terebinthifolius*  
*Spartium junceum*  
*Tamarix* spp. (all species)  
*Trifolium fragiferum*  
*Tropaelolum majus*  
*Ulex europaeus*  
*Vinca major*  
*Yucca gloriosa*

**COMMON NAME**

toadflax  
Italian ryegrass  
perennial ryegrass  
Japanese honeysuckle  
birdsfoot trefoil  
yellow bush lupine  
Texas blue bonnets  
ice plant  
ice plant  
little ice plant  
myoporum  
shiny myoproum  
ground cover myoporum  
Mexican evening primrose  
European olive tree  
Indian fig  
trailing African daisy, African daisy,  
Bermuda buttercup  
Mexican palo verde  
Kikuyu grass  
fountain grass  
Canary Island date palm  
date palm  
cape plumbago  
knotweed  
Lombardy poplar  
mesquite  
castorbean  
black locust  
Himalayan blackberry  
Chinese tallow tree  
bouncing bet, soapwart  
Peruvian pepper tree, California pepper  
Brazilian pepper tree  
Spanish broom  
tamarisk, salt cedar  
strawberry clover  
garden nasturtium  
prickly broom  
periwinkle  
Spanish dagger

An asterisk (\*) indicates some native species of the genera exist that may be appropriate.

**Sources:** California Exotic Pest Plant Council, United States Department of Agriculture-Division of Plant Health and Pest Prevention Services, California Native Plant Society, *Fremontia* Vol. 26 No. 4, October 1998, *The Jepson Manual: Higher Plants of California*, and County of San Diego-Department of Agriculture.

April 14, 2021

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**REGARDING: FINAL PHASE 1 CULTURAL RESOURCES ASSESSMENT FOR THE IDYLLWILD STEWART EXTENDED STAY LODGES PROJECT APNs 563-250-017, -028, AND -031 (CUP190065), LOCATED ON ±3.73 ACRES EAST OF IDYLLWILD ROAD IN THE UNINCORPORATED COMMUNITY OF IDYLLWILD, RIVERSIDE COUNTY, CALIFORNIA (USGS IDYLLWILD, CA 7.5-MINUTE TOPOGRAPHIC QUADRANGLE) (L&L PROJECT WSCS-19-738)**

**L & L Environmental, Inc.** (L&L) is pleased to present the attached Phase I Cultural Resources Assessment report for your use. The attached report has been prepared in accordance with the California Environmental Quality Act (CEQA) and the County of Riverside Cultural Resources Guidelines. A confidential version of this report was simultaneously submitted to the County of Riverside in accordance with our existing Memorandum of Understanding (MOU) with the County.

Please review this report for accuracy of the facts and return any comments to us for incorporation. Thank you for the opportunity to work with you and please feel free to contact us at 909-335-9897, should you have any questions or comments. It has been a pleasure working with you!

Sincerely,

**L&L Environmental, Inc.**



Leslie Nay Irish  
CEO

**PHASE 1 CULTURAL RESOURCES ASSESSMENT FOR THE  
IDYLLWILD STEWART EXTENDED STAY LODGES PROJECT  
APNS 563-250-017, -028, AND -031 (CUP190065), LOCATED ON ±3.73 ACRES  
EAST OF IDYLLWILD ROAD IN THE UNINCORPORATED COMMUNITY OF IDYLLWILD,  
RIVERSIDE COUNTY, CALIFORNIA**

*Idyllwild, CA USGS 7.5-Minute Topographic Quadrangle Map  
Township 5 South, Range 3 East, Section 7*

***Prepared on Behalf of:***

Wade Shuey

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***Prepared For:***

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L&L Environmental, Inc.  
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William R. Gillean, B.S., Archaeologist  
Leslie Nay Irish, CEO/Principal Project Manager

***Fieldwork Completed By:***

William R. Gillean

***Fieldwork Date(s):***

February 18, 2021

***Report Date:***

April 14, 2021

***Keywords:***

±3.73 Acres, Idyllwild, Idyllwild Road, Borrow Pit, Ferrous Metal, Historic Glass, Historic Ceramic, Scatter, Concentration, Isolate, California Register of Historical Resources Evaluation, Not Eligible, No Historical Resources, Low Sensitivity for Buried Archaeological Resources, No Impact, *Idyllwild, CA* 7.5-minute topographic quadrangle

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## **MANAGEMENT SUMMARY**

L&L Environmental (L&L), at the request of WSCS Design, completed a Phase I Cultural Resources Assessment for the Idyllwild Stewart Extended Stay Lodges Project (the "Project") on ±3.73 acres of land, APNs 563-250-017, -028, and -031, in the unincorporated community of Idyllwild, Riverside County, California. WSCS Design proposes construction of an extended stay motel with 11 new buildings and 40 new lodging units in addition to the existing motel, paved entryways and parking lots, sidewalks with curbs, ADA ramps, and pathways. The Project area is east of State Route 243 and north of Pine Crest Avenue in Section 7 of Township 5 South, Range 3 East as shown on the USGS *Idyllwild, CA 7.5'* topographic quadrangle map.

This technical report documents efforts to identify historical resources, as defined in Public Resources Code (PRC) §5020.1(j) and complies with provisions of the California Environmental Quality Act (CEQA) to assess a Project's potential to impact historical resources during Project construction, operation, and/or maintenance. These efforts include a cultural resources records search, background research, coordination with the Native American Heritage Commission and local Native American tribes and organizations, a geoarchaeological assessment, and an intensive pedestrian survey of the entire Project area.

The Project area lies within the town of Idyllwild, a California Point of Historical Interest, and portions of the Project area (APN 536-250-031 and the eastern portion of APN 563-250-028) were originally included in the Idyllwild Mountain Park Tract Subdivision 3. Residential buildings were constructed on neighboring parcels between 1927 and 1953 but no structures were built within the Project area until 1978. The only clear evidence of historic land use within the Project area relates to the borrow pit site (WSCS-01H) in the northern portion of the Project area (APN 562-250-017). One (1) isolated find of historic ceramics (ISO-01H) and a sparse and diffuse scatter of historic glass and ceramics (WSCS-03H) that may be associated with Idyllwild Dairy were also recorded within the Project area, but the date of the resource's deposition could not be correlated with manufacturing dates associated with the artifacts identified.

All three (3) cultural resources were evaluated and recommended not eligible for the CRHR. Furthermore, none of the resources possess characteristics, qualities, or attributes that would contribute to the significance of Idyllwild Dairy or the town of Idyllwild, should the dairy or town ever be evaluated and found eligible for the CRHR. Thus, WSCS-01H, WSCS-03H, and ISO-01H do not qualify as historical resources under CEQA and they require no further consideration

during this study. In addition, the Project area appears to have a low sensitivity for encountering in situ historic age and prehistoric archaeological resources during Project construction.

As a result of these findings, L&L recommends that the County of Riverside include the industry standard provisions for **unanticipated discovery of human remains** and **unanticipated discovery of cultural resources** (see below) as conditions of approval for the Project. No additional cultural resource technical studies are required prior to Project construction and, with implementation of these standard provisions, L&L concludes that development of the Project will have no impact on cultural resources. Based on L&L's findings mitigation monitoring is not warranted and is not recommended by L&L. While mitigation monitoring is not recommended based on level of surface disturbance, lack of observed artifacts associated with CA-RIV-416, absence of evidence for potential buried deposits/midden, and limited Holocene soils, L&L recommends the following industry standard provisions for the unanticipated discovery of human remains and cultural resources be included as conditions of approval for the Project.

### **Unanticipated Discovery of Human Remains**

There is always the possibility that ground-disturbing activities during construction may uncover previously unknown buried human remains. If human remains are discovered during any phase of construction, including disarticulated or cremated remains, all ground-disturbing activities should cease within 100 feet of the remains and the County Coroner and the Lead Agency should be notified immediately.

California State Health and Safety Code 7050.5 dictates that no further disturbance shall occur until the County Coroner has made the necessary findings as to origin and disposition pursuant to CEQA regulations and PRC Section 5097.98. If the County Coroner determines that the remains are Native American, the NAHC shall be notified within 24 hours and the guidelines of the NAHC shall be adhered to in the treatment and disposition of the remains. The Lead Agency shall also retain a professional archaeologist with Native American burial experience to conduct a field investigation of the find and consult with the Most Likely Descendant, if any, identified by the NAHC. As necessary and appropriate, the archaeologist may provide professional assistance to the Most Likely Descendant, including the excavation and removal of the human remains. The Lead Agency shall be responsible for approval of recommended mitigation as it deems appropriate, taking account of the provisions of State law, as set forth in CEQA Guidelines Section 15064.5(e) and PRC Section 5097.98. The project contractor shall implement approved mitigation measure(s), to be verified by the Lead Agency, prior to resuming ground-disturbing activities within 100 feet of where the remains were discovered.

## **Unanticipated Discovery of Cultural Resources**

It is always possible that ground-disturbing activities may uncover presently obscured or buried and previously unknown cultural resources. If buried cultural resources are discovered during construction, such resources could be damaged or destroyed, resulting in impacts to potentially significant cultural resources. If subsurface cultural resources are encountered during construction, if evidence of an archaeological site are observed, or if other suspected historic resources are encountered, it is recommended that all ground-disturbing activity cease within 100 feet of the resource. A professional archaeologist shall be consulted to assess the find and to determine whether the resource requires further study. Qualified archeological personnel shall assist the Lead Agency by generating measures to protect the discovered resources. Potentially significant cultural resources could consist of, but are not limited to: stone, bone, fossils, wood, or shell artifacts or features, including structural remains, historic dumpsites, hearths, and middens. Midden features are characterized by darkened soil and could conceal material remains, including worked stone, fired clay vessels, faunal bone, hearths, storage pits, or burials and special attention should always be paid to uncharacteristic soil color changes. Any previously undiscovered resources found during construction should be recorded on appropriate DPR forms and evaluated for significance under all applicable regulatory criteria.

If the resources are determined to be unique historic resources, as defined under §15064.5 of the CEQA Guidelines, mitigation measures shall be identified by the monitor and recommended to the Lead Agency. Appropriate mitigation measures for significant resources could include avoidance or capping, incorporation of the site in green space, parks, or open space, or data recovery excavations of the finds.

No further grading shall occur in the area of the discovery until the Lead Agency approves measures to protect these resources. Any archaeological artifacts recovered as a result of mitigation shall be donated to a qualified scientific institution approved by the Lead Agency where they would be afforded long-term preservation to allow future scientific study.

## **1.0) INTRODUCTION AND ENVIRONMENTAL SETTING**

### **1.1) Introduction**

L&L Environmental (L&L), at the request of WSCS Design, completed a Phase I Cultural Resources Assessment for the Idyllwild Stewart Extended Stay Lodges Project (the “Project”) on ±3.73 acres of land (APNs 563-250-017, -028, and -031) in the unincorporated community of Idyllwild, Riverside County, California. WSCS Design proposes construction of an extended stay motel with 11 new buildings and 40 new lodging units in addition to the existing motel, paved entryways and parking lots, sidewalks with curbs, ADA ramps, and pathways. The purpose of this technical report is to provide the County of Riverside with information necessary to determine whether the Project would cause an adverse change to historical resources, as defined in PRC §5020.1(j) and therefore result in a significant impact to the environment under CEQA. To accomplish this objective, L&L completed a cultural resource records search, historical and geoarchaeological background research, coordinated with the Native American Heritage Commission (NAHC) and local Native American tribes, organizations, and individuals, and conducted a systematic survey of the entire Project area.

### **1.2) Project Location**

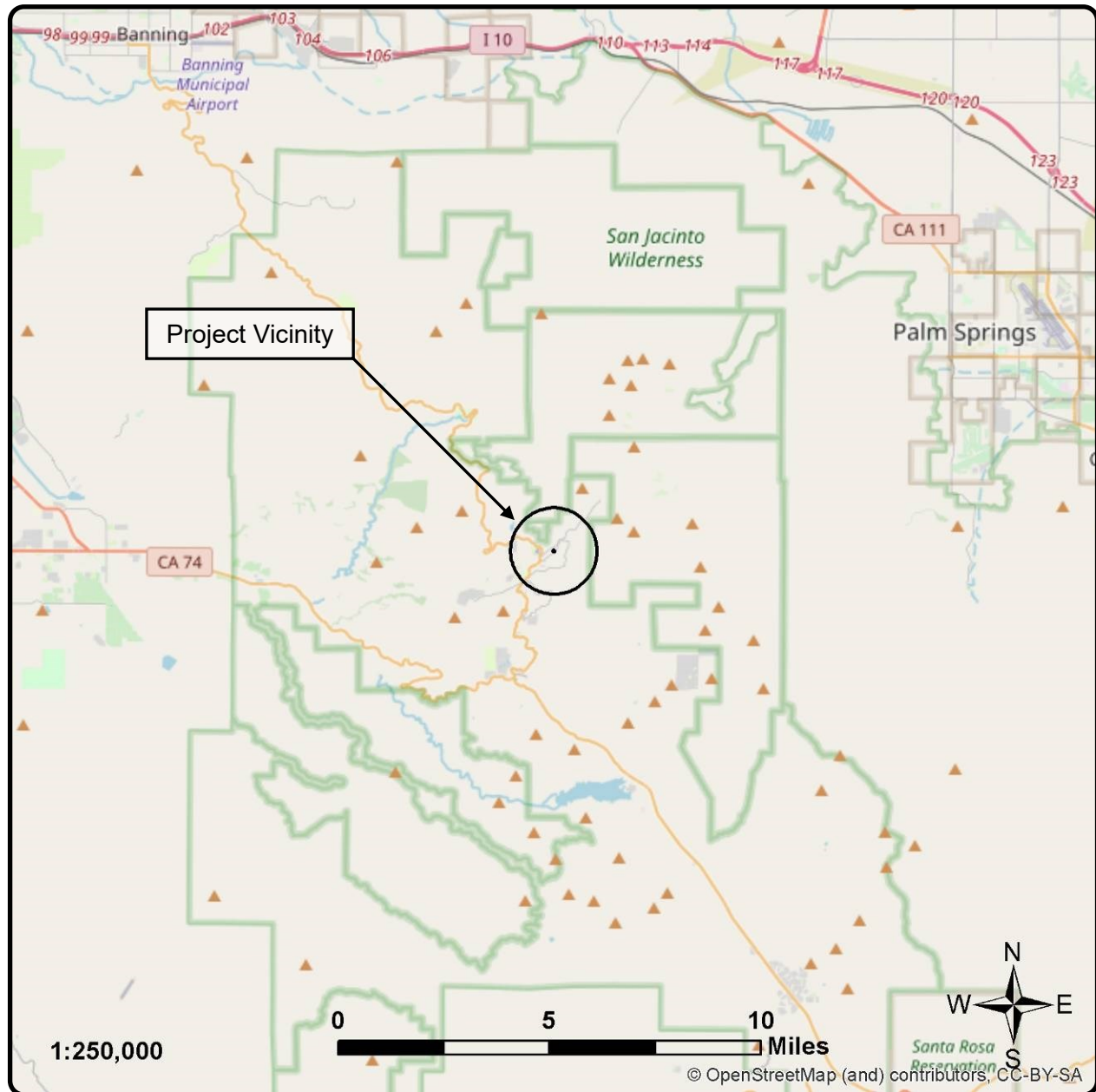
The proposed Project is generally situated in the west-central portion of Riverside County, California, east of State Route 243 and North of Pine Crest Avenue in the unincorporated community of Idyllwild. It is in a low density residential and commercial area within a forest setting. The community of Idyllwild is surrounded by San Bernardino National Forest and Mount San Jacinto State Park. The site is generally bounded as follows: to the west by State Route 243 and a portion of Mount San Jacinto State Park, with low density residential and commercial areas beyond; to the east by low density residential and commercial property; and to the north and south by low density residential and commercial property (Figure 3). Specifically, it lies within Section 7 of Township 5 South, Range 3 East as shown on the USGS *Idyllwild, CA 7.5'* topographic quadrangle map (Figure 2).

### **1.3) Project Description**

The Project proposes construction of a 40-room extended stay motel in addition to the existing motel, paved entryways and parking lots, sidewalks with curbs, ADA ramps, and pathways on a ±3.73-acre site. Eleven (11) units are proposed within APN 563-250-028 to the east of the existing structures. Another 16 units are planned for APN 563-250-031 (and 13 units on APN

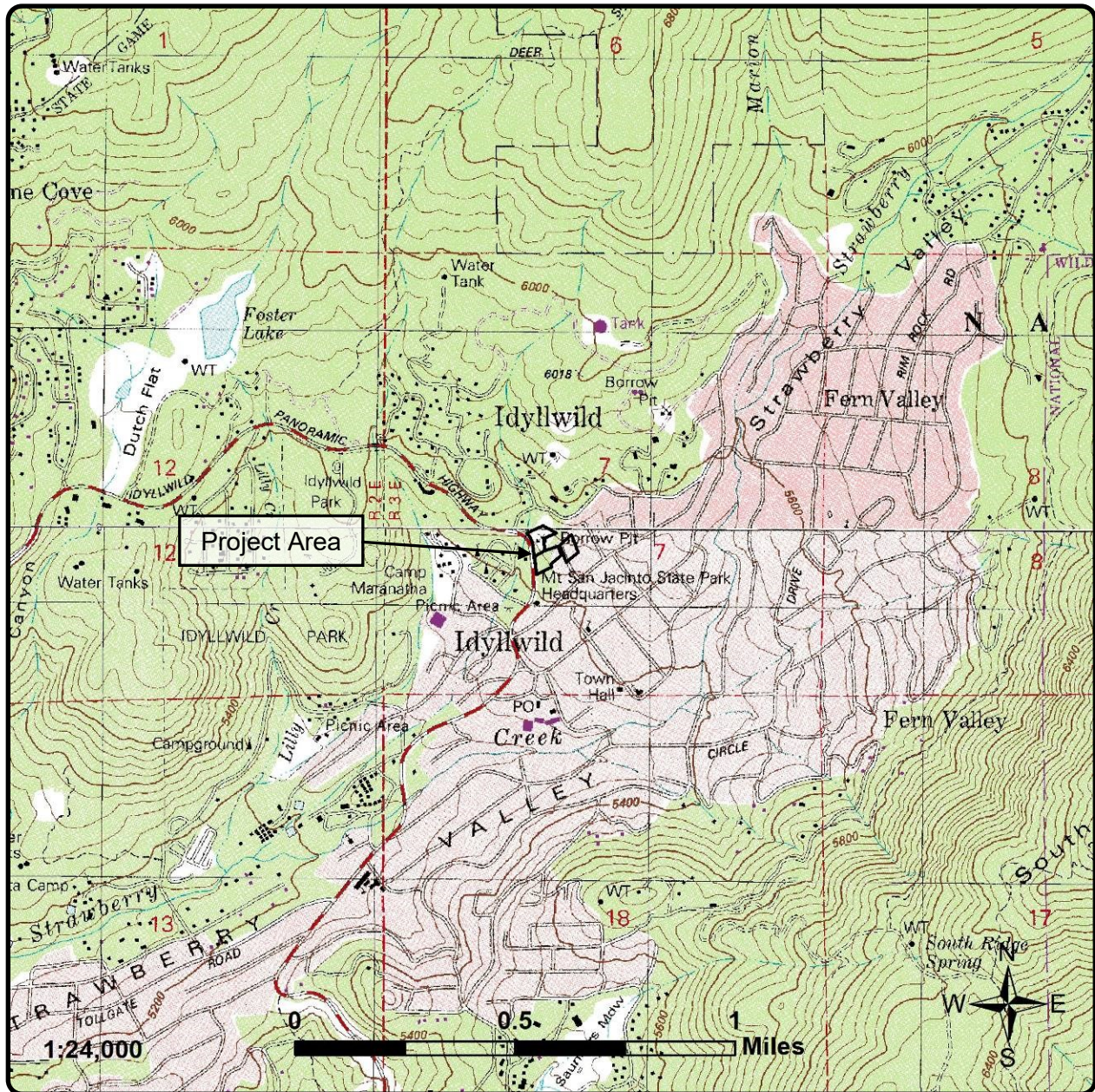
563-250-017 (Figure 4). The motel will have two (2) stories and be approximately 24 feet high. The Project is currently in the design phase and is subject to change because of on-going CEQA compliant technical studies, Native American coordination, and feedback from the County of Riverside and other applicable agencies. The vertical limits of the Project, as it relates to the maximum depth of subsurface excavations and other ground-disturbing activities, will range from 0 to 8 feet on the deepest hillside. The above ground vertical limits of the Project associated with the height of proposed buildings and architectural elements extends to a maximum of 30 feet.

The Project area is currently used for commercial lodging and the Project proposes an expansion of the motel's lodging capacity through improvements and new construction. There will be no change in land use and the buildings and grounds will remain consistent in appearance and aesthetics, blending in with the look, feel, and charm of the town of Idyllwild. Buildings and structures will be no more than 30 feet in height and while new construction may impose on existing viewsheds from State Highway 243; natural topography and tree cover will partially preserve viewsheds from neighboring properties. As such, the Project area limits were confined to the direct impact area consisting of the three (3) parcels proposed for development and improvement.



**L&L Environmental, Inc.**  
  
BIOLOGICAL AND CULTURAL  
INVESTIGATIONS AND MONITORING  
  
WSCS-19-738  
April 2021

**Figure 1**  
  
**Project Vicinity Map**  
  
*Idyllwild Stewart Extended Stay Lodges,  
County of Riverside, California*



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BIOLOGICAL AND CULTURAL  
INVESTIGATIONS AND MONITORING

WSCS-19-738  
April 2021

**Figure 2**

**Project Location Map**

USGS Idyllwild [1988] quadrangle,  
Section 7 of Township 5 South, Range 3 East)

*Idyllwild Stewart Extended Stay Lodges,  
County of Riverside, California*



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*BIOLOGICAL AND CULTURAL  
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April 2021

**Figure 3**

**Aerial Photograph**

(Aerial obtained from Google Earth, August 2018)

*Idyllwild Stewart Extended Stay Lodges,  
County of Riverside, California*





#### **1.4) Cultural Resources Staff**

The cultural resources records search at the Eastern Information Center (EIC) was completed by EIC Information Officer Eulices Lopez on January 27, 2021 (Appendix B). L&L Principal Archaeologist John Eddy, M.A., RPA, completed the historic records review, geoarchaeological assessment, and authored the report. L&L Archaeologist William R. Gillean performed the pedestrian survey of the Project area on February 18, 2021. L&L CEO/Principal Leslie Irish provided quality control oversight. Professional qualifications for key personnel are provided in Appendix A.

#### **1.5) Environmental Setting**

##### **1.5.1) Existing Land Use and Topography**

The Project area is in the San Jacinto Mountains, the northernmost mountain range in the Peninsular Range Geomorphic Province, which extends 1,500 kilometers from the southern tip of the Baja California Peninsula. More specifically, the Project area is within the unincorporated community of Idyllwild, which is in a small valley along Strawberry Creek near the base of Tahquitz Mountain.

Lands surrounding the Project area are generally characterized as mixed low-density residential and commercial developments. An existing motel (previously the Apple Blossom Inn) with parking lot is present in the western portion of APN 536-250-028 and a paved road runs east through the eastern portion of the parcel, north of a large shed and bare dirt area used for overflow parking, connecting the motel parking lot to Oakwood Street (Figure 3). APN 536-250-017 is currently vacant, but according to USGS topographic maps dating from 1981 to present the parcel at one time served as a borrow pit (Figure 2). APN 536-250-031 is mostly bare dirt used for parking and includes a paved driveway in the northwest corner and one structure that houses the Oakwood Well (Figure 3). Two (2) occupied residences are present north and east of the Project area. A mixture of disturbed and undisturbed open space, commercial, and residential developments are present to the south, north, west, and east.

Idyllwild is recognized as a Unique Community within the Riverside Extended Mountain Area Plan (REMAP), which defines the various types of land use designations applied to unincorporated County land (Riverside 2015). The Project area is zoned Village Tourist Residential (R-3a), with land use designations that include medium density residential (MDR). The Project area is not within a specific plan.

The Project area gradually to steeply increases in elevation as it trends away from Highway 243 to the east, with elevations ranging from 5,461 feet (1,665 meters) above mean sea level (AMSL) at the southwest corner of Parcel 017 to 5,523 feet (1,683 meters) AMSL at the northeast corner of Parcel 031. A north to south trending mapped blue-line stream is present adjacent to the northwest corner of Parcel 017. No drainages were observed onsite. The Project area is partially developed and heavily disturbed by vegetation removal, off highway vehicular travel, and activities associated with a historic borrow pit (Appendix C: Photographs 4, 5, 6, 7, 8, and 9).

### 1.5.2) Soils and Geology

Surface soils mapped within APNs 563-250-028, -031, and the southeast portion of -017 are identified as Wind River-Oak Glen Families association (KoD), 2 to 15 percent slopes, and consist of sandy loam (NRCS 2020). Soils mapped in the northwest portion of APN 563-250-017 consist of Pacifico-Preston families complex (DdDE), 2 to 30 percent slopes, loamy coarse sand. Contact with weathered bedrock occurs at a depth of approximately 20 inches in Pacifico-Preston soils, four (4) feet in Windy River soils, and at depths greater than five (5) feet in Oak Glen soils.

The Project area is underlain by Pleistocene-age Quaternary alluvial-fan deposits (Qoa), slightly to moderately consolidated, moderately dissected clay, silt, sand, and gravel (Dibblee and Minch 2008). Alluvial sediments within the Project area were likely deposited by overflow from Strawberry Creek and are described as generally uplifted and deformed.

### 1.5.3) Vegetation and Wildlife

Jeffrey Pine Forest and Willow Thickets and Mesic Meadow habitats were observed within the Project area; however much of the Project area in APNs 563-250-028 and -031 is disturbed and developed. Jeffrey pines (*Pinus jeffreyi*) are the most common trees onsite. Other trees observed include canyon live oak (*Quercus chrysolepis*), California black oak (*Quercus kelloggii*), incense cedar (*Calocedrus decurrens*), and white fir (*Abies concolor*). Perennial shrubs observed include manzanita (*Arctostaphylos* species), California coffeeberry (*Frangula californica* ssp. *californica*), and southern honeysuckle (*Lonicera subspicata* var. *denudata*). Native understory plants observed on the less disturbed portions of site include (but are not limited to) Wright's buckwheat (*Eriogonum wrightii* var. *membranaceum*), slender buckwheat (*Eriogonum gracile*), California yarrow (*Achillea millefolium*), lotus (*Acmispon* species), leafy fleabane (*Erigeron foliosus*), sapphire woollystar (*Eriastrum sapphirinum*), sticky lessingia

(*Lessingia glandulifera* var. *glandulifera*), perennial cudweed (*Pseudognaphalium thermale*), and Parish's milkvetch (*Astragalus douglasii* var. *parishii*).

Non-native and ornamental plants observed onsite include common dandelion (*Taraxacum officinale*), cheatgrass (*Bromus tectorum*), ornamental perennial sweet pea (*Lathyrus latifolius*), ornamental plum (*Prunus* species), silver maple (*Acer saccharinum*), shortpod mustard (*Hirschfeldia incana*), and greater periwinkle (*Vinca major*).

Within the borrow pit area, conspicuous plants previously observed included red willow and arroyo willow (*Salix laevigata* and *S. lasiolepis*), California dock (*Rumex californicus*), Hooker's evening primrose (*Oenothera elata* ssp. *hookeri*), seep monkeyflower (*Erythranthe guttatus*), lesser paintbrush (*Castilleja minor* ssp. *spiralis*), cotton batting (*Pseudognaphalium stramineum*), creek clover (*Trifolium obtusiflorum*), and toad rush (*Juncus bufonius*). Most of the willows were small and scattered throughout the basin of the pit. Communication from the Project proponent indicates that the area is maintained annually.

Montane woodland habitat of the San Jacinto Mountains is home to numerous avian, reptilian, and mammalian species including rabbit, quail, racoon, bobcat, mountain lion, gray fox, coyote, deer, and black bear. Wildlife identified within the Project area included several species of birds and mammals. Bird species observed included common raven (*Corvus corax*), woodpeckers, hawks, turkey vultures, mourning doves, mountain quail, chickadees, sparrows, hummingbirds, nuthatches, and thrushes. Mammal species included Merriam's chipmunk (*Neotamias merriami*) and western gray squirrel (*Sciurus griseus*).

#### 1.5.4) Water Resources

No rivers, streams, or ephemeral drainages exist within the Project area. However, the borrow pit may have seasonally ponded water based on its topography and botanical characteristics. Ponding water was not observed, but wetland indicator plants were present. Strawberry Creek, a USGS mapped north to south trending blue-line stream, lies approximately 2,000 feet south of the Project area.

## **2.0) CULTURAL SETTING**

### **2.1) Prehistoric Setting**

Little is known about the prehistory of the San Jacinto Mountains leading one researcher to refer to the entire northern Peninsular Ranges as an “archaeological enigma” (Sutton 2011:44). In the absence of a cultural framework for the geographic region researchers often borrow from frameworks established for coastal (e.g., Wallace 1955; Warren 1968; King 1990; Sutton 2010; Sutton and Gardner 2010), desert (Warren 1984; Love and Dahdul 2002; Schaefer and Laylander 2007; Sutton et al. 2007), or inland valley regions (e.g., O’Connell et al. 1974; Grenda 1997; Goldberg et al. 2001; Sutton 2011, 2015). The following section provides a brief discussion of the prehistoric setting for the San Jacinto Mountains that borrows heavily from the general frameworks offered by Goldberg et al. (2001) for Diamond Valley Reservoir, O’Connell et al. (1974) for Perris Valley Reservoir, Grenda (1997) for Lake Elsinore, and Warren (1984) for the greater southern California desert region. Additional information related to the prehistory of southern California can be found in ethnographic studies, mission records, and major published sources including Kroeber (1925), Strong (1929), Heizer (1978), Moratto (1984), Chartkoff and Chartkoff (1984), Warren and Crabtree (1986), Raab and Jones (2004), Jones and Klar (2007), Arnold (2010), and Sutton (2015).

The prehistoric framework proposed by Goldberg et al. (2001) consists of seven (7) distinct periods: Paleoindian; Early, Middle, and Late Archaic; Saratoga Springs; Late Prehistoric; and Protohistoric. A reassessment of the sequence is proposed in light of ongoing research into the antiquity and distribution of late-period projectile point styles (e.g., Cottonwood Triangular and Desert Side-notched), dynamic changes in regional social networks in the inland valleys during the Medieval Warm Interval (e.g., Eddy 2013), and changes in prehistoric settlement activity during the Archaic to Late Prehistoric transition in central western Riverside County. The revised central cultural sequence replaces Paleoindian, a term first used by Roberts (1940) and proffered by Moratto (1984), with Paleoarchaic after Beck and Jones (1997), Jennings (1957, 1964), Willig (1988), and Davis et al. (2012) and identifies the Saratoga Springs Period, adopted from Warren’s (1984) Mojave Desert sequence, as a potential Occupational Hiatus (ca. 1,500 to 1,200 BP), while the start date for the Late Prehistoric is pushed back several hundred years to approximately 1,200 BP. The revised sequence further differentiates the Late Prehistoric Period into Medieval Warm and Post-Medieval Warm Intervals and divides the period into three (3) distinct phases (Phase I [1,200 to 750 BP]; Phase II [750 to 575 BP]; and Phase III [575 to 410 BP]).

### 2.1.1) Paleoarchaic Period (~12,000 to 9,500 BP)

The earliest period of human occupation in southern California dates to the late Pleistocene-Holocene transition in coastal and desert settings. This is often referred to as the Paleoindian Period (e.g., Roberts 1940; Moratto 1984), which is commonly applied to the earliest cultures across North America. This period is also referred to as Period I: Hunting (Wallace 1978), Paleocoastal (Braje et al. 2013), San Dieguito (Warren 1968, 1984; Sutton and Gardner 2010), Lake Mojave (Campbell et al. 1937; Warren and Crabtree 1986), and the Western Pluvial Lakes Tradition (Cressman 1940a, 1940b, 1942, 1986; Bedwell 1970, 1973).

Others (e.g., Beck and Jones 1997; Davis et al. 2012) argue the existence of a Paleoarchaic tradition accounts for the stemmed and nonfluted projectile point culture(s) of the Far West and distinguish it from the Paleoindian tradition, which they equate with fluted point cultures, most notably Clovis. Davis et al. (2012:53) identify significant differences in the organization of Paleoarchaic and Paleoindian lithic technologies that challenge the idea of a clear evolution from fluted to nonfluted lithic reduction technologies, as implied within the Clovis first model.

Paleoarchaic sites may be associated with the remains of extinct megafauna. The period is also distinguished by a distinct lithic tool assemblage composed of percussion-flaked scrapers and knives and large, well-made, fluted, leaf-shaped, or stemmed projectile points (e.g., Lake Mojave, Silver Lake) as well as crescentics, heavy core/cobble tools, hammerstones, bifacial cores, choppers, and scraper planes. Both Warren (1984) and Wallace (1978:27) suggest that the absence of milling tools commonly used to process seeds and other plant materials indicates big game subsistence focus. The early occupants of southern California's deserts were most likely nomadic large-game hunters, while those occupying the coastline and islands were entrenched within a maritime economy that included large mammals, fish, and shellfish.

Pleistocene megafauna perished abruptly between 13,000 and 10,000 BP as the climate warmed and became more arid. Human populations responded to the changing environmental conditions by diversifying their subsistence base to include a variety of faunal and floral resources (Warren 1980, 1984).

### 2.1.2) Early Archaic Period (9,500 to 7,000 BP)

The Early Archaic Period represents the earliest accepted evidence of human occupation in the vicinity of the San Jacinto Mountains. Archaeological remains associated with this time period are often associated with and characterized by an abundance of metates and manos and a paucity of projectile points and faunal remains, suggesting a transition in subsistence focus from

large game hunting to plant resource procurement. Evidence of this transition, which Wallace (1955) subsumed under “Period II: Food Collecting,” was noted along southern California’s coastline at approximately 8,500 BP and associated with the Encinitas Tradition (Warren 1968; Sutton and Gardner 2010), with a slightly earlier date of 9,000 BP proposed for central and northern California (Fitzgerald and Jones 1999:86). In southern California’s inland valleys, the appearance of metates and manos date to as early as 9,400 BP (Horne and McDougall 2008).

The Encinitas Tradition, which Sutton and Gardner (2010) divide into inland and coastal manifestations and four (4) distinct cultural patterns (Topanga and La Jolla along the coast; Pauma and Greven Knoll for inland areas) is characterized by a rather generic and flexible subsistence strategy (e.g., Hale 2001:165) employed by small groups of highly mobile hunter-gatherers with a heavy reliance upon plant resources (Sutton and Gardner 2010:5). Material culture attributes of the Encinitas Tradition, as originally defined by Warren (1968), include abundant metates and manos, crude core and flake tools, shell ornaments, bone tools, and a paucity of projectile points.

Few archaeological sites date to the Early Archaic in Riverside County. The majority of these contain scant evidence of Early Archaic, mostly dated off obsidian hydration rind measurements, suggesting ephemeral site use by small, highly mobile groups. This seems to support the idea that ephemeral use of the inland valleys during the Paleoindian period continued into the Early Archaic. However, at least two (2) sites (CA-RIV-5786 and -6069) contain evidence of semi-sedentary residential occupations where site reuse was anticipated, suggesting a predictable availability of water and other critical resources (Goldberg et al. 2001). These sites are found invariably near large, drought-resistant, inland water sources, and may have been destination points on a scheduled, seasonal round.

### 2.1.3) Middle Archaic Period (7,000 to 4,000 BP)

Settlement activities intensified in the inland areas of cismontane southern California during the Middle Archaic Period as conditions in the interior deserts deteriorated (Goldberg et al. 2001). Paleoecological and paleohydrological evidence suggests maximum aridity in the desert regions between approximately 7,000 and 5,000 B.P., with amelioration returning at approximately 5,500 B.P. and continuing through 4,000 B.P. (Spaulding 1991, 1995). The Pinto Period (ca. 7,000 to 4,000 or 3,500 B.P), which succeeded the Lake Mojave Period in the Mojave Desert, represents an adaptive response to changing climatic conditions evident in prehistoric subsistence practices, placing higher emphasis on the exploitation of plants and small animals

than the preceding period, although hunting of large game animals continued with similar intensity (Warren 1980, 1984).

Sutton and Gardner's (2011) Greven Knoll I complex for the San Bernardino Mountains and inland valleys, while problematic for its lack of consistency, does identify Pinto material traits among Greven Knoll sites. These traits led Kowta (1969:39) and later Sutton and Gardner (2010:26) to suggest the San Bernardino Mountains and inland valleys were influenced by Pinto groups occupying the Mojave Desert to the north. This influence may have permeated into the lower Colorado Desert as well as the San Jacinto Mountains.

Archaeological investigations in Diamond Valley identified at least 19 archaeological components associated with the Middle Archaic Period. Several intensively used residential bases and/or temporary camps containing abundant cultural debris, including temporally diagnostic artifacts (Pinto and Silver Lake projectile points, crescents), at least nine (9) complex lithic scatters likely representing resource extraction and processing sites, and one (1) human burial covered with large rocks and ground stone artifacts, were recorded. In addition, evidence of ephemeral Middle Archaic use is present at several sites in the form of isolated radiocarbon-dated features and/or sparse scatters of obsidian debitage dated by obsidian hydration methods. More intensively used residential components occur along alluvial fan margins, while less intensively used areas are situated on arroyo bottoms or upland benches (Goldberg et al. 2001).

CA-RIV-5045, also known as the Diamond Valley Pinto Site, evinces purely Pinto and Lake Mojave materials in well-stratified, radiometrically defined cultural deposits. In addition to the numerous Pinto-style projectile points recovered, deposits contained abundant and diverse faunal assemblages, an extensive array of flaked stone tools and ground stone implements, and intact cultural features assignable to specific periods of occupation. Radiometric data, feature types, and artifact/ecofact assemblage characteristics indicate that CA-RIV-5045 was occupied most intensively between 6,200 and 5,600 B.P., when it is believed to have functioned as a wintertime residential base (McDougall 2001).

The density of Middle Archaic Period sites in Diamond Valley compared to the previous period suggests land-use and settlement activities intensified (Goldberg et al. 2001). Similar evidence of intensification was observed by Grenda (1997) at the Lake Elsinore site (CA-RIV-2798/H) sometime after 4,800 B.P. The distribution and variety of sites (i.e., residential bases, temporary camps, and a variety of ephemeral resource extraction and processing sites) suggest that Middle Archaic inhabitants of the inland valleys likely conformed to a rest-rotation collecting



strategy that included warm-season residential movements through a series of resource procurement camps (otherwise known as the seasonal round), followed by longer-term residential settlements during the midwinter ebb (Goldberg and Horne 2001). A key feature of rest-rotation collecting is reliance on stored foods during the interval of winter sedentary occupation. Logistic mobility, or the collection and transport of critical resources to the home residential base, also played an important role in resource procurement, especially during the winter when stored foods were likely consumed.

#### 2.1.4) Late Archaic Period (4,000 to 1,500 BP)

Analysis of Late Archaic sites in nearby Diamond Valley suggests groups changed to a semisedentary land-use and collection strategy. The profusion of features, especially refuse deposits, in Late Archaic components suggests that seasonal encampments saw longer use and more frequent reuse than during the latter part of the Middle Archaic Period, with increasing moisture improving the conditions of southern California after ca. 3,100 B.P. (Horne 2001). Drying and warming after ca. 2,100 B.P. likely exacted a toll on expanding populations, influencing changes in resource procurement strategies, promoting economic diversification and resource intensification, and perhaps resulting in a permanent shift toward greater sedentism (Goldberg 2001).

Technologically, the artifact assemblage of the Late Archaic mimicked the preceding Middle Archaic. New tools were added either as innovations or as “borrowed” cultural items. Influence from the Colorado Desert was apparent in the appearance of Obsidian Butte obsidian at Late Archaic assemblages in Diamond Valley (Robinson 2001a:413). The influence of desert culture that was apparent during the Middle and early part of the Late Archaic period, as evinced by the presence of Pinto and Elko-style dart points, waned toward the end of the Late Archaic, and later, Phase I of the Late Prehistoric Period. For instance, the Rose Spring projectile point style, prevalent in the Mojave Desert north and west of the Mojave River, was not found in association with Late Archaic or Phase I Late Prehistoric Period sites in Diamond Valley (Robinson 2001b). In fact, Rose Spring-style points are rare throughout the inland valleys. Further, the Late Archaic/Late Prehistoric transition was also marked by a decrease in use of Coso Obsidian (Robinson 2001a), suggesting access to Mojave Desert resources was restricted, perhaps resulting from the growth of competing social networks (e.g., the stone bead interdependence network [Eddy 2013]).

## 2.1.5) Late Archaic/Late Prehistoric Transition (1,500 to 1,200 BP)

Chronometric data from archaeological sites in Diamond Valley includes a 450-year gap in the human occupation record. Similar gaps were noted at Perris Reservoir (O'Connell et al. 1974) and Lake Elsinore (Grenda 1997), suggesting a potential occupational hiatus of the inland valleys between the end of the Late Archaic (1,500 B.P.) and advent of the Medieval Warm Interval (1,200 B.P.) A similar occupational hiatus between 1,350 and 1,150 BP is noted in chronometric data from residential sites in Coachella Valley. The evidence suggests the inland valleys and lower desert witnessed a period of sporadic non-intensive use as these once viable areas were abandoned for other locations with greater availability and predictability of natural resources and water.

Late Archaic populations occupying canyons and desert oases of the northwestern Colorado Desert, as well as the Diamond, San Jacinto, and Moreno Valleys, could have migrated into the Peninsular Ranges (e.g., Santa Rosa and San Jacinto mountains; Wilke 1978) or north into the Transverse Ranges and Mojave Desert. Movement southeast into the lower Colorado River is not likely due to the absence of Patayan I ceramics, produced as early as 1,250 BP in the lower Colorado River area (Schroeder 1952; Waters 1982:281), from Coachella Valley deposits radiocarbon dated as early as 1,100 BP. Patayan ceramics (i.e., evidence of interaction with the lower Colorado River), did not arrive in the Coachella Valley or the Peninsular Ranges until 950 BP (Dahdul et al. 2011:98; May 1978:4; Palette and Schafer 1994:7; Schaefer 1994:5).

While inland valley and lower desert areas were apparently vacated, populations were aggregating near predictable and reliable sources of water in other areas of southern California. In the Mojave Desert and southwestern Great Basin, population aggregation coincides with the early part of the Saratoga Springs Period (Wallace and Taylor 1959; Wallace 1977, Warren 1984; Warren and Crabtree 1986) associated with Rosegate-series and Eastgate-series projectile point styles, as well as morphologically distinct large triangular projectile points, later classified as Saratoga Springs points (Wallace 1988). These points may represent the advent of the bow and arrow weapons system, which was used alongside the former atlatl weapons system for some time. Others working in the Mojave Desert (e.g., Gardner 2002, 2006; Sutton 1996; Sutton et al. 2007; Sutton and Jackson 1993) refer to this period as Rose Spring and place the start date as far back as 1,800 B.P.

A shift toward sedentism during the Saratoga Springs/Rose Springs Period led to the development of extensive residential occupations established near springs, creeks, and lakeshores (Sutton 1996). In some instances, these occupations were equipped with

permanent living structures (Sutton 1990, 1991). Between 1,500 and 1,100 B.P., large village sites with well-developed midden deposits appeared in the Antelope Valley (Sutton 1981), at the Bickel Site north of Antelope Valley (McGuire et al. 1981), at Rustler Rockshelter in the Mojave national preserve (Davis 1962; Sutton 2005), and possibly at the Saratoga Springs site in Death Valley (Wallace and Taylor 1959). In the northwestern Colorado Desert, a Late Archaic Period occupation near Seven Palms (CA-RIV-2642; Dahdul et al. 2011) and another below the high shoreline of Lake Cahuilla (CA-RIV-6797; Brock 2002) persisted until approximately 1,350 B.P., when the area was apparently abandoned.

Adaptive responses to changing environmental conditions associated with the Medieval Warm Interval and the diversion of the Colorado River back into the Salton Trough led to repopulation and intensive occupation of the northwestern Colorado Desert. Coinciding with this settlement shift in the desert, populations reoccupied the inland valleys around 1,200 B.P.

#### 2.1.6) Late Prehistoric Period (1,200 to 410 BP)

The initial date of the Late Prehistoric Period in southern California is a topic of some debate. It is commonly associated with the appearance of a unique suite of artifacts that include Cottonwood Triangular and Desert Side-Notched (DSN) projectile points and ceramics dated to approximately 800 BP (Warren 1984:424; Goldberg et al. 2001). Others (Dahdul et al. 2011; Wallace 1955; Warren 1968) push the advent of the Late Prehistoric Period as far back as 1,500 B.P., coeval with the Saratoga Springs/Rose Springs Period in the Mojave Desert. We suggest a more satisfactory date of 1,200 BP, coinciding with the re-intensification of land-use in inland valleys following a potential 300-year occupational hiatus.

The Late Prehistoric Period may be divided into three (3) distinct phases spanning the time before and during the Medieval Warm Interval – Phase I: 1,200 to 750 BP, Phase II: 750 to 550 BP, and Phase III: 550 to 410 BP.

Phase I of the Late Prehistoric Period (1,200 B.P. to 1,050 B.P.) is associated with the reoccupation of the inland valleys and northwestern Colorado Desert prior to the onset of the Medieval Warm Interval and the aggregation of populations near reliable water sources during the climatic interval, a pattern that peaked during Phase II (750 and 550 BP). Phase III follows the end of the Medieval Warm Interval and is characterized by the transition toward fewer more permanent residential sites (see Horne 2001) that continued into and after the arrival of Europeans, which marks the beginning of the Protohistoric Period (i.e., 410 BP).

Characteristic artifacts of the Late Prehistoric Period, in general, include large triangular

projectile points, sometimes referred to as Saratoga Springs points or perhaps more appropriately ancestral Cottonwoods, that transition into standard Cottonwood points, higher frequencies of millingstones (e.g., unshaped handstones, mortars, and pestles), incised stones, and shell beads. Brownware ceramics, Lower Colorado Buffware ceramics, and Desert Side-notched points do not typically occur until the Protohistoric. During this time, access to Coso obsidian was restricted to the northern Mojave Desert, possibly associated with the Numic Spread (Bettinger and Baumhoff 1982; Lamb 1958; Sutton 1994) resulting in increased use of cryptocrystalline silicates to the south and east. In the inland valleys, locally available lithic materials (e.g., quartz, Bedford Canyon metavolcanics) were supplemented by obsidian obtained from the Obsidian Butte source in Imperial County near the southern end of Salton Sea.

#### 2.1.7) Protohistoric Period (410 to 150 BP)

The Protohistoric Period marks the arrival of the Spanish in Alta California and the impact of European influence on native populations. Although the Spanish did not formally enter the San Jacinto Mountains until centuries later, Native Americans in the area were aware of Europeans and even acquired some European goods through trade networks well before European colonization began. Such influences may be found when European and Mexican-made materials are encountered in Protohistoric archaeological deposits. Such discoveries may contribute to analyses of trade networks, political relationships between groups, and shifts in emphasis on subsistence resources.

The Protohistoric Period witnessed an increase in usage of obsidian from the Obsidian Butte source near the southern end of Salton Sea, which was exposed between high stand intervals of Lake Cahuilla sometime between 350 and 300 B.P. and again between 250 to 150 B.P. Furthermore, Desert Side-notched points spread further inland where they are often found in Protohistoric archaeological deposits along with more common Cottonwood Triangular points. Late in the period, European trade goods (i.e., glass trade beads) were added to the cultural assemblages (Meighan 1954).

Climatic conditions of the Little Ice Age, beginning in Phase III of the Late Prehistoric Period, continued into the Protohistoric Period and supported development of various productive plant communities and ecotones to sustain local populations almost year-round. The use of plant food increased, as did the intensity of the processing effort. Faunal data from this period demonstrates a decrease in faunal diversity, signifying both a reduction in diet breadth and greater dependency on specific animals, namely lagomorphs (McKim 2001).

Lower temperatures during the Little Ice Age coupled with inadequate sources of fuel wood suggest procurement of fuel may have become an increasingly important element of logistical provisioning. Toolstone distribution patterns indicate that local materials, such as Bedford Canyon metavolcanics and quartz vein deposits, were supplemented by desert materials (obsidian and chert), which gained prominence during this period while other relatively closer sources of exotic raw materials from the west (basalt, andesite, rhyolite, metavolcanic rock, and Piedra de Lumbre “chert”) were little used, suggesting that territorial boundaries, at least to the west, had become established.

Hunting efficiency increased through use of bow and arrow and widespread exploitation of hard nuts and berries, as well as the re-intensification of acorn use (indicated by the abundance of mortars and pestles in Diamond Valley assemblages), provided reliable and storable food resources. Village sites dating to the Protohistoric Period in Diamond Valley contained deeper refuse-laden midden deposits, suggesting permanent habitation. Settlement became almost completely sedentary, with many small residential sites within larger village territories that included resource gathering and processing areas. These would have been the villages and rancherías noted by early non-native explorers of the region (True 1966, 1970).

Land-use intensification strategies during the Protohistoric Period mirror changes at the end of the Late Archaic Period, when climatic degradation inducing resource stress on local populations may have triggered a shift from rest-rotation collecting to a semisedentary settlement strategy. If the environment during the Protohistoric Period was just as productive as Phase III of the Late Prehistoric Period, what other factors would account for the development of more intensive land-use strategies during the Protohistoric? It has been suggested that the shift to a fully sedentary settlement strategy during the Protohistoric was not a response to environmental degradation, but rather, resource stress resulting from a population increase that started in Phase III of the Late Prehistoric Period (Goldberg 2001).

Increased population in the inland valleys may have led to competition for food, water, and other natural resources (fuel). Resource stress could not be alleviated through territorial expansion and/or resource niche-width expansion as it was during the Late Archaic and Phase I and II of the Late Prehistoric. Increasing territorial circumscription would require longer occupation of residential bases, reducing logistical movements between seasonal bases. Rather, occupation of permanent villages and increasing population likely led to territoriality over critical resources, precluding opportunities for territorial expansion and/or leading to confrontations and all-out inter-village conflict. An increase in the frequency of projectile points and the strategic placement of residential sites on elevated bedrock surfaces overlooking the floor of Diamond

Valley lends some support to this theory (Goldberg et al. 2001). Alternatively, trade and ceremonial gatherings with other groups may have helped maintain social relationships, ensured food resources during stressful times, and sustained populations.

The Hakataya influence in coastal and inland Southern California regions appears to have diminished during the late Protohistoric Period, when extensive trade networks along the Mojave River and in Antelope Valley apparently broke down and large village sites were abandoned (Warren 1984:427). Warren (1984:428) suggests that disruption in trade networks may have resulted from the movement of the Colorado River basin Chemehuevi populations southward across the trade routes.

## **2.2) Ethnohistoric Context**

The ethnohistory of the Cahuilla Indians is documented in several ethnographic studies, mission records, and major published sources including Kroeber (1908, 1925), Hooper (1920), Strong (1929), Bean (1972, 1978), Heizer (1978) and Bean et al. (1991). The following is a summary of Cahuilla ethnohistory summarized from Bean et al. (1991).

The San Jacinto and Santa Rosa mountains were occupied by the Cahuilla people at the time of Spanish arrival in 1769. The Cahuilla were organized into at least 12 differed patrilineal clans, which owned large spans of territory that included multiple ecological zones at high and low elevations. This allowed the Cahuilla people to exploit a wide range of plant and animal resources in different seasons (Bean 1972).

Cahuilla clans operated within a hierarchical politico-religious structure, each with one or more ceremonial units that served as a “symbolic representation of the sociopolitical reality of the group” (Bean et al. 1991:5). These groups were part of a ritual congregation connecting autonomous groups to the broader socio-political, religious, and economic networks.

The Cahuilla were hunter-gatherers for the most part and may have incorporated agriculture into their subsistence foci prior to European contact. Among the animals the Cahuilla hunted were pronghorn sheep, mule deer, rabbits, squirrels, chipmunks, desert tortoise, rats, and mice. The Cahuilla often organized communal rabbit hunts prior to ceremonial gatherings to provide food for guests and participants. When available, the Cahuilla also hunted fish and birds along the shoreline of ancient Lake Cahuilla.

Cahuilla material culture included an array of utilitarian and ceremonial objects. Cahuilla were well known for their woven baskets. They were also expert potters and used ceramics to craft

many different items for storage, cooking, and other uses. Stone and wood implements were integral to daily Cahuilla life. Wooden mortars and pestles were used to process mesquite beans and other seeds and plant materials, as were stone manos and pestles used with stone mortars, metates, and bedrock slicks. Cryptocrystalline and microcrystalline silicates, metavolcanics, and obsidian, among other stone materials, were worked into knives, blades, scrapers, and projectile points to tip wood arrows. Wood was utilized for bow construction, pestles and mortars, arrow shafts, throwing sticks, digging sticks, and flutes. The Cahuilla also utilized various parts of animals (e.g., bone and tendons) and plants (e.g., mescal fiber sandals) in everyday life. Ceremonial objects included shell beads, feathers, gourd rattles, crystals, wands, and various items that made up the ceremonial bundle.

Cahuilla settlements congregated around the shoreline of ancient Lake Cahuilla. As the lake receded, the Cahuilla moved their villages and adapted their subsistence practices (Wilke 1976). Villages were also located in or near the mouth of canyons and valleys in areas that could supply many of their food resources within a 5-mile area (Bean 1972:73-74). Village sites at elevations above 5,000 feet were rare. This would include Strawberry Valley, where the current Project area resides at an elevation of more than 5,500 feet. Such high elevation locations were utilized for hunting and gathering of plant resources.

### **2.3) Historic Context**

In 1819, Mission San Gabriel had established an *asistencia* at San Bernardino. A second outpost was established near Beaumont in 1824 and given the name *San Gorgonio*, with the aim of guarding the well-known, but little used, Cocomaricopa Trail. This trail probably dates back to very ancient times and was an Indian trading route between the Colorado River tribes and the Southern California coast. In 1821, a Cocomaricopa chief arrived at Mission San Gabriel on a trading mission from Tucson. His route took him through San Gorgonio Pass. The outpost also staked a Mission claim to stock raising in the area. The latter outpost was apparently little used for many years and the Cahuilla were relatively unaffected by these Spanish incursions, compared to their more coastal brethren.

*Rancho San Jacinto Viejo* was the most remote rancho associated with Mission San Luis Rey, and the rancho was, like all others during the Mexican and Spanish periods, established for cattle production. Once the Mission system collapsed, the lands were taken through various means into private landholdings. The primary effects on aboriginal tribes during this period was the collapse of traditional economic systems, spiritual belief systems, and outbreaks of alien disease, such as smallpox.

Once California was ceded to the United States, American influence and commerce in the San Jacinto Mountains grew relative to the rate of growth in the Los Angeles Basin. The San Jacinto Mountains lack high quality deposits of precious metals, but they were an excellent source of raw wood material. Efforts to use that resource began with the construction of the Southern Pacific Railroad through San Geronimo Pass in 1875. Vast numbers of ties were required and milling outfits (with their associated logging roads) were setup in flatter areas amidst the pine forests (Robinson and Risher 1993). The camps were usually found above the 5,000-foot level but were often moved or closed after short periods due to the high financial risk involved and lack of secondary markets for wood. The region became homesteaded, with numerous small areas ranched by small landholders, following the old Mission stock raising model.

Efforts to log the San Jacinto Mountains led to establishment of permanent roads through the area and eventual use of certain desirable places (beginning about 1889), such as Strawberry Valley and Idyllwild, for recreation. Pine Cove was first established as a logging camp and stage stop and numerous sites (some recorded, but most unrecorded) associated with historical logging operations can be found nearby. The modern highway through Pine Cove follows the original wagon road, except for a stretch north of the community that crosses Marion Ridge. The original road location, now commonly known as the "*Old Banning-Idyllwild Highway*", serves as the access road to the study area.

Eventually, two (2) primary routes for vacationers from the west were established: a Hemet-Idyllwild track and the *Old Highway*. Both held stagecoach runs during the vacationing season. The Banning route was formally established in 1910 for wagon and automobile traffic (Robinson and Risher 1993), but most of this route followed logging roads that had been established some years before. The road from Banning to Idyllwild was improved in the mid-1930s and efforts to pave the road were underway in 1950. Today, the Pine Cove - Idyllwild areas serve a small permanent base of mountain residents and are swamped by touring flatlanders on weekends. Tourism has been the primary focus of the area ever since the abovementioned roads were improved to handle motor vehicle traffic.



### **3.0) REGULATORY SETTING AND METHODS**

#### **3.1) Regulatory Setting**

Under CEQA, public agencies must consider the effects of their actions on both historical resources and unique archaeological resources. Pursuant to Public Resources Code (PRC) Section 21084.1, a project that may cause a substantial adverse change in the significance of a historical resource is a project that may have a significant effect on the environment. Section 21083.2 requires agencies to determine whether proposed projects would have effects on unique archaeological resources.

Historical resource is a term with a defined statutory meaning (see PRC, Section 21084.1 and CEQA Guidelines, Section 15064.5(a) and (b)). The term embraces any resource listed in or determined to be eligible for listing on the CRHR. The CRHR includes resources listed in or formally determined eligible for listing in the National Register of Historic Places (NRHP), as well as some California Historical Landmarks (CHLs) and Points of Historical Interest (CPHIs).

Properties of local significance designated under a local preservation ordinance (local landmarks or landmark districts) or identified in a local historical resources inventory may be eligible for listing in the CRHR and are, therefore, presumed historical resources for purposes of CEQA (PRC, Section 5024.1 and California Code of Regulations, Title 14, Section 4850). A lead agency should consider such resources potentially eligible for the CRHR unless the resource was demolished, lost substantial integrity, or if a preponderance of evidence exists demonstrating the resource is not eligible for listing.

Lead agencies also have a responsibility to evaluate potential historical resources not previously designated under a local preservation ordinance or identified in a historical resources inventory against the CRHR criteria prior to determining the project's overall effect on the environment under CEQA (PRC, Section 21084.1 and CEQA Guidelines, Section 15064(a)(3)). The following criteria are used to evaluate the significance of potential historical resources for the proposed project. An effect is considered significant if the proposed project impacts the specific qualities that render a resource eligible for listing in the NRHP and/or the CRHR.

##### **3.1.1) State Significance Criteria**

Generally, a resource is considered significant under CEQA if it possesses sufficient integrity and demonstrates eligibility under at least one (1) of the following criteria (California Code of

Regulations 15064.5):

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

As noted above, lead agencies must also consider whether a project will affect unique archaeological resources. PRC Section 21083.2(g) defines a unique archaeological resource as an archaeological artifact, object, or site about which it can be clearly demonstrated that, without merely adding to the current body of knowledge, there is a high probability that it meets any of the following criteria:

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

### 3.1.2) Local Regulations

The Project area totals ±3.73 acres and is located within the unincorporated community of Idyllwild (Figures 2 and 3). This report was prepared with reference to the Riverside County Planning Department Cultural Resource Review website (Riverside 2020a) and Cultural Resources (Archaeological) Investigations Standard Scopes of Work (Riverside 2020b). This study also considers the Idyllwild Downtown Historic District guidelines as discussed below.

#### *Riverside County Guidelines for Cultural Resources Review*

The County of Riverside has created a series of guidelines and task lists for regional archaeologists to follow when completing cultural resources assessments that are based upon the parameters of CEQA (Riverside 2020a and 2020b). The County has identified four (4) phases of archaeological assessments and resultant reports:

Phase I: Initial Survey

Phase II: Test or Evaluation

Phase III: Data Recovery

Phase IV: Monitoring and Final Mitigation

According to the County Cultural Resources (Archaeological) Standard Scopes of Work (Riverside 2020b), the Phase I report should consist of initial records, map, or literature searches, an SLS with the NAHC, information scoping with the tribes recommended by the NAHC, systematic field survey, cultural resource recordation, and evaluation (if possible). If cultural resources are detected during the Phase I inspection, these must be recorded on DPR 523 Forms and must be evaluated for significance during the environmental compliance process. If cultural resources are found during Phase I and cannot be evaluated unless additional work is conducted, a Phase II (Test or Evaluation) study could be recommended.

The Phase II study is recommended by the County to gather additional information about detected cultural resources for identification and evaluation purposes in order to complete the environmental review process. If the results of a Phase II test or evaluation fail to find a resource significant or eligible for listing in the CRHR or that is unique, then this Phase II study may constitute sufficient mitigation for a resource.

Phase III studies are recommended if a resource would be destroyed in the future or if significant value can be obtained from the resource. These studies generally occur when a resource has been found significant through the Phase II test and evaluation process and the resource is threatened by impending destruction.

A Phase IV report is required to present any information recovered as a result of mitigation monitoring programs and is intended to ensure compliance with project conditions and to complete the archaeological data available for a specific resource or project area.

When completing these CEQA-level studies, the County has instructed regional archaeologists to adhere to specific rubrics for creating phased reports. The requirements for a Phase I or initial survey archaeological report are found on the County Planning website (Riverside 2020a). The current Phase I report outline mirrors the OHP recommended ARMR report format and includes sections to discuss project area location, current conditions, background history, and findings. There are also sections to present methods, records search results, pedestrian survey results, discussion of resources detected, and recommendations for additional work, where necessary.

The County additionally requires paperwork regarding notifications to the Planning Department

of forthcoming archaeological reports and significance checklists for specific project areas. All phased archaeological reports created for Riverside County review must be signed by a current Riverside County certified archaeologist. For an archaeologist to maintain their registry status, the archaeologist or consulting firm must maintain a current Memorandum of Understanding (MOU) with the County.

### *Riverside County Landmarks*

To be eligible for consideration as a Riverside County Historic Landmark, a historic resource must be nominated through the following application and approval process.

A. Historical resources that may be considered by nomination include:

- Historical resources found eligible for local, state, or national landmark status during CEQA cultural review.
- Historical resources found as eligible for local, state, or national landmark status during a historic resource survey.
- A historic resource or district already designated under a municipal or county preservation or landmark ordinance. (Riverside County Historic Preservation Districts are established by a different set of criteria under Riverside County Ordinance 578 and are not established under the criteria and procedures contained in this document).
- Nominations for historic resources not already having some level of landmark designation, or found to be eligible for such, will be reviewed under criteria established below in Section IV, Types of Historical Resources and Criteria for Listing.

VI. Types of Historic Resources and Criteria for Listing: The typology and criteria listed below are consistent with those developed by the California Office of Historic Preservation but have been modified for local application at the county level.

A. Types of resources eligible for nomination:

- A. Building: A resource, such as a house, barn, church, factory, hotel, or similar structure created principally to shelter or assist in carrying out any form of human activity.

- B. Site: A site is the location of a significant event, a prehistoric or historic occupation or activity, or a building or structure, whether standing, ruined, or vanished, where the location itself possessed historical, cultural, or archaeological value. A site need not be marked by physical remains if it is the location of a prehistoric or historic event. Nor is it required that a building, structure, or object marked the site at the time of its historic significance, occupation, or activity. Examples include trails, landscape features, battlefields, habitation sites, Native American ceremonial areas, and rock art.
  - C. Structure: The term “structure” is used to describe a construction made for a functional purpose rather than creating human shelter. Examples include mines, flumes, roads, bridges, and tunnels.
  - D. Object: The term “object” is used to describe those constructions that are primarily artistic or commemorative in nature, relatively small in scale, and associated with a specific setting or environment. Objects that are located in museums are not eligible for landmark listing. Examples include fountains, monuments, maritime resources, sculptures, and boundary markers.
  - E. Historic Districts: A geographic area designated as containing multiple historic resources that collectively have a special character or value – historical, cultural, architectural, archaeological, community, or aesthetic. A district must meet at least one of the criteria discussed below in Section B.
- B. Criteria for evaluating the significance of historic resources: To be considered a historic resource eligible for landmark listing, the resource must be at least 45 years of age at the time of nomination. A historic resource must be significant under one or more of the following criteria in order to qualify for listing as a Riverside County Historic Landmark.
- 1) It is associated with events that have made a significant contribution to the broad patterns of Riverside County’s history and cultural heritage.
  - 2) It is associated with the lives of persons important to the history of Riverside County or its communities.
  - 3) It embodies the distinctive characteristics of a type, period, Riverside County region, or method of construction, or represents the work of an important creative individual or possesses high artistic values.

- 4) It has yielded or may be likely to yield, information important in Riverside County, state of California, or national prehistory or history.

Integrity: Historical resources that have been preserved, rehabilitated, or restored according to the U. S. Secretary of Interior's standards for integrity will be given the highest consideration in the approval process.

Reconstructed buildings will not be considered for landmark status unless they are more than 45 years old and embody traditional building methods and techniques or they exhibit high artistic values in the execution of the reconstruction.

### **3.2) Methods**

The purpose of this technical report is to provide the County of Riverside with information necessary to determine whether the Project would cause an adverse change to a historical resource, as defined in PRC §5020.1(j) and, therefore, result in a significant impact to the environment under CEQA. To accomplish this objective, L&L completed a historical resources records search, historical and geoarchaeological background research, coordinated with the Native American Heritage Commission (NAHC) and local Native American tribes, organizations, and individuals, and conducted a systematic survey of the entire Project area.

This investigation included the following tasks:

- Review of regional history and previous cultural resource sites and studies within the Project area and the vicinity.
- Examination of archival topographic maps and aerial photographs for the Project area and the general vicinity.
- Request of an NAHC SLS for the Project area and contact with Tribal groups and individuals as named by the NAHC.
- Non-collection Phase I pedestrian survey of the Project area.
- Evaluation of the potential for the proposed project to result in significant impacts to cultural resources, including the potential to impact buried cultural resources with no surface expression.
- Development of recommendations associated with impacts to cultural resources following guidelines as outlined in the Regulatory Setting.

### 3.2.1) Cultural Resources Records Search

EIC Information Officer Eulices Lopez completed the cultural resources records search of the Project area on January 27, 2021 at the EIC located on the campus of the University of Riverside, California. The records search included a review of EIC maps (Appendix B) to identify previously recorded resource records and historical resource studies on or within a one-mile radius of the Project area. In addition, the records search included a review of the NRHP, Archaeological Determinations of Eligibility (ADOE), and the Built Environment Resources Directory (BERD).

### 3.2.2) Historic Records Review

L&L reviewed pertinent General Land Office (GLO) maps and records on file with the BLM (BLM 2020) and archival topographic maps and aerial photographs of the Project area were also reviewed (NETR 2020). In addition, parcel records and maps available through the County of Riverside Property Information Website were also reviewed.

### 3.2.3) Native American Coordination

L&L notified the NAHC of the Project and requested a record search of the Sacred Lands File (SLS) on September 21, 2020. The NAHC responded in writing on September 25, 2020, reporting positive findings and recommending that local Native American tribes, organizations, and individuals identified on the attached NAHC list be contacted for more information (Appendix D). L&L contacted the tribes, organizations, and individuals in writing on September 29, 2020 (Appendix D). The letters provided a description of the Project and its location and requested information regarding Native American resources within or near the Project area. As of the date of this report, L&L received five (5) responses by email and in writing from the Agua Caliente Band of Cahuilla Indians (ACBCI), the Cabazon Band of Mission Indians, the Cahuilla Band of Indians, the Quechan Tribe at Fort Yuma, and the Rincon Band of Luiseno Indians. All correspondence completed to date is presented in Table 3 of this report and is included in Appendix D.

### 3.2.4) Pedestrian Survey

The primary purpose of a cultural resource pedestrian survey is to assess the condition of previously recorded resources, identify historic resources and/or unique archaeological resources, and to assess the Project's potential to impact historic resources. The Project area was surveyed on February 18, 2021 by L&L archaeologist William Gilleen utilizing the block-

transect method with east-west trending transects. Transect intervals measured no more than 15 meters and the Project area was surveyed in its entirety (100 percent). During the survey, digital photographs were taken to document current conditions.

In the event cultural resources 50 years of age or older are detected during the survey, efforts would be made to measure, photograph, and map the resources in the field. Resource locational data would be recorded using a GPS device using Universal Transverse Mercator (UTM), North American Datum of 1983 (NAD83). All data obtained in the field would be recorded onto appropriate DPR 523 Forms.



## 4.0) RESULTS

### 4.1) Cultural Resources Records Search

The results of the records search indicate that no previous cultural resource survey has occurred within the Project area. However, at least 28 area-specific studies were completed within a half-mile radius. The reports include pedestrian survey, an analysis of materials collected from the surface of a historic refuse scatter, and results of archaeological monitoring programs. No archaeological excavation reports were identified within the scope of the records search. The details of these reports are summarized below in Table 1.

Table 1. Previous Cultural Resources Studies Within One Mile of the Project Area.

Report #	Date	Rsrcs	Report	Author
RI-00240	1977	No	Preliminary Cultural Resource Review and Archaeological Survey for the San Jacinto Mountain Area Water Study: Clean Water Grant Project C-06-1374.	Diane Everett and Ken Hedges, San Diego Mesa College
RI-00737	1979	No	An Archaeological Survey of the Frank Lloyd Wright Property Idyllwild, California	Clifford V. F. Taylor, Archaeological Consulting & Technology, Inc., San Diego
RI-03542	1992	No	Archaeological Reconnaissance Report: Deer Springs Trail Reroute	Marilyn Mlazovsky, San Bernardino National Forest
RI-03869	1994	No	Archaeological Reconnaissance Report: Paint Room Disposal	Marilyn Mlazovsky, San Bernardino National Forest
RI-04232	1997	Yes	San Bernardino National Forest Archaeological Reconnaissance Report: Foster Lake Land Exchange.	San Bernardino National Forest
RI-04747	2004	No	Letter Report: Proposed Cellular Tower Project in Riverside County, California, Site CA-8567A, Idyllwild	Erika Thai, Earthtouch, Inc.
RI-04776	2003	No	Letter Report: Monitoring Bug Tree Removal Project	James J. Schmidt, Compass Rose Archaeological, Inc.
RI-04966	2003	No	An Archaeological Record Search on the New Rockdale Reservoir, Idyllwild Water District, Idyllwild, County of Riverside, California	Leslie Nay Irish, L&L Environmental, Inc.
RI-05077	2004	Yes	Letter Report: Cultural Resources Survey of Approximately 200 Acres at the Riverside County Park in Idyllwild, CA for the National Resources Conservation Service.	Applied Earthworks
RI-05878	2003	No	Negative Archaeological Survey Report, Southern California Edison, Bug Tree Removal Project, Idyllwild and Pine Cover Areas.	Compass Rose
RI-06631	2005	No	Historical/Archaeological Resources Survey Report, Idyllwild Water District Test Well Nos. 5, 6A, and 6B, Idyllwild Area, Riverside County, California	Bai "Tom" Tang, Michael Hogan, Adrian Sanchez Moreno, and Harry Quinn

Report #	Date	Rsracs	Report	Author
RI-07138	2007	No	Archaeological Survey Report for Southern California Edison Company: Deteriorated Pole Replacement Program for Four Poles (2173027E and 312561S on the Reakes 12kV Circuit, 4415820 on the Nations 12kV Circuit, and 1588230E on the Fern 12kV Circuit) on Public and Private Lands in Riverside County, California	Stacey C. Jordan, Jones & Stokes
RI-07263	2007	No	Negative Archaeological Survey Report for Southern California Edison Pine Cover 12kV Deteriorated Pole Replacement Project, San Bernardino National Forest	James Schmidt, Compass Rose
RI-07414	2007	No	Archaeological Survey Report for Southern California Edison Company Deteriorated Pole Replacement Program for a Total of Eight Poles on the Idyllbrook 2.4 kV (220896S), Saunders 12kV (1861CTW, 218932S, and 2105625E), Pincecone 12 kV (218558S and 1954529W), Fern 2.4 kV (1834248E), and Idyllwild 4 kV (1569934E) Circuits in Riverside County, California	Koji Tsunoda, Jones & Stokes
RI-08197	2008	No	Confidential Archaeological Letter for the Allen Forest Fire Prevention Exemption, Riverside County, California	John S. Kessler, Black Fox Timber Management Group, Inc.
RI-08220	2007	No	Confidential Archaeological Letter for the David Forest Fire Prevention Exemption, Riverside County, California	John S. Kessler, Olympic Resource Management
RI-08222	2007	No	Confidential Archaeological Letter for the Asaro Forest Fire Prevention Exemption, Riverside County, California	John S. Kessler, Olympic Resource Management
RI-08344	2009	No	Historical/Archaeological Resources Survey Report: Assessor's Parcel Numbers 561-032-010 and 5655-091-006, in the Community of Idyllwild, Riverside County, California	Bai "Tom" Tang, Michael Hogan, Terri Jacquemain, and Laura Hensley Shaker
RI-08603	2007	No	Letter Report: Confidential Archaeological Letter for the Fulton Forest Fire Prevention Exemption, Riverside County, California.	M. Rogers, and J. Kessler
RI-08778	2011	Yes	Letter Report: Site Recordation and Sensitivity Assessment for Site 33-019861 (CA-RIV-10107) Located near 26040 Boulder Drive, Idyllwild, CA 92549.	CRM Tech
RI-08847	2012	No	Phase IV Archaeological Monitoring for the Idyllwild Playground Project	Larrynn Carver, Idyllwild Community Center
RI-09436	2015	No	A Phase I Cultural Resource Assessment for the Idyllwild Community Center Project, Conditional Use Permit No. 3673-RI, Riverside County, California.	Brian F. Smith and Associates Inc.
RI-09655	2014	No	Archaeological Sensitivity Assessment VZT Bicknell/ Ensité #22137 (296234) Ridgeview Drive, Unaddressed Parcel Idyllwild, Riverside County, California 92549 EBI Project# 61146784 TCNS Number:120060.	EBI Consulting
RI-09671	2016	No	Cultural Resource Records Search and Site Visits Results for Cellco Partnership and their Controlled Affiliates doing business as Verizon Wireless Candidate 'VZT Bicknell II', 54300 Village Center Rd, Idyllwild, Riverside County, California.	Helix Environmental Planning, Inc.
RI-10034	2013	No	FEMA, HMGP-DR-1810-CA Riverside County Shake Shingle Roof Replacement Project.	Simpson, Gumpertz, and Heer

Report #	Date	Rsrcs	Report	Author
RI-10640	2019	Yes	An Archaeological Survey Report for the Red HILL VMP, Riverside County, California.	Cal Fire
RI-10738	2019	Yes	An Archaeological Survey Report for the Point of Rocks Hazardous Fuel Reduction Riverside County, California.	Cal Fire
RI-10778	2019	No	Cultural Resource Monitoring Report for the Idyllwild Community Center Project at 54201 Ridge View Drive in Idyllwild, unincorporated Riverside County, California.	Brian F. Smith & Associates

These and similar studies resulted in the identification of at least 21 previously recorded cultural resources within the scope of the records search. Identified resources include 10 archaeological resources (4 prehistoric, 3 historic, and 2 mixed-component sites with both prehistoric and historic-age material, and 1 possible protohistoric site) and 9 built-environment resources including the Idyllwild Inn, a bridge, a residential complex, an industrial building, and several roads or trails. One (1) additional record obtained from the EIC is a California Point of Historical Interest form for the entire community of Idyllwild, which encompasses the Project area. All other previously recorded cultural resources lie outside the Project area limits.

Prehistoric archaeological resources identified within a 0.5-mile radius include four (4) bedrock milling sites including 33-000416, which is approximately 100 feet west of the Project area on the opposite side of State Route 243. This bedrock milling site contains at least six (6) bedrock outcrop features with 46 mortars and four (4) slicks and represent the remains of a seasonal camp, likely associated with the annual gathering of acorns. The possible protohistoric site contains thermal features, a rock shelter or cave, and a mix of flaked and ground stone artifacts, ceramics (including an effigy with apparent Mexican influence), and blue Russian trade beads. This site may also represent the remains of a seasonal camp or village. Historic archaeological sites include two (2) complex refuse scatters and a rock ring with associated can scatter. The mixed-component sites include a historic camp site with associated features and a prehistoric bedrock milling feature and metate fragment, and a sparse historic refuse scatter with a single prehistoric ground stone fragment. The details of these cultural resources are summarized below in Table 2.

Table 2. Previously Recorded Cultural Resources Located Within One Mile of the Project Area.

Resource Number	Recorder Name and Date	Resource Description	Within ~One to 0.5 Mile Radius	Within ~0.5 to 0.25 Mile Radius	Within ~0.25 Mile Radius	Within Project Area?
33-000086	Originally recorded by	Prehistoric: A bedrock milling site consisting of six (6) bedrock milling	—	●	—	No

Resource Number	Recorder Name and Date	Resource Description	Within ~One to 0.5 Mile Radius	Within ~0.5 to 0.25 Mile Radius	Within ~0.25 Mile Radius	Within Project Area?
	Johnston's, no affiliation, 1956.  Updated by D. Cowper of the ARU, 1974.	features and two (2) potsherds.				
33-000139	Eberhart, no affiliation, 1951	Possible Protohistoric: Bedrock mortars, cave, thermal features, and various artifacts consisting of ceramics, ground and flaked stone artifacts, a clay effigy exhibiting Mexican influence, and blue Russian trade beads.	●	—	—	No
33-00416	Originally recorded by G. Kingman of the ARU, 1967.  Most recently updated by M. Mealy, and R. Pettus of the California Department of Parks and Recreation, 1999.	Prehistoric: A bedrock milling site consisting of six (6) granitic outcrops with 46 mortars and 4 slicks.	—	—	●	No
33-003666	Originally recorded by Michael Sampson, California Department of Parks and Recreation, 1989.  Most recently updated by Marla Mealey & Roy Pettus, California Department of Parks and Recreation, 1999.	Historic: Complex refuse scatter with ceramics, sun-colored amethyst glass, wire nails, and metal fragments.	—	—	●	No
33-006975	Recorded by C. Purcell, University of California, Santa Barbara, 1979.	Historic (Built Environment): State Route 243 Bridge over Strawberry Creek.	●	—	—	No
33-008401	Recorded by Lee A. DiGregorio, Cleveland National Forest, 1997.	Historic: Complex refuse deposit with tin cans, glass, and ceramic fragments.	—	●	—	No
33-009520	Unknown.	Historic: California Point of Historical Interest for the town of Idyllwild.				
33-009610	Recorded by Marla Mealey and Roy Pettus, California Department of Parks and Recreation, 1999.	Mixed Component: Historic wood plank bridge, campsite with two rock ring, storage box, wood pile with logging cable and saw-cut stump, and associated refuse scatter. Prehistoric bedrock slick and metate fragment.	—	●	—	No
33-009611	Recorded by Marla Mealey and	Historic: Fire ring and sparse scatter of church key opened cans.	—	●	—	No

Resource Number	Recorder Name and Date	Resource Description	Within ~One to 0.5 Mile Radius	Within ~0.5 to 0.25 Mile Radius	Within ~0.25 Mile Radius	Within Project Area?
	Roy Pettus, California Department of Parks and Recreation, 1999.					
33-009623	M. Mealy, and R. Pettus of the California Department of Parks and Recreation, 1999.	Multi-component: A ground stone fragment, a rusted metal bucket, and a rusted bolt.	—	●	—	No
33-013991	Originally recorded by Donald J. Storm, Sequoia National Forest, 2004.  Updated by Scott Kremkau, SRI, 2011.	Historic (Built Environment): Residential complex with three large buildings and two smaller structures constructed between 1931 and the 1970s.	—	—	●	No
33-018021	J. Harrison of the California Department of Parks and Recreation, 2009.	Prehistoric: A single, granitic bedrock outcrop with three (3) mortars.	—	—	●	No
33-019861/ CA-RIV-10107	M. Hogan of CRM Tech, 2011.	Prehistoric: A bedrock milling site consisting of two (2) boulders with mortars.	●	—	—	No
33-020591/ CA-RIV-10492	J. Trampier of the SRI, 2011.	Historic (Built-Environment): A segment of asphalt covered Ridgeview Drive believed to have been constructed circa 1940.	—	●	—	No
33-020592/ CA-RIV-10493	J. Trampier of the SRI, 2011.	Historic (Built-Environment): A segment of asphalt covered North Circle Drive believed to have been constructed circa 1940.	—	—	●	No
33-020593/ CA-RIV-10494	J. Trampier of the SRI, 2011.	Historic (Built-Environment): Two segments of asphalt covered Pine Crest Avenue and Maranatha Drive believed to have been constructed circa 1940.	—	—	●	No
33-020605	J. Trampier of the SRI, 2011.	Historic (Built Environment): Deer Springs Trail.	—	●	—	No
33-020858/ CA-RIV-10782	J. Trampier of the SRI, 2011.	Historic (Built-Environment): Two segments of road, one asphalt covered and one packed earth. The road is visible on the 1944 Palm Springs 15-minute USGS topographic quad.	—	●	—	No
33-020859/ CA-RIV-10783	J. Trampier of the SRI, 2011.	Historic (Built-Environment): A segment of asphalt covered Jameson Drive visible on the 1957 Idyllwild 15-minute USGS topographic quad.	—	—	●	No
33-026108	Recorded by Justin Castells, EBI Consulting, 2015.	Historic (Built Environment): One story vernacular-style industrial building.	—	●	—	No
33-026571	Recorded by K.A. Crawford, Historic Services, 2016.	Historic (Built-Environment): Idyllwild Inn.	—	●	—	No

## 4.2) Historic Records Review

Historic documents and plat maps available from the BLM GLO website were reviewed for information about historical land use and development within the Project area and general vicinity (BLM 2020). In addition, archival topographic maps dating between 1901 and 1959 and aerial photographs dating between 1972 and 2016 were also reviewed (USGS 1901, 1940, 1959; NETR 2020). Finally, Riverside County Property Information online records were examined for information regarding the Project area.

A review of land patents for Section 7 of Township 5 South, Range 3 East, San Bernardino Base Meridian indicate that the southeast quarter and the eastern half of the southwest quarter along with the northeast quarter and eastern half of the northwest quarter of Section 7, which includes the Project area, were part of a large land grant awarded to the Southern Pacific Railroad Company on July 27, 1866, under the auspices of the Grant-RR-Atlantic and Pacific (14 Stat. 292). By 1880 the area was surveyed by the Department of the Interior's General Land Office, resulting in a detailed topographic map of the section. Little development had occurred in the area (identified simply as "Mountain Valley") aside from a road to the north and south of the Project area and what may be a portion of Crawford's Toll Road constructed in the 1870s. More than a mile to the east, surveyors noted the presence of one (1) small house and to the southwest in Section 8 they noted the location of Bradley Moulton's Sawmill.

By 1901, the area was referred to as "Strawberry Valley" while the town of Rayneta, which included a post office established in 1893, lay to the west (USGS 1901). At least nine (9) structures were mapped in Strawberry Valley at this time. George Hannahs, a lumberman who constructed a sawmill near upper Dutch Flat, built the first hotel in Strawberry Valley and became the first postmaster in 1893, naming Rayneta after his son Raymond. George and Sarah Hannahs also built a summer camp, which they named "Camp Idyllwilde." The name of the town was permanently changed to Idyllwild in 1901.

Several historic roads to the San Jacinto logging camps may be observed on the 1901 USGS 15' *San Jacinto, CA* topographic map and were noted and titled by the 1940 USGS San Jacinto 15' and Palm Springs 15' maps. Historic roads noted in the area include *Red Hill Truck Trail* (#5S10), *San Jacinto Truck Trail* (#5S09), abandoned *Old Banning-Idyllwild Highway* (CA-RIV-6727H), *May Valley Truck Trail* (May Valley Road), and *Old Control Road* (#5S24).

The area witnessed significant development between 1902 and 1939, including the growth of downtown Idyllwild. No topographic maps or aerial photos dating to this historically significant

period of development were available for review during this investigation, but the history of the downtown district is well-documented in a previous study (see Sorell et al. 2009). According to parcel records, at least one (1) residence was constructed near the Project area at this time (Riverside County 2021a). This property, located at 25585 Alderwood Street (APN 563-242-008) and known as Idyllwild Dairy, lies adjacent to and east of the Project area (i.e., APN 563-250-031). The property now contains several buildings, including a large family residence and two (2) cabins one (1) of which is the original creamery building.

Riverside County parcel records indicate that portions of the Project area were within Subsection No. 3, Lots 33, 34, and 36 of the 1913 Idyllwild Mountain Park Tract. This includes the eastern portion of APN 563-250-028 (Lot 36) and APN 536-250-031 (Lots 33 and 34). The western portion of APN 563-250-028 and the entirety of APN 563-250-017 were outside, but adjacent to, the Idyllwild Mountain Park Tract. By 1940, USGS topographic maps depict Oakwood Street along with one (1) building, presumably Idyllwild Dairy, and multiple structures to the south and west. According to parcel records, at least two (2) additional wood framed single-family residences were constructed in the late 1940s on neighboring parcels (Riverside County 2021b and 2021c). This included the residences at 25630 (APN 563-242-018) and 25625 (APN 563-250-002). In 1954, another residence was constructed on a neighboring parcel (APN 563-242-007) at 25575 Alderwood Street (Riverside County 2021d).

Little information could be gleaned from the 1959 topographic maps, which depict roads and little else in the Project vicinity. Similarly, aerial photos dating between 1972 and 2016 lacked sufficient detail and clarity to assess development in the Project vicinity, except for the borrow pit depicted on the 1981 USGS topographic map, which is visible in the 1972 aerial photo, and the motel, constructed ca. 1978 at 25840 Idyllwild Road, which is also visible in the aerial photo taken that same year. Aside from the borrow pit site, which was in use sometime prior to 1972, no buildings, structures, or objects of historic age were observed within the Project area.

However, according to local resident Keith Smith, a building constructed in the 1930s or 1940s did exist in the northern portion of the Project area near the borrow pit (personal communication, March 4, 2021). This building was known as the “Ram’s Den” and would later be used as a party house for visiting Hell’s Angels. The house fell into disrepair and was eventually torn down in the mid to late 1970s. The borrow pit was used as a source of decomposing granite for local construction projects and was mined for many years. According to longtime Idyllwild resident Dennis McDougall, the area was also a large homeless camp that was cleared out recently by the town (personal communication, March 5, 2021).

### **4.3) Geoarchaeological Assessment**

Geologic maps consulted during this study indicate the Project area is underlain by Pleistocene-age alluvial deposits (Qoa). These deposits likely predate the arrival of people in the San Jacinto Mountains, which could have occurred as early as the early Holocene; however, no terminal Pleistocene or early/middle Holocene archaeological sites are known in the San Jacinto Mountains. The earliest known archaeological site in the region lies approximately 21 miles to the east by northeast in San Jacinto Valley. CA-RIV-6069, radiocarbon dated to cal BP 9,475-8,530, is an early Holocene occupation site found at a depth of greater than 2 meters below ground surface. The site contained flaked, ground, and battered stone artifacts, faunal remains and bone artifacts, and some of the earliest ceramics identified in southern California (Horne and McDougal 2008).

No geotechnical studies or archaeological excavation reports were found to verify the presence or absence of deeply buried Holocene age deposits in Strawberry Valley. Considering the age of subsurface alluvial deposits underlying the Project area we presume that Holocene-age soils and sediments are limited to surface and near surface (0-24 inches?) deposits. Prehistoric bedrock milling site and possible seasonal camp CA-RIV-416 lies approximately 100 feet west of the Project area on the opposite side of State Route 243. No artifacts were observed on the surface of this site and the available records do not mention the presence of potential midden soils or buried archaeological deposits. Furthermore, the Project area is mostly disturbed and developed and it is likely that any prehistoric archaeological materials that may have existed were removed. In consideration of these findings, it is unlikely that intact, subsurface prehistoric archaeological deposits would be encountered during Project construction.

Parcels surrounding the Project area were developed between the 1920s and 1940s and there is a substantial historic refuse deposit approximately 400 feet west of the Project area. Regardless, the borrow pit site appears to be the only historic age development that occurred within the Project area. It is possible that historic refuse and/or features may exist on the surface of the Project area; however, it is unlikely that intact, buried, historical-archaeological deposits would be encountered during Project construction.

### **4.4) Native American Coordination**

An SLS was requested from the NAHC on September 21, 2020 and a response was received on September 25, 2020 (Appendix D). The NAHC responded in writing on September 25, 2020, reporting positive findings and recommending that local Native American tribes, organizations,



and individuals identified on the attached NAHC list be contacted for more information (Appendix D). Information scoping letters were sent to the 14 tribes and 21 individuals named by the NAHC on September 29, 2020 (Appendix D).

As a result of the information scoping process, five (5) tribes responded by email and in letters including the Agua Caliente Band of Cahuilla Indians (ACBCI), the Cabazon Band of Mission Indians, the Cahuilla Band of Indians, the Quechan Tribe at Fort Yuma, and the Rincon Band of Luiseno Indians. A sample of the scoping letter, response letters, and copies of all additional correspondence are included in Appendix D and a summary of the detail is provided below in Table 3.

Table 3. Summary of Native American Coordination.

Contact Name and Title	Contact Affiliation	Method of Contact and Date	Response	Action(s) Required?
Jeff Grubbe, Chairperson	Agua Caliente Band of Cahuilla Indians	Scoping letter sent via USPS on September 28, 2020	Patricia Garcia-Plotkin responded in a letter dated October 5, 2020 stating the Project area was within the tribe' Traditional Use Area. They requested the following: a copy of the record search results; a cultural resources inventory of the Project area by a qualified archaeologist; copies of any cultural resource documents; and the presence of an approved Agua Caliente Native American Cultural Resource Monitor during ground disturbing activities.	Provide tribe with a copy of the final Cultural Resource Assessment report. Tribe requests an approved tribal monitor during earth-moving activities.
Patricia Garcia-Plotkin, Director	Agua Caliente Band of Cahuilla Indians	Scoping letter sent via email on September 28, 2020	Patricia Garcia-Plotkin responded in a letter dated October 5, 2020 stating the Project area was within the tribe' Traditional Use Area. They requested the following: a copy of the record search results; a cultural resources inventory of the Project area by a qualified archaeologist; copies of any cultural resource documents; and the presence of an approved Agua Caliente Native American Cultural Resource Monitor during ground disturbing activities.	Provide tribe with a copy of the final Cultural Resource Assessment report. Tribe requests an approved tribal monitor during earth-moving activities.
Amanda Vance, Chairperson	Augustine Band of Mission Indians	Scoping letter sent via email on September 28, 2020	No response to date.	N/A
Doug Welmas, Chairperson	Cabazon Band of Mission Indians	Scoping letter sent via email on September 28, 2020	Judy Stapp responded in an email dated September 29, 2020, stating that the tribe had no specific archival information regarding cultural resources in the Project area.	None
Daniel Salgado, Chairperson	Cahuilla Band of Indians	Scoping letter sent via email on September 28, 2020	BobbyRay Esparza responded by email on September 28, 2020, stating that although the Project area is outside the Tribe's reservation boundary it is within the Cahuilla Traditional Use Area. The tribe requests a Cahuilla Native American monitor be present during all ground-disturbing activities and to be notified of all project updates moving forward.	Request for Cahuilla Native American monitor during earth-moving activities. Provide project updates.

Contact Name and Title	Contact Affiliation	Method of Contact and Date	Response	Action(s) Required?
Shane Chapparosa, Chairperson	Los Coyotes Band of Cahuilla and Cupeño Indians	Scoping letter sent via email on September 28, 2020	No response to date.	N/A
Denisa Torrez, Cultural Resources Manager	Morongo Band of Mission Indians	Scoping letter sent via email on September 28, 2020	No response to date.	N/A
Robert Martin, Chairperson	Morongo Band of Mission Indians	Scoping letter sent via USPS on September 28, 2020	No response to date.	N/A
Shasta Gaughen, Tribal Historic Preservation Officer	Pala Band of Mission Indians	Scoping letter sent via email on September 28, 2020	No response to date.	N/A
Mark Macarro, Chairperson	Pechanga Band of Luiseno Indians	Scoping letter sent via email on September 28, 2020	No response to date.	N/A
Paul Macarro, Cultural Resources	Pechanga Band of Luiseno Indians	Scoping letter sent via email on September 28, 2020	No response received.	N/A
Manfred Scott, Acting Chairman Kw'ts'an Cultural Committee	Quechan Tribe of the Fort Yuma Reservation	Scoping letter sent via email on September 28, 2020	Jill McCormick responded in an email dated September 28, 2020 stating that the tribe had no comments on the project and deferred comments to more local tribes.	None
Jill McCormick, Historic Preservation Officer	Quechan Tribe of the Fort Yuma Reservation	Scoping letter sent via email on September 28, 2020	Jill McCormick responded in an email dated September 28, 2020 stating that the tribe had no comments on the project and deferred comments to more local tribes.	None
Joseph Hamilton, Chairperson	Ramona Band of Cahuilla	Scoping letter sent via email on September 28, 2020	No response to date.	N/A
John Gomez, Environmental Coordinator	Ramona Band of Cahuilla	Scoping letter sent via email on September 28, 2020	No response to date.	N/A
Cheryl Madrigal, Tribal Historic Preservation Officer	Rincon Band of Luiseno Indians	Scoping letter sent via email on September 28, 2020	Deneen Pelton responded in a letter dated September 30, 2020, stating that the project area is not in the tribe's area of historic interest and recommended contacting tribes that are closer to the project area.	None
Bo Mazzetti, Chairperson	Rincon Band of Luiseno Indians	Scoping letter sent via email on September 28, 2020	Deneen Pelton responded in a letter dated September 30, 2020, stating that the project area is not in the tribe's area of historic interest and recommended contacting tribes that are closer to the project area.	None
Lovina Redner, Chairperson	Santa Rosa Band of Cahuilla Indians	Scoping letter sent via email on September 28, 2020	No response to date.	N/A
Scott Cozart, Chairperson	Soboba Band of Luiseno Indians	Scoping letter sent via email on September 28, 2020	No response to date.	N/A

Contact Name and Title	Contact Affiliation	Method of Contact and Date	Response	Action(s) Required?
Joseph Ontiveros, Cultural Resource Department	Soboba Band of Luiseno Indians	Scoping letter sent via email on September 28, 2020	No response to date.	N/A
Michael Mirelez, Cultural Resource Coordinator	Torres-Martinez Desert Cahuilla Indians	Scoping letter sent via email on September 28, 2020	No response to date.	N/A

#### 4.5) Pedestrian Survey

L&L Archaeologist William R. Gillean, B.S., performed the pedestrian survey within the Project area on February 18, 2021. The Project area was surveyed via the block-transect method with a transect interval of no more than 15 meters. During the survey, north-south trending transects were completed throughout the ±3.73-acre Project area. Surface visibility was excellent (100 percent). Photographs of the Project area are included in Appendix C.

During the survey, the borrow pit was recorded as site WSCS-01H along with several large pieces of ferrous metal. A sparse historic glass scatter in the eastern portion of the Project area was also recorded as WSCS-03H. Finally, an isolated occurrence of historic ceramics was also noted (ISO-01H).

#### 4.6) Resources in the Project Area

Three (3) cultural resources that appear to be 50 years of age or older were identified within the Project area. These include the borrow pit site (WSCS-01H), a historic isolated (ISO-01H), and a sparse glass scatter (WSCS-03H). A description of each cultural resource is provided below and the location of these resources in relation to the Project area is depicted on Figure 5. The regulatory significance of all cultural resources identified in the Project area is evaluated against CRHR criteria and the criteria for unique archaeological resources, which is described in Section 3.1.1 of this report.

##### 4.6.1) WSCS-01H (Borrow Pit Site)

This site consists of a borrow pit (Feature 1) and three (3) large pieces of ferrous metal (Locus A). The borrow pit is oval and bowl-shaped measuring approximately 150 feet north to south by 71 feet east to west at the basin. Sidewalls around the pit vary in height from approximately 20 feet along the east side to 6 feet near Highway 243. There is an access to the borrow pit near

the southwest corner that is approximately 12 feet wide. The three (3) large pieces of ferrous metal may be associated with excavation of the borrow pit. Two (2) pieces appear to be portions of scoops or tubs. One (1) appears to be a hopper or barrow with an attached hinged stand. The potential scoops measure 3 feet 4 inches long by 1 foot 11 inches wide, and 3 feet 7 inches long by 1 foot 3 1/2 inches wide, respectively. The potential hopper/barrow measures 3 feet 4 inches long by 2 feet wide, with the hinged stand measuring 4 feet 3 inches long by 3 feet 4 inches wide. This piece was originally painted yellow. Each of the sections are replete with rivets or fasteners and sections also appear to be welded together.

The borrow pit was present by 1972 and its absence from the 1959 USGS topographic may indicate first use of the site sometime between 1960 and 1971. The exact start date of the pit's excavation could not be confirmed during this investigation and the lack of supporting records and documentation also make it difficult to determine what the materials excavated from the pit were used for. Considering its geographic location, the materials excavated from the site were most likely used locally, perhaps for road construction or improvement projects. According to local resident Keith Smith, the material from the pit was utilized for many years.

The site has attained no other distinction than its inclusion as a mapped documented borrow pit on the 1989 USGS quadrangle. It does not appear to be associated with any historically significant person, public works project or private development and it has made no contribution of the history of the town of Idyllwild. In consideration of these findings, site WSCS-01H does not possess characteristics, qualities, or attributes that would contribute to the significance of the town of Idyllwild (33-009520; California Point of Historical Interest 335), if the town were ever evaluated and found eligible for the CRHR. Thus, WSCS-01H does not appear eligible for the CRHR under Criteria 1, 2, or 3 individually or as a contributor. The information potential of the site is limited and contributes little to the history of Idyllwild and, therefore, is not eligible under Criterion 4.

Therefore, WSCS-01H is recommended not eligible for the CRHR and would not qualify as a historical resource under CEQA. The site does not have potential to answer important scientific research questions or exhibit potential for being a special or particular/unique resource and lacks clear historical association. Thus, the site does not appear to qualify as a unique archaeological resource under CEQA.

#### 4.6.2) WSCS-03H (Glass Scatter)

This site consists of a sparse historic ceramic and glass scatter. Artifacts include white

improved earthenware (N=2) and porcelain ceramic (N=2) fragments, and small shards of sun-colored amethyst (N=1), aqua (N=1), green (N=5), brown (N=2), and clear bottle glass (N=9). One (1) clear bottle base with the number 43 in a circle embossed, two (2) clear glass tumbler shards, a piece of frosted glass, and a glass electrical fuse embossed with 'ROYAL CRYSTAL USA -125 V-' were also noted. A 1 foot long by 1 inch diameter steel pipe was also observed, but this appears to be a modern inclusion.

Artifact manufacture dates range from as early as the late nineteenth century (e.g., sun-colored amethyst glass) through the 1970s or 80s (glass fuse labeled Made in USA) suggesting the deposit may represent a curated waste disposal site, and thus date to the latest period (i.e., 1970s-1980s), or be a repeated use residential disposal site reflecting multiple dates of deposition. The site extends into the Idyllwild Dairy property (APN 563-242-008) and may be associated with refuse disposal activities of the properties previous inhabitants. Unfortunately, potential association between the refuse and the dairy does not help establish the actual date (or dates) of deposition and it is unlikely that depositional dates could be ascertained through additional archaeological research.

Furthermore, the artifacts recorded in site are highly fragmented and widely dispersed with only two (2) small concentrations noted. The surface is heavily disturbed from routine land clearing by heavy machinery, off-road vehicular travel, and miscellaneous land use, including storage. No evidence of intact refuse pits, dumps, privies, burn piles, or other refuse processing or disposal activities that may indicate buried archaeological deposits was observed. Artifacts are likely limited to the surface or in secondary near surface deposits and are no longer in primary depositional context.

In consideration of these findings, site WSCS-03H does not have sufficient historical or depositional integrity to convey historical significance. In addition, the site does not possess characteristics, qualities, or attributes that would contribute to the significance of Idyllwild Dairy or the town of Idyllwild (33-009520; California Point of Historical Interest 335) if the dairy or town were ever evaluated and found eligible for the CRHR. Thus, WSCS-03H does not appear eligible for the CRHR under Criteria 1, 2, or 3 individually or as a contributor. Information potential of the site was exhausted through its recordation and it has made no significant contribution to the history of Idyllwild and, therefore, is not eligible under Criterion 4.

Therefore, WSCS-01H is recommended not eligible for the CRHR and would not qualify as a historical resource under CEQA. The site does not have potential to answer important scientific research questions or exhibit potential for being a special or particular/unique resource and

lacks clear historical association. Thus, the site does not appear to qualify as a unique archaeological resource under CEQA.

#### 4.6.3) ISO-01H (Isolated Ceramic Fragments)

The isolate consists of two (2) sherds of white improved earthen ware with a blue polychrome lithographic decoration. The larger sherd measures 1 1/8 inch by 1 1/4 inch by 1/8 inch and the smaller sherd measures 3/4 inch by 3/4 inch by 1/8 inch. The resource was encountered in a vacant lot within the extended stay lodging facility at UTM's 526570 mE 3734401mN (NAD83).

Typically, isolated artifacts are not considered "historical resources" or "unique archaeological resources" under CEQA because they lack association with important persons and events (Criteria 1 and 2), do not possess any distinctive characteristics of a type, period, region, or method of construction, represent the work of an important creative individual, or possess high artistic value (Criterion 3), and do not, on their own, possess the quantity or quality of data to address important research questions (Criterion 4). L&L recommends ISO-01H not eligible for the CRHR for the reasons stated above.

## **5.0) CONCLUSIONS AND RECOMMENDATIONS**

L&L performed a Phase I cultural resources assessment to identify, evaluate, and assess the impacts of the proposed development on historical resources in compliance with CEQA. During this investigation, L&L completed a record search at the EIC, historic records background research on the subject property, geoarchaeological assessment, pedestrian survey of the Project area, and coordinated with the NAHC and local Native American groups regarding sacred lands and other Native American resources.

The Project area lies within the town of Idyllwild, a California Point of Historical Interest, and portions of the Project area (APN 536-250-031 and the eastern portion of APN 563-250-028) were originally included in Idyllwild Mountain Park Tract Subdivision 3. Residential buildings were constructed on neighboring parcels between 1927 and 1953 but no structures were built within the Project area until 1978. The only clear evidence of historic land use within the Project area relates to the borrow pit site (WSCS-01H) in the northern portion of the Project area (APN 562-250-017). One (1) isolated find of historic ceramics (ISO-01H) and a sparse and diffuse scatter of historic glass and ceramics (WSCS-03H) that may be associated with Idyllwild Dairy were also recorded within the Project area, but date of the resource's deposition could not be correlated with manufacturing dates associated with the artifacts identified.

All three (3) cultural resources were evaluated and recommended not eligible for the CRHR. Furthermore, none of the resources possess characteristics, qualities, or attributes that would contribute to the significance of Idyllwild Dairy or the town of Idyllwild, should the dairy or town ever be evaluated and found eligible for the CRHR. Thus, WSCS-01H, WSCS-03H, and ISO-01H do not qualify as historical resources under CEQA and they require no further consideration during this study. In addition, the Project area appears to have low sensitivity for encountering in situ historic age or prehistoric archaeological resources during Project construction.

While mitigation monitoring is not recommended based on level of surface disturbance, lack of observed artifacts associated with CA-RIV-416, absence of evidence for potential buried deposits/midden, and limited Holocene soils, L&L recommends that industry standard provisions for the unanticipated discovery of human remains and cultural resources (see Sections 5.1 and 5.2 below) be included as conditions of approval for the Project and that no additional cultural resource technical studies be required prior to Project construction. With the implementation of these standard provisions, L&L concludes that development of the Project will not impact historical resources.

### **5.1) Unanticipated Discovery of Human Remains**

There is always the possibility that ground-disturbing activities during construction may uncover previously unknown buried human remains. If human remains are discovered during any phase of construction, including disarticulated or cremated remains, all ground-disturbing activities should cease within 100 feet of the remains and the County Coroner and the Lead Agency should be notified immediately.

California State Health and Safety Code 7050.5 dictates that no further disturbance shall occur until the County Coroner has made the necessary findings as to origin and disposition pursuant to CEQA regulations and PRC Section 5097.98. If the County Coroner determines that the remains are Native American, the NAHC shall be notified within 24 hours and the guidelines of the NAHC shall be adhered to in the treatment and disposition of the remains. The Lead Agency shall also retain a professional archaeologist with Native American burial experience to conduct a field investigation of the find and consult with the Most Likely Descendant, if any, identified by the NAHC. As necessary and appropriate, the archaeologist may provide professional assistance to the Most Likely Descendant, including excavation and removal of the human remains. The Lead Agency shall be responsible for approval of recommended mitigation as it deems appropriate, taking account of the provisions of State law, as set forth in CEQA Guidelines Section 15064.5(e) and PRC Section 5097.98. The project contractor shall implement approved mitigation measure(s), to be verified by the Lead Agency, prior to resuming ground-disturbing activities within 100 feet of where the remains were discovered.

### **5.2) Unanticipated Discovery of Cultural Resources**

It is always possible that ground-disturbing activities may uncover presently obscured or buried and previously unknown cultural resources. If buried cultural resources are discovered during construction, such resources could be damaged or destroyed, resulting in impacts to potentially significant cultural resources. If subsurface cultural resources are encountered during construction, if evidence of an archaeological site are observed, or if other suspected historic resources are encountered, it is recommended that all ground-disturbing activity cease within 100 feet of the resource. A professional archaeologist shall be consulted to assess the find and to determine whether the resource requires further study. Qualified archeological personnel shall assist the Lead Agency by generating measures to protect the discovered resources. Potentially significant cultural resources could consist of, but are not limited to: stone, bone, fossils, wood, or shell artifacts or features, including structural remains, historic dumpsites, hearths, and middens. Midden features are characterized by darkened soil and could conceal



material remains, including worked stone, fired clay vessels, faunal bone, hearths, storage pits, or burials and special attention should always be paid to uncharacteristic soil color changes. Any previously undiscovered resources found during construction should be recorded on appropriate DPR forms and evaluated for significance under all applicable regulatory criteria.

If the resources are determined to be unique historic resources, as defined under §15064.5 of the CEQA Guidelines, mitigation measures shall be identified by the monitor and recommended to the Lead Agency. Appropriate mitigation measures for significant resources could include avoidance or capping, incorporation of the site in green space, parks, or open space, or data recovery excavations of the finds. No further grading shall occur in the area of the discovery until the Lead Agency approves the measures to protect these resources. Any archaeological artifacts recovered as a result of mitigation shall be donated to a qualified scientific institution approved by the Lead Agency where they would be afforded long-term preservation to allow future scientific study.

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## 7.0) CERTIFICATION

CERTIFICATION: I hereby certify that the statements furnished above and in the attached exhibits present the data and information required for this archaeological report, and that the facts, statements, and information presented are true and correct to the best of my knowledge and belief.

DATE: April 14, 2021      SIGNED: \_\_\_\_\_  


PRINTED NAME: John, MA, RPA, L&L Archaeologist

DATE: April 14, 2021      SIGNED: \_\_\_\_\_  


PRINTED NAME: Leslie Nay Irish, CEO, L&L Environmental, Inc.

COUNTY REGISTRATION # 170

## APPENDICES

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**APPENDIX A**  
**Personnel Qualifications**

**John Eddy, M.A., RPA  
Principal Investigator  
Archaeologist**

John Eddy is the Cultural Resources Program Manager for L&L Environmental, Inc., is a Registered Professional Archaeologist (RPA), and meets the Secretary of Interior Standards for Principal Investigator.

Mr. Eddy has practiced cultural resource management for more than fifteen years including more than 10 years managing cultural resource projects and staff in the preparation of bids and proposals, contract negotiation and management, project development and design, budgeting, personnel management, as well as tasks related to the execution of archaeological technical studies (e.g., field survey, monitoring, testing and data recovery excavation, technical writing and editing, consultation, etc.) in compliance with Section 106 of the NHPA, NEPA, CEQA and other federal, state and local regulations. He has directed and administered professional on-call contracts with state and federal agencies including environmental on-call contracts service contracts with the California Department of Transportation (CALTRANS) District 8 and District 5 and the Riverside County Transportation Department. As a CALTRANS archaeologist, Mr. Eddy negotiated avoidance, minimization, and mitigation measures with multiple agencies and tribes. He is skilled in the development and implantation of National Register evaluations, data recovery plans, mitigation and monitoring plans, treatment plans, historic property preservation documentation reports, site protection plans, site impact reports, cultural landscape assessments, and buried site testing plans and reports.

Mr. Eddy's responsibilities include direct contact with clients/project proponents, scientists and agencies and involve him in all aspects of the project from a request for proposal to project completion. Mr. Eddy directs the cultural resources program, oversees all cultural and paleontological resource related projects and tasks, and provides QA/QC of cultural resource deliverables

## **PROFESSIONAL HISTORY**

2020-present – Cultural resources Program Manager/Principal Investigator L&L Environmental, Inc. Redlands, CA.

2019 – Project Archaeologist, CRM TECH, Inc., Colton, CA.

2017-2018 – Lecturer, California State University, San Bernardino, Department of Anthropology.

2013-2017 – Senior Archaeologist, Applied Earthworks, Hemet, CA.

2010-2013 – Associate Archaeologist, Applied Earthworks, Hemet, CA.

2009-2010 – Associate Environmental Planner (Archaeologist), CALTRANS District 8, San Bernardino, CA.

2008-2009 – Environmental Planner (Archaeologist), CALTRANS District 8, San Bernardino, CA.

2007-2008 – Project Archaeologist/Native American Liaison, CRM TECH, Colton, CA.

2007 – Archaeologist (GS-09-01), Inyo National Forest, Bishop, CA.

2003-2007 – Project Archaeologist/Native American Liaison, CRM TECH, Riverside, CA.

## **CREDENTIALS AND PERMITS**

- RPA Certified (990008)
- U.S. Government, ARPA Permit, Responsible Party
- Riverside County Certified Archaeologist
- CALTRANS PQS Principal Investigator (Prehistoric Archaeology)

**John J. Eddy, M.A., RPA**  
**Continued**

## **HONORS AND AWARDS**

Thesis of the Year Award: *The Early Middle Period Stone Bead Interdependence Network*.  
California State University, Northridge, Department of Anthropology, 2013.  
Begole Archaeological Research Grant for Geochemical Analysis of Soapstone from San Diego  
and Los Angeles Counties, 2008.  
Phi Kappa Phi Student Scholarship Award, 2007.  
Visiting Researcher, National Science Foundation Funded Program for Solid Samples Research  
in the Archaeological Sciences, IRMES, California State University, Long Beach, 2006-  
2012.  
Book Prize for Academic Excellence, California State University, Northridge, Department of  
Anthropology, 2005 and 2006.

## **EDUCATION**

M.A., Anthropology (Public Archaeology), California State University, Northridge, 2013.  
B.A., Anthropology, California State University, San Bernardino, 2003.  
B.A., History, California State University, San Bernardino, 2003.

## **PROFESSIONAL AFFILIATIONS**

Society for California Archaeology  
Coachella Valley Archaeological Society  
Society for American Archaeology

## **PROFESSIONAL DEVELOPMENT**

2014 – *Landscape Preservation: Advanced Tools for Managing Change*, National Preservation  
Institute. San Francisco.  
2012 – Section 4(f) Compliance for Historic Properties, National Preservation Institute. San  
Francisco.  
2010 – *Riverside County Cultural Sensitivity Training*. Riverside, CA.  
2010 – *CALTRANS Environmental Academy*, CALTRANS Environmental Staff Development.  
Irvine, CA.  
2010 – *ESRI ArcGIS II*, Caltrans District 8. San Bernardino, CA.  
2009 – *Categorical Exclusions (NEPA) and Categorical Exemptions (CEQA)*. CALTRANS  
Environmental Staff Development Los Angeles, CA.  
2008 – *CALTRANS Cultural Resource Procedures and Use of the Programmatic Agreement*.  
Caltrans Cultural Studies Office (CSO). Sacramento, CA.  
2008 – *Advanced GIS Applications*. California State University, Northridge.

## **PUBLICATIONS**

2009 Source Characterization of Santa Cruz Island Schist and Its Role in Stone Bead Exchange  
Networks. In Proceedings of the 7th Channel Islands Symposium, February 4-7, 2008,  
Oxnard, California.  
2008 The Cahuilla Indians: An Ethnological and Archaeological Literature Review. Coachella  
Valley Archaeological Society Occasional Papers No. 4.

**Leslie Nay Irish**  
**Principal Project Manager**  
**Cal Trans (CT) 022889**

Leslie Irish is the qualifying principal for WBE certification with CALTRANS, with both a State and Federal designation as a 100% WBE and Small Business Enterprise. Ms. Irish has multi-disciplinary experience in environmental, engineering, land development and construction management and administration.

Ms. Irish has more than 25 years of experience as a project manager on public and private NEPA / CEQA projects overseeing the areas of biology, archaeology, paleontology, regulatory services and state and federal level permit processing.

Ms. Irish is a certified to perform wetland / jurisdictional delineations and holds a responsible party permit for performing archaeological and paleontological investigations on (BLM) public lands. She has attended the desert tortoise handling class, passed the practicum and the test and was awarded a certificate. She remains an active participant in the oversight of mitigation monitoring and reporting programs, the installation and monitoring of revegetation programs and the development of project impact mitigation plans. Her principal office duties include a review of all environmental documents authored by the firm; oversight of regulatory permits, agency consultation and negotiations; impact mitigation review; and long-term permit compliance. Her field duties are more limited but include delineations / compliance monitoring and reporting (coordination), constraints analysis, plan for corrective measures and resolution of "problem projects".

Ms. Irish's responsibilities include direct contact with clients/project proponents, scientists and agencies and involve her in all aspects of the project from a request for proposal to project completion. Ms. Irish has a complex understanding of the industry from various perspectives. As a result, she uses her personal understanding of team member positions and responsibilities in her role as the principal management and quality control lead.

### **CREDENTIALS AND PERMITS**

- ACOE, Wetlands Delineation Certification Update, 2015
- ACOE, Advanced Wetlands Delineation and Management, 2001
- ACOE, Wetlands Delineation and Management, 1999, Certificate No. 1257
- U.S. Government, Permit for Archaeology & Paleontology on Federal Lands, Responsible Party
- MOU, County of Riverside, Archaeology, Biology, Paleontology and Wetlands ID/Delineation
- CALTRANS WBE Certification
- Public Utilities Commission, WBE Certified
- WBENC, WBE Certified

### **EDUCATION**

Certificate in Project Management, Initiating and Planning Projects, UC, Irvine, June 20, 2015  
Foundations of Business Strategy, Darden School of Business, UVA, Jan 2014  
Design Thinking for Business Innovation (audit), Darden School of Business, UVA, Nov 2013  
Update, Storm Water Management BMPs, University of California, Riverside Extension, 2005  
Certificate, Wetland Delineation & Management, ACOE, 2000 and Advanced Certificate: 2002  
Certificate Program, Field Natural Environment, University of California, Riverside, 1993

**Leslie Nay Irish**  
Continued

Certificate Program, Light Construction, Developmental Management, University of California, Riverside, 1987

Certificate Program, Construction Technologies, Administrative Management, Riverside City College, 1987

License B-General and C-Specialties (Concrete/Masonry) and General Law sections, 1986  
Core Teaching and Administrative Management, Primary (K-3) and Early Childhood, Cal State, San Bernardino, Lifelong Learning Program, 1973-2005

Behavioral Sciences and Anthropology, Chaffey and Valley Jr./Community Colleges, 1973 – 1976

## **PROFESSIONAL HISTORY**

**L&L Environmental, Inc.** - Principal, Project Manager / Principal in Charge: 1993 - present: Site assessments, surveys, jurisdictional delineations, permit processing, agency consultation/negotiation, impact mitigation, project management, coordination, report writing, technical editing, and quality control.

**Marketing Consultant** - Principal: 1990 - 1993: Engineering / architectural, environmental, and water resource management consultant.

**Warmington Homes** - Jr. Project Manager: 1989 - 1990: Residential development, Riverside and Los Angeles Counties.

**The Buie Corporation** - Processor / Coordinator: 1987 - 1990: The Corona Ranch, Master Planned Community.

**Psomas & Associates** - Processor / Coordinator- 1986 - 1987: Multiple civil engineering and land surveying projects.

**Irish Construction Company** – Builder Partner: (concurrently with above) 1979 - 1990: General construction, residential building (spec. housing), and concrete and masonry product construction.

## **PROFESSIONAL AFFILIATIONS**

Member, Building Industry Association

Member, Southern California Botanists

Member, Archaeological Institute of America

Member, Society for California Archaeology

Member, California Chamber of Commerce

Member, CalFlora

Member, San Bernardino County Museum Associates

Member, Orange County Natural History Museum Associates

Life Member, Society of Wetland Scientists

1994-97 President, Business Development Association, Inland Empire

1993-94 Executive Vice President, Building Industry Association, Riverside County

2010 Chair of the Old House Interest Group – Redlands Area Historical Society

## **SYMPOSIA, SEMINARS, AND WORKSHOPS**

Assembly Bill 52 Tribal Consultation Process Overview. Pechanga Band of Luiseno Indians Cultural Resources Group. Temecula, CA. October 2015

ACOE Compensatory Mitigation Workshop – Wilshire Blvd Office, July 16, 2015

May 27, 2015, CWA Rule, Update, San Diego CA, October 20-23, 2015



**Leslie Nay Irish**  
Continued

ACOE 2 Day Workshop, Mitigation Rule & Mitigation Checklist, Carlsbad, March 20, 2015  
Desert Tortoise Handling Class, update (DT Consortium / Joint Agencies USFWS/CDFG) 2013  
Update  
Bedrock Food Processing Centers in Riverside County, TLMA, 2009  
Nexus Geology-Archaeology, Riverside County, TLMA, 2009  
Desert Tortoise Handling Class, (DT Consortium / Joint Agencies USFWS/CDFG), 2008  
Certificate Granted  
Ecological Islands and Processes (vernal pools, alkali wetlands, etc.), Southern California  
Botanists, 2004  
Low Impact Development, State Water Board Academy, 2004  
Inland Empire Transportation Symposium, 2004  
Western Riverside County MSHCP Review and Implementation Seminar, 2004  
Field Botany and Taxonomy, Riverside City College, 2002  
Construction Storm Water Compliance Workshop, BIA, 2002  
Identifying Human Bone: Conducted by L&L Environmental, County Coroner and Page  
Museum, 2002  
CEQA/NEPA Issues in Historic Preservation, UCLA, 2000  
CEQA and Biological Resources, University of California, Riverside, 2000  
CEQA Law Update 2000, UCLA  
Land Use Law/Planning Conference, University of California, Riverside  
CALNAT "95", University of California, Riverside  
Desert Fauna, University of California, Riverside  
Habitat Restoration/Ecology, University of California, Riverside  
Geology of Yosemite and Death Valley, University of California, Riverside  
San Andreas Fault: San Bernardino to Palmdale, University of California, Riverside  
Historic Designations and CEQA Law, UCLA

**William R. Gillean, B.S.  
Archaeologist**

Mr. Gillean has gained more than 10 years of archaeological survey, testing, and excavation experience in Arizona, California, and Nevada. His duties at L&L include archaeological mitigation monitoring, Phase I surveys, California Historical Resources Information System (CHRIS) research, Native American Heritage Commission (NAHC) Sacred Lands Search (SLS) requests, Native American information scoping, completion of site records, and assisting senior staff with technical reports. He has experience with a wide range of GPS data collectors, photographic equipment, and software programs. He holds a Bachelor of Science in Anthropology with an emphasis in Cultural Resource Management from Cal Poly, Pomona.

**PROFESSIONAL HISTORY**

- 2015-present – Archaeologist, L&L Environmental, Inc. Redlands, CA. Performs field surveys, research, and completes site recordation for projects in southern California. Contributes to technical reports.
- 2013-present – Archaeologist, First Carbon Solutions. Irvine, CA. Performs archaeological mitigation monitoring in San Bernardino and Riverside Counties, California.
- 2010-2015 – Archaeologist, Atkins. San Bernardino, CA. Performed field surveys, research, completed site records, contributed to technical reports, assisted with Native American information scoping letters, and coordinated with the NAHC for SLS requests. Performed archaeological mitigation monitoring in San Bernardino and Riverside Counties, California.
- 2006-2010 – Archaeologist, U.S. Department of Agriculture (USDA) Forest Service, Skyforest, CA. Performed field surveys, subsurface testing programs, and data recovery projects throughout the San Bernardino and Angeles National Forests in southern California. Completed site records, authored and contributed to technical reports, conducted archaeological reconnaissance and inventory of fire suppression activities in support of the Butler II, Grass Valley, Slide, and Station fires. Made recommendations for minimizing impacts to archeological sites and performed mitigation monitoring in archaeologically sensitive areas during project implementation.
- 2004-2007 – Archaeologist, L&L Environmental, Inc. Corona, CA. Performed field surveys, research, subsurface testing programs, and data recovery projects in Riverside, San Bernardino, and Inyo Counties, California. Contributed to technical reports and performed archaeological mitigation monitoring.
- 2003-2004 – Field Technician, Center for Archaeological Research, California State University, Bakersfield. Bakersfield, CA. Provided technical support for the archaeological reconnaissance and inventory of over 40 miles of the Southern California Edison power line corridor located within the San Bernardino National Forest.

**PROFESSIONAL DEVELOPMENT**

- 2010 – Applied NEPA. USDA Forest Service. San Bernardino, CA.
- 2008 – The Section 106 Essentials. USDA Forest Service. Sacramento, CA.

**EDUCATION**

B.S., Anthropology (Cultural Resource Management Emphasis) – 2002, Cal Poly, Pomona, CA

**CONFIDENTIAL APPENDIX B**

**EIC Records Search Results**

California Historical Resources Information System

CHRIS Data Request Form

ACCESS AND USE AGREEMENT NO.: 124 IC FILE NO.:

To: Eastern Information Center

Print Name: William (Bill) Gillean Date: 12-18-2020

Affiliation: L&L Environmental, Inc.

Address: 721 Nevada St. Suite #307

City: Redlands State: CA Zip: 92373

Phone: 909.335.9897 Fax: 909.335.9893 Email: Wgillean@llenviroinc.com

Billing Address (if different than above): 700 E. Redlands Blvd., Suite U-351

Billing Email: Bmangum@llenviroinc.com Billing Phone:

Project Name / Reference: WSCS-19-738.ARS

Project Street Address: Vicinity of Idyllwild Road and Oakwood Street, Idyllwild, CA 92549

County or Counties: Riverside

Township/Range/UTMs: T5S/ R3E (Section 7)

USGS 7.5' Quad(s): Idyllwild

PRIORITY RESPONSE (Additional Fee): yes [ ] / no [x]

TOTAL FEE NOT TO EXCEED: \$ (If blank, the Information Center will contact you if the fee is expected to exceed \$1,000.00)

Special Instructions: Please provide Option A results.

Information Center Use Only

Date of CHRIS Data Provided for this Request:

Confidential Data Included in Response: yes [ ] / no [x]

Notes:

California Historical Resources Information System

**CHRIS Data Request Form**

Mark the request form as needed. Attach a PDF of your project area (with the radius if applicable) mapped on a 7.5' USGS topographic quadrangle to scale 1:24000 ratio 1:1 neither enlarged nor reduced and include a shapefile of your project area, if available. Shapefiles are the current CHRIS standard for submitting digital spatial data for your project area or radius. **Check with the appropriate IC for current availability of digital data products.**

- Documents will be provided in PDF format. Paper copies will only be provided if PDFs are not available at the time of the request or under specially arranged circumstances.
- Location information will be provided as a digital map product (Custom Maps or GIS data) unless the area has not yet been digitized. In such circumstances, the IC may provide hand drawn maps.
- In addition to the \$150/hr. staff time fee, client will be charged the Custom Map fee when GIS is required to complete the request [e.g., a map printout or map image/PDF is requested and no GIS Data is requested, or an electronic product is requested (derived from GIS data) but no mapping is requested].

For product fees, see the CHRIS IC Fee Structure on the [OHP website](#).

**1. Map Format Choice:**

Select One: Custom GIS Maps  GIS Data  Custom GIS Maps and GIS Data  No Maps

**Any selection below left unmarked will be considered a "no."**

**Location Information:**

	Within project area	Within <u>0.50</u> mi. radius
<b>ARCHAEOLOGICAL Resource Locations<sup>1</sup></b>	yes <input type="checkbox"/> / no <input type="checkbox"/>	yes <input type="checkbox"/> / no <input type="checkbox"/>
<b>NON-ARCHAEOLOGICAL Resource Locations Report Locations<sup>1</sup></b>	yes <input type="checkbox"/> / no <input type="checkbox"/>	yes <input type="checkbox"/> / no <input type="checkbox"/>
<b>"Other" Report Locations<sup>2</sup></b>	yes <input type="checkbox"/> / no <input type="checkbox"/>	yes <input type="checkbox"/> / no <input type="checkbox"/>

**3. Database Information:**

(contact the IC for product examples, or visit the [SSJVIC website](#) for examples)

	Within project area	Within <u>0.50</u> mi. radius
<b>ARCHAEOLOGICAL Resource Database<sup>1</sup></b>		
List (PDF format)	yes <input type="checkbox"/> / no <input type="checkbox"/>	yes <input type="checkbox"/> / no <input type="checkbox"/>
Detail (PDF format)	yes <input type="checkbox"/> / no <input type="checkbox"/>	yes <input type="checkbox"/> / no <input type="checkbox"/>
Excel Spreadsheet	yes <input type="checkbox"/> / no <input type="checkbox"/>	yes <input type="checkbox"/> / no <input type="checkbox"/>
<b>NON-ARCHAEOLOGICAL Resource Database</b>		
List (PDF format)	yes <input type="checkbox"/> / no <input type="checkbox"/>	yes <input type="checkbox"/> / no <input type="checkbox"/>
Detail (PDF format)	yes <input type="checkbox"/> / no <input type="checkbox"/>	yes <input type="checkbox"/> / no <input type="checkbox"/>
Excel Spreadsheet	yes <input type="checkbox"/> / no <input type="checkbox"/>	yes <input type="checkbox"/> / no <input type="checkbox"/>
<b>Report Database<sup>1</sup></b>		
List (PDF format)	yes <input type="checkbox"/> / no <input type="checkbox"/>	yes <input type="checkbox"/> / no <input type="checkbox"/>
Detail (PDF format)	yes <input type="checkbox"/> / no <input type="checkbox"/>	yes <input type="checkbox"/> / no <input type="checkbox"/>
Excel Spreadsheet	yes <input type="checkbox"/> / no <input type="checkbox"/>	yes <input type="checkbox"/> / no <input type="checkbox"/>
Include "Other" Reports <sup>2</sup>	yes <input type="checkbox"/> / no <input type="checkbox"/>	yes <input type="checkbox"/> / no <input type="checkbox"/>

**4. Document PDFs (paper copy only upon request):**

	Within project area	Within <u>0.50</u> mi. radius
ARCHAEOLOGICAL Resource Records <sup>1</sup>	yes <input type="checkbox"/> / no <input type="checkbox"/>	yes <input type="checkbox"/> / no <input type="checkbox"/>
NON-ARCHAEOLOGICAL Resource Records Reports <sup>1</sup>	yes <input type="checkbox"/> / no <input type="checkbox"/>	yes <input type="checkbox"/> / no <input type="checkbox"/>
"Other" Reports <sup>2</sup>	yes <input type="checkbox"/> / no <input type="checkbox"/>	yes <input type="checkbox"/> / no <input type="checkbox"/>

California Historical Resources Information System

CHRIS Data Request Form

5. Eligibility Listings and Documentation:

Within project area      Within 0.50 mi. radius

**OHP Built Environment Resources Directory<sup>3</sup>:**

Directory listing only (Excel format)

yes  / no

yes  / no

Associated documentation<sup>4</sup>

yes  / no

yes  / no

**OHP Archaeological Resources Directory<sup>1,5</sup>:**

Directory listing only (Excel format)

yes  / no

yes  / no

Associated documentation<sup>4</sup>

yes  / no

yes  / no

**California Inventory of Historic Resources (1976):**

Directory listing only (PDF format)

yes  / no

yes  / no

Associated documentation<sup>4</sup>

yes  / no

yes  / no

6. Additional Information:

The following sources of information may be available through the Information Center. However, several of these sources are now available on the [OHP website](#) and can be accessed directly. The Office of Historic Preservation makes no guarantees about the availability, completeness, or accuracy of the information provided through these sources. Indicate below if the Information Center should review and provide documentation (if available) of any of the following sources as part of this request.

<b>Caltrans Bridge Survey</b>	yes <input type="checkbox"/> / no <input type="checkbox"/>
<b>Ethnographic Information</b>	yes <input type="checkbox"/> / no <input type="checkbox"/>
<b>Historical Literature</b>	yes <input type="checkbox"/> / no <input type="checkbox"/>
<b>Historical Maps</b>	yes <input type="checkbox"/> / no <input type="checkbox"/>
<b>Local Inventories</b>	yes <input type="checkbox"/> / no <input type="checkbox"/>
<b>GLO and/or Rancho Plat Maps</b>	yes <input type="checkbox"/> / no <input type="checkbox"/>
<b>Shipwreck Inventory</b>	yes <input type="checkbox"/> / no <input type="checkbox"/>
<b>Soil Survey Maps</b>	yes <input type="checkbox"/> / no <input type="checkbox"/>

<sup>1</sup> In order to receive archaeological information, requestor must meet qualifications as specified in Section III of the current version of the California Historical Resources Information System Information Center Rules of Operation Manual and be identified as an Authorized User or Conditional User under an active CHRIS Access and Use Agreement.

<sup>2</sup> "Other" Reports GIS layer consists of report study areas for which the report content is almost entirely non-fieldwork related (e.g., local/regional history, or overview) and/or for which the presentation of the study area boundary may or may not add value to a record search.

<sup>3</sup> Provided as Excel spreadsheets with no cost for the rows; the only cost for this component is IC staff time. Includes, but not limited to, information regarding National Register of Historic Places, California Register of Historical Resources, California State Historical Landmarks, California State Points of Historical Interest, and historic building surveys. Previously known as the HRI and then as the HPD, it is now known as the Built Environment Resources Directory (BERD). The Office of Historic Preservation compiles this documentation and it is the source of the official status codes for evaluated resources.

<sup>4</sup> Associated documentation will vary by resource. Contact the IC for further details.

<sup>5</sup> Provided as Excel spreadsheets with no cost for the rows; the only cost for this component is IC staff time. Previously known as the Archaeological Determinations of Eligibility, now it is known as the Archaeological Resources Directory (ARD). The Office of Historic Preservation compiles this documentation and it is the source of the official status codes for evaluated resources.