FINDING OF NO SIGNIFICANT IMPACT
FOR THE
PECHANGA WOLF VALLEY FEE-TO-TRUST PROJECT

AGENCY: Bureau of Indian Affairs

ACTIONS: Finding of No Significant Impact

SUMMARY:

The Pechanga Band of Luiseno Indians (Tribe) submitted a request to the Bureau of Indian Affairs (BIA) to transfer two parcels (APNs 961-020-026 and 962-010-007) (project site) into federal trust on behalf of the Tribe to be used for a future commercial project (Proposed Action). The project site is located in the City of Temecula near the intersection of Wolf Creek Drive and Pechanga Parkway (see EA Figure 2-1). Based upon the entire administrative record including analysis in a May 2022 Environmental Assessment (EA) the BIA makes a finding of no significant impact (FONSI) for the Proposed Action. This finding constitutes a determination that the Proposed Action is not a Federal action significantly affecting the quality of the human environment. Therefore, in accordance with Section 102(2)(c) of the National Environmental Policy Act (NEPA), 42 U.S.C § 4321 et seq., an Environmental Impact Statement (EIS) is not required.

PURPOSE AND NEED:

The purpose of the Proposed Action is to facilitate Tribal self-sufficiency, self-determination, and economic development. The need for the Department of the Interior to act on the Tribe's fee-to-trust application is established by regulations at 25 CFR Section 151 and the Tribe's needs related to facilitation of Tribal self-sufficiency, self-determination, and economic development. Additional details regarding the purpose and need can be found in EA Section 1.2.

ALTERNATIVES CONSIDERED:

Two alternatives are analyzed in the EA: the Proposed Action and a No Action Alternative. The Proposed Action is summarized above and includes the fee-to-trust transfer of two parcels of land totaling approximately 20 acres. The Tribe subsequently proposes to develop the parcel with a commercial development that is generally consistent with existing zoning. Under the No Action Alternative, no federal actions would occur, and the Tribe would not construct any developments. Additional details regarding the Proposed Action and Alternatives can be found in EA Section 2.

ENVIRONMENTAL IMPACTS:

Potential impacts to land resources, water resources; air quality; biological resources; cultural resources; socioeconomics; environmental justice; transportation; land use and agriculture;

public services; noise; hazardous materials; and visual resources were evaluated in the EA, with the following conclusions for the Proposed Action[1] (see EA Sections 3 and 4 for detailed analysis and for specific mitigation measures):

Land Resources
Land resources impacts could occur during the construction and operation of the project. No significant land resources impacts would occur.

Water Resources
Impacts to water resources would occur during construction and operation of the project. No significant land resources impacts would occur.

Air Quality
Impacts to air quality would occur during construction and operation of the project. Mitigation measures detailed in EA Section 5 would ensure air quality impacts are less than significant.

Biological Resources
Impacts to biological resources would occur from the development of the project. Mitigation measures detailed in EA Section 4 would ensure impacts to biological resources are less than significant.

Cultural Resources
Impacts to cultural resources could occur from the development of the project. Mitigation measures detailed in EA Section 4 would ensure impacts to cultural resources are less than significant.

Socioeconomics
Impacts to socioeconomics would occur during the fee-to-trust transfer and during the construction/operation of the project. No significant socioeconomics impacts would occur.

Transportation and Circulation
Impacts to transportation and circulation would occur during construction and operation of the project. No significant transportation and circulation impacts would occur.

Land Use and Agriculture
Impacts to land use and agriculture would occur during construction and operation of the project. No significant impacts would occur.

[1] The No Action Alternative would generally not result in detrimental impacts to the environment, therefore the impacts and mitigation measures detailed here are generally not applicable (see EA for more details). As noted in the EA, the No Action Alternative would not meet the purpose and need of the action.

Public Services
Impacts to public services would occur from the operation of the project. No significant impacts would occur.

Noise
Noise and vibration impacts would occur during construction and operation of the project. No significant noise impacts would occur.

Hazardous Materials
Hazardous materials impacts could occur during construction and operation of the project. No significant hazardous materials impacts would occur.

Visual Resources
Impacts to visual resource would occur from the development of the project. No significant impacts would occur.

PUBLIC AVAILABILITY:

A Notice of Availability for the EA and the unsigned FONSI was provided to agencies, organizations, and interested parties. These documents were made available for a 30-day review period. One comment letter was received during the public review and comment period from the City of Temecula. Responses to comments were prepared and the EA was revised in response to the City's comment letter. The comment letter, responses to comments, and revised EA are attached to this FONSI.

DETERMINATION:

It has been determined that the proposed Federal action to take approximately 20 acres of fee land into federal trust for the purpose of commercial development does not constitute a major federal action that would significantly affect the quality of the human environment. Therefore, in accordance with Section 102(2)(c) of the National Environmental Policy Act, 42 U.S.C § 4321 et seq., an Environmental Impact Statement is not required. This determination is supported by the findings described in this FONSI and the analysis contained in the entire administrative record, including the May 2022 EA, and the mitigation imposed. This fulfills the requirements of NEPA as set out in the Council on Environmental Quality Regulations for Implementing NEPA (40 C.F.R. 1500–1508), and the BIA NEPA Guidebook (59 IAM 3-H, August, 2012).

Approved: Date:

AMY DUTSCHKE Digitally signed by AMY DUTSCHKE Date: 2022.05.13 11:29:44 -07'00'

Regional Director
Bureau of Indian Affairs, Pacific Region

DUDEK
27372 CALLE ARROYO
SAN JUAN CAPISTRANO, CALIFORNIA 92675
T 949.450.2525 F 949.450.2626

MEMORANDUM

To:	Chad Broussard, Bureau of Indian Affairs
From:	Jonathan Rigg, Dudek
Subject:	Pechanga Wolf Valley Environmental Assessment (EA), Public Review Comment
Date:	May 6, 2022
cc:	Lindsey Dollman and Kelsey Stricker, Pechanga Tribe of Luiseno Indians
Attachment:	City of Temecula Comment Letter dated April 25, 2022

Public Review Summary for Wolf Valley Fee to Trust Project EA

The EA and an unsigned Finding of No Significant Impact (FONSI) for the Pechanga's Wolf Valley Fee to Trust Project underwent a 30-day public review and comment period between March 24, 2022, and April 25, 2022. A Notice of Availability for the EA was published in the Temecula Press-Enterprise on March 24, 2022. The EA was available to review via hard copy and electronically on the Pechanga government website. One comment letter was received during the public review and comment period from the City of Temecula.

City of Temecula Comment Letter (attached)

The City of Temecula's comment letter provided two substantive comments: 1) the APN for the northern parcel is incorrectly identified, and 2) the EA does not identify the fee-to-trust transfer's impact to the City from loss of potential future sales tax revenue.

Comment Response

1. The EA has been updated with the correct APN for the northern parcel throughout the document,

2. Sections 3.6.1.2 and 3.6.2 have been updated to address impacts to the City's potential loss of future sales tax revenue.

    a. Section 3.6.1.2 has been updated to provide existing sales tax revenue information for the City of Temecula and state that the parcels currently do not generate sales tax.

    b. Section 3.6.2 has been updated with the conclusion that because the parcels are not currently generating sales tax revenue for the City and potential future sales tax revenue generated by the commercial development would be a small component of the City's overall sales tax revenue, the loss of potential future sales tax revenue would result in minor long-term adverse impact to the City of Temecula tax revenue.

ATTACHMENT 1

City of Temecula Comment Letter

City of Temecula
City Council/City Manager
41000 Main Street • Temecula, CA 92590
Phone (951) 694-6444 • TemeculaCA.gov

April 25, 2022

Amy Dutschke
Pacific Regional Director
Bureau of Indian Affairs
Department of the Interior
2800 Cottage Way
Sacramento, CA 95825

Subject: Environmental Assessment and Finding of No Significant impact for the Pechanga Band of Luiseno Indians Proposed 20-acre Wolf Valley Fee-to-Trust Project

Dear Ms. Dutschke,

The City of Temecula (City) values and respects its close working relationship with the Pechanga Band of Luiseno Mission Indians of the Pechanga Reservation (Tribe). The City of Temecula appreciates the opportunity to provide comment on the Bureau of Indian Affairs (BIA) Environmental Assessment (EA), dated March 2022.

The City understands that the proposed project would transfer two parcels totaling approximately twenty (20) acres of property located within the City to federal trust and no development is proposed at this time, with a general assumption of future commercial development totaling 200,000 square feet.

Both parcels are located within the Wolf Creek Specific Plan (SP-12). The Wolf Creek Specific Plan area is a master planned community made up of 1,799 residential single-family homes, public elementary and middle schools, sports park, and a fire station. Regarding the two subject properties, the northern parcel was designated Neighborhood Commercial to provide pedestrian-oriented retail or convenience services to local residents in the surrounding neighborhoods. The southern parcel was designated Community Commercial for retail, professional office, and service oriented business activities serving the larger surrounding community,including the Pechanga Reservation. These properties were analyzed, and impacts mitigated under an approved and adopted

Environmental Impact Report (EIR). The EA assumes a build-out scenario consistent with the underlying zoning. Typically, the City would review a Development Plan application for consistency with the Specific Plan and EIR. Much of the City's discretionary review would focus on:

- Access and circulation to ensure efficient and safe movement of traffic;
- Commercial uses and sizes consistent with trip generation rates analyzed in the EIR;
- Noise impacts during construction and eventual operational impacts at buildout;
- Specific commercial use impacts and distancing requirements from the Elementary School;
- General compatibility with the surrounding residential development relative to buffers, setbacks, architecture, height, pedestrian integration and access and lighting; and
- Public Safety and Emergency Services Impacts.

The City understands that, if the subject sites are placed into trust, the eventual development would be free from the requirement to adhere to City zoning codes, development standards, and other City Ordinances. Should the intensity or type of commercial development change significantly, there may be impacts that have yet to be analyzed or mitigated.

In addition, the Assessor Parcel Number (APN) for the northerly parcel is referenced as 962-020-026 in Section 1.3 (Page 1), Section 2.1 and 2.2.1 (Page 4), and Section 3.8.1.2 (Page 44). This is inconsistent with the City's GIS Parcel data, and should be corrected to APN 961-020-026. Lastly, the Environmental Assessment reports lost revenue to Riverside County for property taxes, but does not report lost revenue to the City for sales taxes. The Sites are large commercially zoned properties potentially containing up to 200,000 square feet of sales tax revenue generating commercial space. When fully developed under the current zoning, these properties would produce tax revenue annually to the City.

The City of Temecula has previously communicated these potential impacts concerns directly with Tribal representatives. The City of Temecula appreciated the opportunity to share these concerns directly with the Tribe. The City of Temecula also respects the Tribe's reasoning and desire to place the Sites into Trust.

If you have any further questions, please contact Luke Watson, Deputy City Manager, at Luke.Watson@TemeculaCA.gov or (951) 694-6415.

Regards,

Aaron Adams
City Manager

cc: Aaron Adams, City Manager
Kevin Hawkins, Assistant City Manager
Peter Thorson, City Attorney

ENVIRONMENTAL ASSESSMENT/ TRIBAL ENVIRONMENTAL IMPACT REPORT

THE PECHANGA BAND OF LUISEÑO INDIANS FEE-TO-TRUST APPLICATION FOR THE WOLF VALLEY PROPERTY

May 2022

LEAD AGENCY:

U.S. Department of the Interior
Bureau of Indian Affairs
Pacific Region Office
2800 Cottage Way #W2820
Sacramento, CA 95825

PREPARED BY:

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LIST OF ACRONYMS AND ABBREVIATIONS

ACS	American Community Survey
AFY	acre-feet per year
AMSL	above mean sea level
APN	Assessor's Parcel Number
BIA	Bureau of Indian Affairs
BMP	best management practice
CalEEMod	California Emissions Estimator Model
Caltrans	California Department of Transportation
CBC	California Building Code
CCR	California Code of Regulations
CDFW	California Department of Fish and Wildlife
CEQ	Council on Environmental Quality

CESA	California Endangered Species Act
CFR	Code of Federal Regulations
CH_4	methane
City	City of Temecula
CNEL	community noise equivalent level
CO	carbon monoxide
CO_2	carbon dioxide
CO_2e	carbon dioxide equivalent
CWA	Clean Water Act
dBA	A-weighted decibel
EA	Environmental Assessment
EIR	Environmental Impact Report
EMWD	Eastern Municipal Water District
EO	Executive Order
ESA	Environmental Site Assessment
FESA	federal Endangered Species Act
FONSI	Finding of No Significant Impact
GHG	greenhouse gas
GWP	global warming potential
HFC	hydrofluorocarbon
HVAC	heating, ventilation, and air conditioning
I	Interstate
IAM	Indian Affairs Manual
ITE	Institute of Transportation Engineers
MGY	million gallons per year
MM	Mitigation Measure
MT	metric ton
N_2O	nitrous oxide
NAAQS	National Ambient Air Quality Standards
NEPA	National Environmental Policy Act
NOx	oxides of nitrogen
NPDES	National Pollutant Discharge Elimination System
O_3	ozone
PFC	perfluorocarbon
PM_{10}	particulate matter with an aerodynamic diameter less than or equal to 10 microns
$PM_{2.5}$	particulate matter with an aerodynamic diameter less than or equal to 2.5 microns
Reservation	Pechanga Indian Reservation
RWQCB	Regional Water Quality Control Board
RWRF	regional water reclamation facility
SCE	Southern California Edison

SoCalGas	Southern California Gas Company
SOx	sulfur oxides
Specific Plan	Wolf Creek Specific Plan
SR	State Route
SSMP	Standard Stormwater Mitigation Plan
SWPPP	Stormwater Pollution Prevention Plan
SWRCB	State Water Resources Control Board
Tribe	Pechanga Band of Luiseño Indians
USC	United States Code
USEPA	U.S. Environmental Protection Agency
USFWS	U.S. Fish and Wildlife Service
VOC	volatile organic compound
WQMP	Water Quality Management Plan

SECTION 1.0

INTRODUCTION

1.1 SUMMARY OF THE PROPOSED ACTION AND ENVIRONMENTAL REVIEW PROCESS

This Environmental Assessment (EA) has been prepared pursuant to the requirements of the National Environmental Policy Act (NEPA) (42 United States Code [USC] Section 4321 et seq.) and assesses the environmental impacts of taking approximately 20 acres contiguous to the Pechanga Band of Luiseño Indians (Tribe) reservation in the City of Temecula, in Riverside County, California (Wolf Valley Property, or Proposed Project site), into federal trust status for the Tribe to protect and restore Tribal homelands (Proposed Action). Although the Tribe has no current plans for development, development of the Proposed Project site at a future time is reasonably foreseeable. Due to the underling zoning and land use designation of the site and after discussion with the Tribe about most likely future developments (if any), it is assumed for the purposes of NEPA analysis that the Proposed Project site would be developed with commercial uses at a future time (Proposed Project Alternative).

The statutory authority for acquiring lands in trust status for Native American tribes is provided in the Indian Reorganization Act of 1934 (25 USC Section 5108), with regulations codified at 25 Code of Federal Regulations (CFR) Section 151 et seq. Pursuant to 25 CFR Part 151, the Assistant Secretary of Indian Affairs, as an authorized representative of the Secretary of the Interior, is charged with reviewing and approving tribal applications to take land into federal trust status. The Tribe is seeking to acquire land contiguous to the Pechanga Indian Reservation (Reservation) into trust to protect and restore Tribal homelands.

This EA has been completed in accordance with NEPA, the Council on Environmental Quality's (CEQ) Guidelines for Implementing NEPA (40 CFR Section 1500 et seq.), and the Bureau of Indian Affairs (BIA) NEPA Guidebook (59 Indian Affairs Manual [IAM] 3-H). For the purpose of this EA, the BIA serves as the lead agency for compliance with NEPA. This EA provides a detailed description of the Proposed Project Alternative and an analysis of its potential environmental consequences. This EA also includes a discussion and analysis of a No Action Alternative. Section 2.5, Alternatives Eliminated From Further Analysis, provides a brief analysis of off-site alternatives eliminated from consideration.

1.2 PURPOSE AND NEED FOR PROPOSED ACTION

The federal Proposed Action is the acquisition of the 20-acre Proposed Project site in trust to protect and restore Tribal homelands for the Tribe pursuant to the Secretary of the Interior's authority under the Indian Reorganization Act (25 USC 5108). The purpose of the Proposed Action is to facilitate Tribal self-sufficiency, self-determination, and economic development, thus satisfying the U.S. Department of the Interior's land acquisition policy as articulated in the Department of the Interior's trust land regulations at 25 CFR Part 151. The need for the Department of the Interior to act on the Tribe's application is established by the Department of the Interior's regulations at 25 CFR Section 151.10(h) and Section 151.12, and the Tribe's needs related to facilitation of Tribal self-sufficiency, self-determination, and economic development (described further in Section 1.3, Background).

1.3 BACKGROUND

The Tribe is proposing a Fee-to-Trust Application for its Wolf Valley Property (Proposed Project site), located southwest of Wolf Creek Drive and northeast of Pechanga Parkway [Assessor's Parcel Number (APN) 961-020-026 and APN 962-010-007). The approximately 20-acre Proposed Project site is currently owned by the Tribe, is contiguous to the Tribe's Reservation, and is part of the Tribe's ancestral homelands. The Fee-to-Trust Application is made in accordance with 25 USC Section 465 and 25 CFR Part 151, Land Acquisitions, to transfer the title of the Proposed Project site from the land held in fee by the Tribe to land held in trust by the United States for the benefit of the Tribe.

On April 17, 2016, the Tribe adopted Resolution No. 160417-01, authorizing the Tribe to place the Proposed Project site into trust, and thereby requesting the Secretary of Interior to take the property into trust for the benefit of the Tribe. Approval from the BIA is required for the proposed Fee-to-Trust Application.

The Tribe is a federally recognized tribe with an approximately 7,080-acre Reservation in Riverside County, California (Pechanga Band of Luiseño Indians 2021a). In 1882, an executive order established the Tribe's Reservation. In 1907, the U.S. government purchased 235 acres of land next to the Tribe's Reservation to provide additional needed farmland that came to be known as the Kelsey Tract. Despite the nearby spring (called *Túuchaana*), there was not enough water to irrigate the entire property reliably. To improve the water supply, the Pechanga people dug a well and installed a windmill-powered pump. The land was put into trust for Pechanga under the U.S. Interior Department's Bureau of Land Management. In 1988, the passage of the Southern California Indian Land Transfer Act (Public Law 100-581) added 303 acres along the Tribe's northern boundary. The addition of the Great Oak Ranch property in 2003 and the purchase of *Pu'éska* Mountain in 2012 expanded the Reservation further (Pechanga Band of Luiseño Indians 2021b).

The first casino was built on the Tribe's Reservation in 1995 (Pechanga Band of Luiseño Indians 2021c). In early 2001, the Pechanga Development Corporation, Tribal Council, and Gaming Commission broke ground to build the $262 million Pechanga Resort & Casino complex. The Tribe expanded its Resort and Casino in 2018, adding a new hotel tower and additional outdoor amenities. The Pechanga Resort & Casino has been the main source of Tribal government funding for long needed and previously unaffordable infrastructure on the Reservation, and also creates positive economic impacts to the community (Pechanga Band of Luiseño Indians 2021d).

The Tribe submitted a Fee-to-Trust Application for the Proposed Project site to reclaim a portion of the Tribe's ancestral homelands, contiguous to the Tribe's Reservation, and to reserve those lands for future Tribal uses, including economic development. Placing the Proposed Project site into trust would allow the Tribe to better protect the Proposed Project site and the Reservation and will enhance the Tribe's self-determination and self-governance (refer to the Tribe's Fee-to-Trust Application for additional information).

Additionally, The Tribe and the City of Temecula (City) share a common goal to develop the Proposed Project site with commercial and/or mixed-use development if feasible. This site is within the City's Wolf Creek Specific Plan (Specific Plan) area, which is slated for development in the City's planning documents. The original development of commercial uses at the Proposed Project site was envisioned to serve as an anchor that would promote growth of a mixed-use development area of residential, commercial, and public facilities (including parks, schools, and churches) within the framework of a comprehensive master planned community (City of Temecula 2000).

1.4 OVERVIEW OF THE ENVIRONMENTAL REVIEW PROCESS

As mentioned in Section 1.1, Summary of the Proposed Action and Environmental Review Process, this document has been prepared to meet NEPA environmental review requirements. A brief overview of this process is provided below.

1.4.1 National Environmental Policy Act

This document has been completed in accordance with the requirements set forth in NEPA (42 USC 4321 et seq.), the Council on Environmental Quality's Regulations for Implementing NEPA (40 CFR Parts 1500–1508), and the BIA's NEPA Handbook (59 IAM 3-H).

Environmental Assessment

This EA was prepared in accordance with NEPA to analyze and document the environmental consequences of approval of the transfer of approximately 20 acres into federal trust status for the Tribe and reasonably foreseeable future development of the Proposed Project site associated with this transfer. Preparation of this EA included consultation with the BIA, the Tribe, the City, and others (see Section 5.0, Consultation and Coordination). The BIA will use this EA to determine whether or not the Proposed Action would result in adverse effects to the environment and to satisfy the environmental review process of 59 IAM 3-H, 40 CFR Section 1501.3, and 40 CFR Section 1508.9. The EA and Draft Finding of No Significant Impact will be available for a 30-day comment period. Comments will be considered by the BIA, and either the Finding of No Significant Impact will be signed

or additional environmental analysis will be conducted. After the NEPA process is complete, the BIA may issue a determination on the Fee-to-Trust Application.

1.5 COORDINATION WITH THE CITY OF TEMECULA

The Tribe has a long-standing, collaborative relationship with the City, and has held one staff meeting with City planning staff regarding the Proposed Action. This initial meeting involved discussion about the unknown nature of the most viable use of the Proposed Project site, and it was agreed to hold additional meetings once a specific project looked imminent. Once the Tribe does intend to move forward with a specific project at the Proposed Project site, the Tribe will ensure the appropriate local officials are notified and that coordination with the City would occur. Meanwhile, due to the underling zoning and land use designation of the site, it is assumed that the Proposed Project site would be developed with commercial uses, consistent with existing City zoning.

1.6 PUBLIC INVOLVEMENT

This EA and an unsigned Finding of No Significant Impact (FONSI) underwent a 30-day public review and comment period between March 24, 2022, and April 25, 2022. A Notice of Availability for the EA was published in the Temecula Press-Enterprise on March 24, 2022. During the public comment and review and comment period, hard copies of this EA and unsigned FONSI were available at the Pechanga's government building and the Temecula Public Library. In addition, an electronic version of this EA was available on the Pechanga's government website. One comment letter was received during the public review and comment period.

The City of Temecula's comment letter provided two substantive comments: 1) the APN for the northern parcel is incorrectly identified, and 2) the EA does not identify the fee-to-trust transfer's impact to the City from loss of potential future sales tax revenue. This EA has been updated with the correct APN for the northern parcel throughout the document, and Sections 3.6.1.2 and 3.6.2 have been updated to address impacts to the City's potential loss of future sales tax revenue.

1.7 REGULATORY REQUIREMENTS AND APPROVALS

The Proposed Project Alternative, as described in Section 2.0, Alternatives, may require federal, state, and local approvals and actions. Table 1-1 identifies each responsible agency and the potential permit or approval required. Additionally, approval of the Proposed Project Alternative by the Tribal Council would also be required prior to implementation of the Proposed Project Alternative.

Table 1-1
Potential Permits and Approvals Required

Agency	Permit or Approvals	Alternative
Federal/State		
Secretary of the Interior	Transfer of alternative site into federal status for the Tribe	Proposed Project Alternative
United States Fish & Wildlife Service	Determination of consistency with the Riverside County Multiple Species Habitat Conservation Plan regarding endangered species impacts, specifically burrowing owl (see MM-BIO-1 in Table 4-1)	Proposed Project Alternative
United States Environmental Protection Agency	Verification of project coverage under the National Pollutant Discharge Elimination System General Permit for Stormwater Discharges from Construction Activities as required by the Clean Water Act	Proposed Project Alternative
	General Conformity Determination review	Proposed Project Alternative
California Office of Historic Preservation	Consultation under Section 106 of the National historic Preservation Act	Proposed Project Alternative
Local		
City of Temecula	Approval of water, wastewater, and/or drainage connections	Proposed Project Alternative
City of Temecula	Approval of encroachment permits	Proposed Project Alternative

SECTION 2.0

ALTERNATIVES

This section describes the alternatives that are analyzed within this EA. A reasonable range of alternatives has been selected based on consideration of the purpose and need of the Proposed Action and opportunities for potentially reducing environmental effects. Because preliminary environmental review of the Proposed Action indicated that significant environmental impacts would not likely occur as a result of implementing the Proposed Project Alternative, the BIA determined that the reasonable range of alternatives analyzed in this EA include the Proposed Project Alternative and the No Action Alternative. Consistent with CEQ Guidelines (40 CFR Section 1502.14), this section summarizes and compares the potential environmental consequences, benefits, and/or detriments of the Proposed Action and No Action Alternative (Section 2.4). Alternatives that were considered but are not analyzed in this EA are described in Section 2.5.

2.1 SITE LOCATION

The Proposed Project site considered in this EA is known as the Wolf Valley Property, an approximately 20-acre site currently owned by the Tribe and the subject property in the Tribe's Fee-to-Trust Application with the BIA. As shown in Figure 2-1, Project Location, the Proposed Project site is located within the City of Temecula, in Riverside County, California, and shares its southwestern border with the Tribe's Reservation. The site is bordered by Wolf Creek Drive to the northeast, the Great Oak Trail and undeveloped space to the southwest, and residential uses to the north and southeast. Wolf Creek Park and the Riverside County Fire Station are also located to the northeast, across Wolf Creek Drive, and the Pechanga Resort Casino is located approximately 175 feet to the southwest, across Pechanga Parkway. Wolf Valley Road traverses the site from the northeast to southwest, and Pechanga Parkway is located approximately 112 feet southwest of the Proposed Project site (see Figure 2-1). The Proposed Project site is located on APNs 961-020-026 and 962-010-007.

2.2 PROPOSED PROJECT ALTERNATIVE

The Proposed Action would result in approval of the Fee-to-Trust Application for the Proposed Project site. In addition to the Fee-to-Trust Application, the Proposed Action would result in reasonably foreseeable future development of the site. Due to the underling zoning and land use designation of the site, and based on discussions with the Tribe, it is assumed that the Proposed Project site would be developed with commercial uses.

2.2.1 Fee-To-Trust Transfer

The Tribe has submitted an application to the BIA for the transfer of the Proposed Project site into federal trust status for the benefit of the Tribe. The Proposed Project site consists of two parcels: the 7.8-acre northern parcel (APN 961-020-026) and the 12.2-acre southern parcel (APN 962-010-007). No gaming would occur on the Proposed Project site as a result of the Proposed Action. The proposed trust parcel boundaries are shown in Figure 2-1. The BIA will make its determination regarding the proposed Fee-to-Trust Application in accordance with the procedures set forth in 25 CFR Part 151. The regulations in 25 CFR Part 151 implement Section 5 of the Indian Reorganization Act of 1934, codified at 25 USC Section 5108, which is the general statute that provides the Secretary of the Interior with authority to acquire lands in trust status for tribes and individual Native Americans. The Tribe and the federal government would exercise civil regulatory jurisdiction over the site once it is taken into trust.

2.2.2 Future Commercial Development

Although the Tribe is not currently proposing specific development on the Proposed Project site, the Proposed Project Alternative would result in a reasonably foreseeable future development scenario of the Proposed Project site. The two parcels are currently identified as "Specific Plan" on the City of Temecula Zoning Map (City of Temecula 2005a). The Wolf Creek Specific Plan identifies the northern parcel as Planning Area 12 and the

southern parcel as Planning Area 13. The northern parcel is designated as Neighborhood Commercial in the City's General Plan and the Wolf Creek Specific Plan, and the southern parcel is designated as Community Commercial in the City's General Plan and the Wolf Creek Specific Plan (City of Temecula 2003, 2005b).

The City prepared an Environmental Impact Report (EIR) for the Wolf Creek Specific Plan in January 2001. As stated in the EIR, the Proposed Project site is planned to form the core of the Village Center area and provide local shopping opportunities for residents within the Specific Plan area and surrounding development. Per the EIR, permitted uses at the Proposed Project site would include Neighborhood Commercial and Community Commercial uses, consistent with the City's Development Code regulations for those zoning categories (City of Temecula 2000, 2001). The Neighborhood Commercial designation allows for smaller-scale business activities that generally provide retail or convenience services for the local residents in the surrounding neighborhood. These uses include traditional small food markets (floor area less than 25,000 square feet), drug stores, clothing stores, sporting goods, offices, hardware stores, childcare, and community facilities. The Community Commercial designation allows for retail, professional office, and service-oriented business activities that serve the entire community. These uses include some neighborhood commercial uses, as well as larger retail uses, including department stores, theaters, restaurants, professional offices, specialty retail stores, and shopping centers (City of Temecula 2021a). Per the Specific Plan, uses allowed at the Proposed Project site could also include assembly halls/community rooms, auditoriums and conference facilities, bowling alleys, car washes, dry cleaning, funeral parlors and mortuaries, health and exercise clubs, houses of worship/religious institutions, and institutional uses (City of Temecula 2000).

For the purpose of the analysis in this EA, the Tribe has proposed a reasonably foreseeable development scenario for the Proposed Project site that would be consistent with existing City land use designations and comply with local construction and design codes and requirements. The Tribe would construct approximately 200,000 square feet of leasable development that would include a mix of Community and Neighborhood Residential Commercial uses. Design and architecture of the Proposed Project Alternative would be consistent with adjacent land uses and would not significantly exceed the bulk and scale of surrounding development. Although not required, the Tribe will design the commercial development to be functionally consistent with the City's lighting and architectural design guidelines as identified in the City's Community Design Element and the Wolf Creek Specific Plan. Additional components for the commercial development are described below.

Parking

Parking would be provided in accordance with the Riverside County Zoning Code, which requires 5.5 spaces per 1,000 square feet (County of Riverside 2021). As such, 1,100 parking spaces would be provided at the Proposed Project site. In addition, all parking would be in conformance with the City's Development Code Section 17-24, Off Street Parking and Loading, as well as the City-Wide Design Guidelines.

Water Supply

The Proposed Project site is located within Rancho California Water District's (RCWD) Water District Service Area Division (RCWD 2021a). The future commercial development would continue to be serviced by the RCWD through existing and planned water infrastructure. A Water System Plan was prepared as part of the Specific Plan that proposed construction of various new water facilities to serve the Specific Plan development, including an 8-inch-diameter water line along Wolf Creek Drive on the northeastern boundary of the Proposed Project site (City of Temecula 2000). Per RCWD's Water Facilities Master Plan, these water lines have been constructed. In addition to these water lines, existing potable water mains are present along Wolf Valley Road and Pechanga Parkway (RCWD 2015). A recycled water main line is also present along Wolf Valley Road, northeast of the site, and along Wolf Creek Drive, northwest of the site (RCWD 2021b). As a voluntary mitigation measure, the Proposed Project would be designed to meet City Municipal Codes for stormwater and groundwater protections, such as Section 8.28.500 for controlling pollutants from runoff.

Wastewater Treatment

The Proposed Project site would continue to be serviced by the EMWD for wastewater treatment. All wastewater currently collected by the EMWD is conveyed to the Santa Rosa Water Reclamation Facility for treatment (RCWD 2016).

Roadway Access

Regional access to the Proposed Project site would be provided via Interstate (I) 15, State Route (SR) 79, and Pechanga Parkway. Local access to the Proposed Project site would be provided via Wolf Valley Road and Wolf Creek Drive.

Law Enforcement, Fire Protection, and Emergency Medical Services

Law enforcement at the Proposed Project site is currently provided by the Temecula Police Department (which contracts with Riverside County Sheriff's Department) (City of Temecula 2021b). Should the Fee-to-Trust be approved, and absent an agreement otherwise, law enforcement of the Proposed Project site would remain largely unchanged with the Temecula Police Department continuing to provide law enforcement to the extent consistent with Public Law 280. It is likely, however, that the Pechanga Tribal Ranger Department will also patrol the Project Site in its security capacities. The Pechanga Tribal Ranger Department provides law enforcement services for the Reservation, and provides services such as dispatch, background investigations, animal control, fleet, Tribal emergency response, evidence/property, Tribal rangers, traffic enforcement, schools resource officers, court services, and community participation. The Pechanga Tribal Ranger Department assists the Tribe in exercising its Tribal sovereignty by providing public safety services, enforcing Tribal ordinances, protecting Reservation residents, and maintaining a positive relationship with outside law enforcement (Pechanga Band of Luiseño Indians 2021d).

Temecula Fire Department currently provides fire protection services to the Proposed Project site. Temecula Fire Department Station 92 is located adjacent to the southern parcel to the northwest, at 32211 Wolf Valley Road (City of Temecula 2021c, 2021d). Should the Fee-to-Trust be approved, fire protection services would be provided by the Pechanga Fire Department.

The Pechanga Fire Department provides fire protection and medical emergency services to the Tribe's Reservation. It has two fire stations within two miles of the Proposed Project site, one of which is located at 45421 Pechanga Resort Drive, approximately 0.37 miles southeast of the Proposed Project site. The Pechanga Fire Department's firefighting apparatus consists of a Type I American La France engine, the American La France 100-foot Tiller Quint, a Type III engine, a Type II engine, and a Type II water tender. The Pechanga Fire Department includes a fire chief, a division chief/fire marshal, three battalion chiefs, six fire captains, six fire apparatus engineers, twelve firefighters, a fire inspector, an emergency services coordinator, and nine fuels management crewmembers. In addition, the Pechanga Fire Department employs twelve full-time firefighter paramedics (Pechanga Band of Luiseño Indians 2021d). The Pechanga Fire Department has the capacity to serve the Proposed Project site, as well as any commercial development that takes place on the site (Appendix E).Although the Tribe has mutual aid agreements with the County of Riverside for public services, such as fire protection, the Pechanga Fire Department would be expected to address any emergency issues, primarily due to the Pechanga Fire Department's close proximity to the Proposed Project site.

Electricity and Natural Gas

Southern California Edison (SCE) provides electrical services to the Proposed Project site and vicinity, and Southern California Gas Company (SoCalGas) provides natural gas services to the Proposed Project site and vicinity (City of Temecula 2021e). Current electrical and natural gas service providers would continue to provide these utilities under the Proposed Project Alternative. The Tribe would also consider electric service from the Tribe's own utility, Pechanga Western Electric, should that option be available at the time of development.

Construction

Although a specific timeframe for developing the site is not proposed at this time, for the purpose of analysis, this EA assumes that construction of the 200,000-square-foot commercial development would begin in March 2025

and last 17 months, for a commercial operation date of August 2026. It was assumed that construction phases would include site preparation (10 days), grading (30 days), building construction (300 days), paving (20 days), and architectural coating (20 days) (see Appendix A, Air Quality and Greenhouse Gas Memorandum, for an overview of construction equipment and duration).

Construction would involve grading and excavating for building pads and parking lots. The elevation of the Proposed Project site is relatively flat and slopes from approximately 1,064 feet above mean sea level (AMSL) to the north to approximately 1,086 feet AMSL to the south. Grading of the Proposed Project site would require the development of a grading plan that would be finalized during the final design phase. Grading would comply with Chapter 18 of the Temecula Municipal Code; the City's Engineering and Construction Manual; and all applicable City ordinances, standard notes, policies, and procedures. Dust suppression best management practices (BMPs) for roadways, trucks, and ground-disturbing activities would be implemented during construction (see Section 2.2.3, Protective Measures and Best Management Practices). In addition, although it would not be required, the Tribe would voluntarily follow the City's Noise Ordinance for allowable hours for construction activities to reduce potential noise and vibration impacts (Section 8.32 of the Temecula Municipal Code).

The Proposed Project Alternative would comply with the National Pollutant Discharge Elimination System (NPDES) Construction General Permit and implement stormwater discharge management controls that effectively reduce or prevent the discharge of pollutants into receiving waters during construction in accordance with the Clean Water Act (CWA). In accordance with NPDES Construction General Permit requirements, a Stormwater Pollution Prevention Plan (SWPPP) would be prepared prior to construction. The SWPPP would include BMPs to minimize stormwater effects to water quality during construction (see Section 2.2.3).

The Proposed Project site was previously graded and its surface is currently pervious. The Proposed Project Alternative would introduce impervious surfaces at the Proposed Project site. The Proposed Project Alternative would comply with the City's BMP Design Manual, which outlines on-site post-construction stormwater requirements for development projects, including implementation of BMPs and low-impact-development features designed to reduce impacts to surface waters and filter stormwater runoff (see Section 2.2.3, below).

Because the Proposed Project will connect to City roads, the applicant would be required to obtain an encroachment permit from the City that includes requirements to ensure construction traffic impacts are minimized during construction. If determined by the City, the applicant may also be required to prepare a Traffic Control Plan for any construction within the public right of way to ensure safe passage of vehicles, bicycles or pedestrians through the work zone.

2.2.3 Protective Measures and Best Management Practices

Protective measures and BMPs, including regulatory requirements, green construction methods as adopted under the Tribal Building and Safety Code, and any additional measures that would be implemented by the Tribe, would be incorporated into the design of the Proposed Project Alternative. Where applicable, these measures would be incorporated into any design or construction contracts to eliminate or substantially reduce environmental consequences from the Proposed Project Alternative. These measures are discussed in Table 2-1.

Table 2-1
Proposed Project Alternative Best Management Practices

Resource Area	Proposed Best Management Practices
Land Resources	• A grading report shall be prepared and submitted with the working design plans. All recommendations of the report shall be adhered to during future construction of the Proposed Project Alternative. • All site clearing, removal of unsuitable soil, moisture conditioning, review of imported fill material, fill placement, foundation excavations, and other site grading shall be verified during future construction of the Proposed Project Alternative to ensure compliance with standard engineering practices.

Table 2-1
Proposed Project Alternative Best Management Practices

Resource Area	Proposed Best Management Practices
	• All future structures shall meet California Building Code and Consumer Product Safety Commission requirements, as adopted under the Tribal Building and Safety Code. • Erosion control measures shall be implemented during future construction of the Proposed Project Alternative, as described further under the Water Resources best management practices (BMPs). • Dust suppression BMPs shall be used for roadways and trucks.
Water Resources	The Tribe shall comply with the National Pollutant Discharge Elimination System Construction General Permit from the U.S. Environmental Protection Agency for construction site runoff during the construction phase, in compliance with the Clean Water Act (CWA). A Stormwater Pollution Prevention Plan (SWPPP) shall be prepared, implemented, and maintained throughout the construction phase of the development, consistent with Construction General Permit requirements. The SWPPP prepared for the site prior to future development of the Proposed Project Alternative would include the following BMPs: • To the extent feasible, grading activities shall be limited to the immediate area required for construction and remediation. • Temporary erosion control measures (such as silt fences, fiber rolls, vegetated swales, a velocity dissipation structure, staked straw bales, temporary re-vegetation, rock bag dams, erosion control blankets, and sediment traps) shall be employed for disturbed areas. • Construction activities shall be scheduled to minimize land disturbance during peak runoff periods. • Disturbed areas shall be paved or re-vegetated following construction activities. • Construction area entrances and exits shall be stabilized with large-diameter rock. • A Spill Prevention and Countermeasure Plan shall be developed that identifies proper storage, collection, and disposal measures for potential pollutants (such as fuel, fertilizers, and pesticides) used on site. • Petroleum products shall be stored, handled, used, and disposed of properly in accordance with provisions of the CWA (33 USC Sections 1251–1387). • Construction materials, including topsoil and chemicals, shall be stored, covered, and isolated to prevent runoff losses and contamination of surface and groundwater. • Fuel and vehicle maintenance areas shall be established away from all drainage courses and designed to control runoff. • Sanitary facilities shall be provided for construction workers. • Disposal facilities shall be provided for soil wastes, including excess asphalt during construction. • Wheel wash or rumble strips and sweeping of paved surfaces shall be used to remove all tracked soil. • Low-impact-development methods shall be implemented to help store, infiltrate, evaporate, and detain stormwater runoff. Techniques that may be included in the design of the Proposed Project Alternative could include bio-retention facilities, vegetated filter strips, and permeable pavement.
Public Services and Utilities	• Construction equipment shall contain spark arrestors, as provided by the manufacturer. • Staging areas, welding areas, or areas slated for development using spark-producing equipment shall be cleared of dried vegetation and other materials that could serve as fire fuel. • An indoor sprinkler system and fire extinguishers shall be installed to provide fire protection.
Noise	• Unless an early work permit is issued by the Tribe in consultation with the City of Temecula (City), construction activities shall be limited to daytime hours consistent with the City's Municipal Code Section 11.96.070 (i.e., between October 1 and April 30, 7:00 a.m. to 5:30 p.m. Monday–Friday and 8:00 a.m. to 5:00 p.m. Saturday;

Table 2-1
Proposed Project Alternative Best Management Practices

Resource Area	Proposed Best Management Practices
	between May 1 and September 30, 6:00 a.m. to 7:00 p.m. Monday–Friday and 8:00 a.m. to 5:00 p.m. Saturday; no work on Sundays or state holidays). • All powered equipment shall comply with applicable federal regulations and all such equipment shall be fitted with adequate mufflers according to the manufacturer's specifications to minimize construction noise effects. • Heating, ventilation, and air conditioning (HVAC) equipment shall be shielded to reduce noise.

2.3 NO ACTION ALTERNATIVE

Under the No Action Alternative, the BIA would not issue an approval of the proposed Fee-to-Trust Application. Although future development consistent would zoning could occur under the No Action Alternative, given the Tribe's current lack of development plans, the presence of additional tax consequences and local development requirements, it is assumed for the purpose of the NEPA analysis that no development would occur under the No Action Alternative. Therefore, future development of the Proposed Project site would not occur, and the Proposed Project site would remain undeveloped.

2.4 COMPARISON OF THE ALTERNATIVES

- **Proposed Project Alternative.** Among the project alternatives considered, the Proposed Project Alternative, which is fully evaluated for environmental effects in Section 3.0, Affected Environment and Environmental Consequences, would best meet the Tribe's objectives and would provide the greatest socioeconomic benefit to the Tribe.
- **No Action Alternative.** Under the No Action Alternative, the Proposed Project site would remain in its existing condition and would not be taken into trust. No environmental effects would occur because no future development would occur. Under the No Action Alternative, the Tribe would not receive the economic benefits that would be created with development of the Proposed Project Alternative. Moreover, the Tribe would not be able to use its landholdings in a manner that would most benefit its members. This alternative would be less preferable than the Proposed Project Alternative because it would not meet the stated purpose or need of facilitating Tribal self-sufficiency, self-determination, and economic development.

2.5 ALTERNATIVES ELIMINATED FROM FURTHER ANALYSIS

The intent of the analysis of alternatives in the EA is to present to decision makers and the public a reasonable range of alternatives that are both feasible and sufficiently different from each other in critical aspects. Alternatives were considered and excluded from full EA analysis because these alternatives were deemed infeasible, would not fulfill the stated purpose and need of the Proposed Action, and/or were not sufficiently distinguishable from the project alternatives that the analysis would offer additional information to assist the BIA in its consideration of impacts under NEPA. A number of potential off-site alternatives were considered but ultimately eliminated due to the infeasibility of acquiring new off-site properties, the unavailability of off-site properties currently owned by the Tribe for development, or the inability of these alternatives to lessen the environmental consequences of the Proposed Project Alternative. These eliminated alternatives are discussed in detail below.

2.5.1 Other Alternative Sites

In addition to the Proposed Project site, off-site alternatives were considered that would involve potential development on trust land already owned by the Tribe, fee land already owned by the Tribe, or land purchased for use. As described in Section 1.3, Background, although the Tribe's Reservation encompasses over 7,080 acres, the total amount of Tribally owned land that is available for development of any kind is extremely small, and, at this time, the Tribe does not have access to any other parcels that would allow for a similar commercial development.

Figure 2-1 Project Location

SECTION 3.0

AFFECTED ENVIRONMENT AND ENVIRONMENTAL CONSEQUENCES

This section includes a detailed description of the affected environment of the Proposed Project site, including the regulatory setting and environmental setting of the Proposed Project site, as well as an analysis of the environmental consequences associated with the Proposed Project Alternative and No Action Alternative. The following environmental issue areas are described: land resources, water resources, air quality, biological resources, cultural resources, socioeconomic conditions/environmental justice, transportation/circulation, land use, public services and utilities, visual resources, noise, and hazardous materials.

3.1 LAND RESOURCES

3.1.1 Affected Environment

The following discussion describes the existing surface topography, geology and soils, and seismic hazards in the vicinity of the Proposed Project site.

3.1.1.1 Regulatory Setting

Alquist-Priolo Earthquake Fault Zoning Act

The Alquist-Priolo Earthquake Fault Zoning Act (Alquist-Priolo Act), signed into law in December 1972 after the 1971 San Fernando earthquake, requires the delineation of zones along active and potentially active faults in California. The United States Geological Survey defines a fault as "active" if it has moved one or more times in the last 10,000 years. The California Geological Survey defines an "active" fault as one that exhibits evidence of activity during the last 11,000 years. Faults that exhibit evidence of Quaternary activity (within the last 1.6 million years) are considered to be "potentially active." The purpose of the Alquist-Priolo Act is to regulate development on or near fault traces to reduce the hazard of fault rupture and to prohibit the location of most structures for human occupancy across these traces. Fault zones defined by the Alquist-Priolo Act are areas around active faults, averaging approximately 0.25 miles wide, within which cities and counties having jurisdiction must regulate certain development projects (DOC 2019a).

Seismic Hazards Mapping Act

The Seismic Hazards Mapping Act was enacted in 1990 to protect the public from the effects of strong ground shaking, liquefaction, landslides, ground failure, or other hazards caused by earthquakes. This act requires a state geologist to delineate various seismic hazard zones, and requires cities, counties, and other local permitting agencies to regulate certain development projects within the portions of those zones where they have jurisdiction. Before a development permit is granted by a city, county, or other local permitting agency for a site within a seismic hazard zone, a geotechnical investigation must be conducted and appropriate mitigation measures must be incorporated into the project's design. Ground shaking probability maps have been developed in conjunction with the United States Geological Survey for all of California (DOC 2019b).

California Building Code

State regulations protecting structures from geo-seismic hazards are contained in the California Code of Regulations, Title 24, Part 2 (i.e., the California Building Code [CBC]). The purpose of the CBC is to establish minimum standards to safeguard the public health, safety, and general welfare through structural strength, means of egress facilities, and general stability by regulating and controlling the design, construction, quality of materials, use and occupancy, location, and maintenance of all building and structures within its jurisdiction. The CBC is based on the International Building Code published by the International Code Conference. The CBC contains California amendments based on the American Society of Civil Engineers Minimum Design Standards 7-05, which provides requirements for general structural design and includes means for determining earthquake loads and other loads (such as wind loads) for inclusion into building codes. The provisions of the CBC apply to

the construction, alteration, movement, replacement, and demolition of every building or structure or any appurtenances connected or attached to such buildings or structures throughout California.

3.1.1.2 Environmental Setting

Topography

The elevation of the Proposed Project site is relatively flat and slopes from approximately 1,064 feet AMSL to the north to approximately 1,086 feet AMSL to the south, resulting in an approximately 23-foot difference in elevation from the northwest corner to the southeast corner.

Geology/Soils

Geomorphic regions are broad-scale subdivisions based on terrain, texture, rock type, and geologic structure and history. The United States Geological Survey uses a three-tiered classification of the United States, by division, province, and section, to provide a spatial organization for the great variety of the country's physical features. The Proposed Project site falls within the Pacific Mountain System major physiographic division, Pacific Border province, Los Angeles Ranges region (USGS 2008).

The Proposed Project site is underlaid with young alluvial valley deposits (Qya), from the Holocene and latest Pleistocene, which are fluvial deposits along canyon floors that consist of unconsolidated sand, silt, and clay-bearing alluvium (DOC 1979, 2016a). The soils in the Proposed Project site are primarily interbedded sands and silty sands, with occasional seams of clayey silt. Soils are generally medium dense to dense with localized loose to medium dense seams. Below 40 feet, the deposits become coarse to fine sands with scattered gravel. On-site soils generally have a slight erosion hazard, low shrink/swell potential, and a moderately rapid to rapid water permeability rate (City of Temecula 2001). The Proposed Project site is currently disturbed but not developed and mostly consists of pervious surfaces.

Seismic Hazards

Temecula is located within the Peninsular Range block, characterized by faults with strong northwest orientation that typically display right lateral slip (parallel movement). Major regional fault systems nearby include the Elsinore Fault Zone, the San Jacinto Fault Zone, the San Andreas Fault Zone, and then Newport-Inglewood Fault Zone (City of Temecula 2000). The Wolf Valley Fault, which is a part of the Elsinore Fault Zone, is located approximately 0.28 miles southwest of the Proposed Project site. Additional faults located in the vicinity of the Proposed Project site are the Wildomar Fault, located to the northeast, and the Willard Fault, located farther to the southwest of the Proposed Project site (DOC 2018). Therefore, the Proposed Project site is located within an earthquake fault zone (DOC 2016b).

Liquefaction and Lateral Spreading

Soil liquefaction can occur in seismic conditions. The potential for liquefaction in an area is a function of soil type and depth of groundwater. Poorly consolidated soils combine with groundwater during an earthquake, losing their shear strength and taking on the properties of a heavy liquid. This process, termed liquefaction, can result in the loss of foundation support, ground failure due to lateral spreading, and settlement of affected soils. Three general conditions must be met for liquefaction to occur: (1) strong ground shaking of relatively long duration; (2) loose, or unconsolidated, recently deposited sediments consisting primarily of silty sand and sand; and (3) water saturated sediments within about 50 feet of the surface. The Proposed Project site is located in a liquefaction hazard zone (City of Temecula 2005b; DOC 2016b).

3.1.2 Proposed Project Alternative

Topography

As discussed above, the elevation of the Proposed Project site is relatively flat and slopes from approximately 1,064 feet AMSL to the north to approximately 1,086 feet AMSL to the south, resulting in an approximately 23-foot difference in elevation from the northwest corner to the southeast corner. Although the Tribe has no current plans for development of the Proposed Project site, commercial development of the Proposed Project site at a future time as a result of the Fee-to-Trust Application is reasonably foreseeable. Construction of the commercial

development would result in impacts to topography from grading within the Proposed Project site and potential import of fill material. However, changes to topography resulting from potential leveling the site would not affect significant existing topographic features on the Proposed Project site, as none are present. The final grading plan would comply with standard engineering practices. Therefore, although the Proposed Project Alternative would result in short-term direct adverse impacts to topography from ground-disturbing activities, with preparation of and adherence to the measures and BMPs within a grading plan, future development of the Proposed Project Alternative would not result in a significant impact to topography. No mitigation is required.

Geology/Soils

As discussed under Section 3.1.1, Affected Environment, soils at the Proposed Project site generally have a slight erosion hazard, low shrink/swell potential, and a moderately rapid to rapid water permeability rate (City of Temecula 2001). Future development of the Proposed Project Alternative could affect soils due to potential erosion during construction and operation activities. Such construction activities could include clearing, grading, trenching, and backfilling. Site grading would further expose soils on the Proposed Project site to erosion by water and wind. As discussed in Section 3.2.1.1, Regulatory Setting, sediment discharge into navigable (surface) Waters of the United States is regulated by the CWA, which establishes water quality goals for sediment control and erosion prevention for any project that would disturb more than 1 acre of soil. One of the mechanisms for achieving the goals of the CWA is the NPDES permitting program, administered by the U.S. Environmental Protection Agency (USEPA). As part of the NPDES Construction General Permit, a SWPPP must be prepared and implemented. The SWPPP must make provisions for erosion prevention and sediment control, and control of other potential pollutants. Construction of the Proposed Project Alternative would disturb more than 1 acre; therefore, the Tribe is required by the CWA to obtain coverage under, and comply with the terms of, the NPDES Construction General Permit for construction activities subsequent to federal trust property acquisition of the Proposed Project site. The NPDES Construction General Permit requirements would reduce any potential adverse impacts to less-than-significant levels. Therefore, although the Proposed Project Alternative would result in short-term direct adverse impacts to soils from ground-disturbing activities, with regulatory requirements and implementation of BMPs described in Section 2.2.3, Protective Measures and Best Management Practices, impacts from construction of the Proposed Project Alternative would not be significant.

Once the Proposed Project Alternative is developed and operational, it is anticipated that the Proposed Project site would become largely impervious with buildings, parking lots, and internal roads. However, future development at the Proposed Project site would comply with the CBC, which includes requirements for addressing potential impacts associated with geology and soils. Per the CBC, the Proposed Project Alternative would prepare a geotechnical investigation by a civil engineer who is registered by the state. The final design of the Proposed Project Alternative would incorporate BMPs to minimize adverse impacts relative to soil corrosivity, erosion, and soil stability, if applicable (see Section 2.2.3). Therefore, although the Proposed Project Alternative would result in long-term adverse impacts to soils during operations, with compliance with existing regulations and preparation of a geotechnical investigation, impacts would not be significant.

Seismic Hazards

As described in Section 3.1.1.1, Regulatory Setting, all structures would conform to the applicable requirements of the CBC, including building, electrical, energy, mechanical, plumbing, fire protection, and safety, as adopted under the Tribal Building and Safety Code (Tribal Ordinance No. 26). Use of the CBC and Tribal Building and Safety Code design and construction standards would allow ground-shaking-related hazards to be managed from a geologic, geotechnical, and structural standpoint such that adverse impacts to the health or safety of workers or members of the public would be minimized. These existing regulations would also address any potential impacts associate with liquefaction and lateral spreading. Therefore, no significant adverse impacts due to geologic or seismic conditions on site would occur.

3.1.3 No Action Alternative

Under the No Action Alternative, the Proposed Project site would not be taken into trust and no future development would occur. The Proposed Project site would remain in its current state. Therefore, topographic features and soils would remain undisturbed, and the No Action Alternative would have no adverse impacts related to land resources.

3.2 WATER RESOURCES

3.2.1 Affected Environment

The following discussion describes the existing surface water hydrology, flooding conditions, groundwater hydrology, and water quality in the vicinity of the Proposed Project site.

3.2.1.1 Regulatory Setting

Executive Orders 11988 and 13690

Executive Order (EO) 13690, which amends EO 11988, requires that federal agencies evaluate the potential effects of any actions they may take in a floodplain. Specifically, EO 11988 states that agencies must first determine whether the proposed action will occur in a floodplain. EO 11988 defines a floodplain as an area that has a 1% or greater chance of flooding in any given year. Second, if an agency proposes to allow an action to be located in a floodplain, "the agency shall consider alternatives to avoid adverse effects and incompatible development in the floodplains," which EO 13690 amended to add that, "[w]here possible, an agency shall use natural systems, ecosystem processes, and nature-based approaches when developing alternatives for consideration." If the only practicable alternative action requires siting in a floodplain, the agency shall "minimize potential harm to or within the floodplain." Additionally, EO 13960 established a Federal Flood Risk Management Standard for federal actions that are located in or affect floodplains, and also expanded the definition of a floodplain to which the Federal Flood Risk Management Standard would apply to those areas subject to flooding by the 0.2% annual chance flood (FEMA 2015).

Clean Water Act

The federal CWA, 33 USC Section 1251(a)(2), sets forth national goals that waters shall be "fishable, swimmable" waters (CWA Section 101[a][2]). The CWA addresses both point and non-point sources of pollution (Sections 402 and 319, respectively), both of which are controlled through an NPDES permit. An NPDES permit must be obtained in order to discharge pollutants into "waters of the United States." In some states, the USEPA has delegated permitting authority to the regional water quality agency, in this case the State Water Resources Control Board (SWRCB). However, the USEPA retains authority to regulate discharges to waters on tribal lands. The CWA also directs states to establish water quality standards for waterways in their jurisdiction, and to review and update these standards every 3 years (CWA Section 303[c]).

Section 303(d) of the CWA requires states to periodically prepare a list of all surface waters in their respective jurisdictions for which beneficial uses of the water—such as for drinking, recreation, aquatic habitat, and industrial use—are impaired by pollutants. These include water bodies that do not meet state surface water quality standards and are not expected to improve within the next 2 years. States establish a priority ranking of these impaired waters for purposes of developing water quality control plans that include total maximum daily loads. A total maximum daily load is a calculation of the maximum amount of a pollutant that a water body can receive and still meet water quality standards, and includes an allocation for each of the pollutant's sources. These water quality control plans describe how an impaired water body will meet water quality standards through the use of total maximum daily loads.

Safe Drinking Water Act

Under the mandate of the Safe Drinking Water Act, the USEPA sets legally enforceable National Primary Drinking Water Regulations (primary standards) that apply to public water systems. These standards are established to protect human health by limiting the levels of contaminants in drinking water. The USEPA does not oversee the construction or permitting of groundwater wells, but requires that public health standards, such as an effectively installed sanitary seal, are in place, and recommends that water systems be installed to meet California Department of Public Health Standards. The USEPA will also establish monitoring and operational requirements, which will typically be specific to the site.

The USEPA also defines National Secondary Drinking Water Regulations (secondary standards) for contaminants that cause cosmetic and aesthetic effects, but not health effects. The USEPA recommends that these secondary standards be met. Both primary and secondary drinking water standards are expressed as either maximum contaminant levels, which define the highest level of a contaminant allowed in drinking water, or Maximum Contaminant Level Goals, which define the level of a contaminant below which there is no expected risk to health.

Porter-Cologne Water Quality Act

The Porter-Cologne Water Quality Control Act provides the basis for surface water and groundwater quality regulation within California. The act established the authority of the SWRCB and the nine Regional Water Quality Control Boards (RWQCBs). The act requires the state, through the SWRCB and the RWQCBs, to designate beneficial uses of surface waters and groundwater, and to specify water quality objectives designed to protect those uses. These water quality objectives are presented in the Regional Water Quality Control Plans. The Proposed Project site is located within the San Diego RWQCB (SWRCB 2021). The Water Quality Control Plan for the San Diego Basin designates beneficial uses and water quality objectives for all the groundwater and surface water of the region (San Diego RWQCB 2016).

The surface water quality standards for California include both narrative and numerical water quality objectives to keep California's waters swimmable, fishable, drinkable, and suitable for use by industry, agriculture, and the citizens of the state.

Sustainable Groundwater Management Act

The intent of the California Sustainable Groundwater Management Act (Water Code Section 10720 et seq.) is to "enhance local management of groundwater consistent with rights to use or store groundwater… [and] to preserve the security of water rights in the state to the greatest extent possible consistent with the sustainable management of groundwater." The Sustainable Groundwater Management Act states that "any local agency or combination of local agencies overlying a groundwater basin may elect to be a groundwater sustainability agency for that basin" (Water Code Section 10723). A groundwater sustainability agency will be formed within each groundwater basin to prepare and implement a plan for long-term groundwater sustainability. Finally, the Sustainable Groundwater Management Act (i) contemplates the voluntary participation of Native American tribes in the preparation or administration of a groundwater sustainability plan or groundwater management plan through a joint powers authority or other agreement with local agencies and basins; (ii) acknowledges the federally reserved water rights of Native American tribes for purposes of adjudicating or managing these rights and mandates that these rights be respected in full; and (iii) recognizes that federal law prevails in the adjudication or management of tribal federally reserved water rights.

The Proposed Project site is located within the Temecula Valley Groundwater Basin, which is a very low priority basin (DWR 2021). Only high- and medium-priority basins are required to form a groundwater sustainability agency and adopt a groundwater sustainability plan or submit an alternative to a groundwater sustainability plan (DWR 2019). Since the Proposed Project site is located within a very low priority basin, formation of a groundwater sustainability agency or adoption of a groundwater sustainability plan is not required.

3.2.1.2 Environmental Setting

Floodplain

The Proposed Project site is located within Federal Emergency Management Agency Flood Insurance Rate Map site Number 06065C3305G and in Flood Zone X (FEMA 2008). This portion of Zone X is determined to be outside the 1% annual chance (100-year) floodplains and the 0.2% annual chance (500-year) floodplain (FEMA 2008).

Surface Water

Regional Watershed

The Proposed Project site is located within the Santa Margarita Watershed, the Pechanga Creek-Temecula Creek Subwatershed, and within the Lower Temecula Creek Parent Watershed (University of California Davis 2021). The Proposed Project site is also located within the Santa Margarita Hydrologic Unit, as designated by the San

Diego RWQCB. Specifically, the Proposed Project site is located within the Pechanga Hydrologic Area and the Wolf Hydrologic Subarea (San Diego RWQCB 2016). The surface waterbody nearest to the Proposed Project site is the Pechanga Creek, which runs generally southeast to northwest through Temecula, approximately 0.34 miles southwest of the Proposed Project site (USEPA 2021). There are no water bodies listed on the California state 303(d) list of impaired waters on or adjacent to the Proposed Project site (San Diego RWQCB 2016).

Site Drainage

The elevation of the Proposed Project site is relatively flat and slopes from approximately 1,064 feet AMSL to the north to approximately 1,086 feet AMSL to the south, resulting in an approximately 23-foot difference in elevation from the northwest corner to the southeast corner.

Per the Specific Plan EIR, the Specific Plan area, including the Proposed Project site, is nearly flat, with an overall grade change of less than 2%. Storm runoff sheet flows across the Specific Plan area in a west-northwesterly direction. Existing temporary drainage ditches along Wolf Valley Road, which intersects the Proposed Project site, and Pala Road, located approximately 0.9 miles south of the site (Pechanga Parkway eventually turns into Pala Road to the south), convey runoff from the Specific Plan area and surrounding areas to a partially improved channel along Pala Road, north of Loma Linda Road, which transitions into the Jedediah Smith Road Channel and, ultimately, Temecula Creek (City of Temecula 2001).

The entire 1,600-acre Wolf Valley Drainage Basin, which includes the Proposed Project site, generates a 100-year flow of 2,993 cubic feet per second tributary to Temecula Creek at Jedediah Smith Road. Recent improvements to Pechanga Parkway provide sufficient capacity to carry the flows, which historically have flowed in a northwesterly direction.

Groundwater

Groundwater Supply

The Proposed Project site is located within the 137-square-mile Temecula Valley Groundwater Basin (also known as the Murrieta–Temecula Groundwater Basin), which underlies several valleys in southwestern Riverside County and a portion of northern San Diego County (DWR 2003). Water supply to Temecula is drawn from the Temecula Valley Groundwater Basin and supplemented with importer water from the Metropolitan Water District of Southern California (City of Temecula 2005b). The RCWD, the local water agency, uses various groundwater basins in the vicinity of the Proposed Project site, including Well No. 211, located within the northeastern portion of the Proposed Project site, and Well No. 122, located approximately 250 feet northwest of the Proposed Project site. Both wells produce approximately 400 acre-feet per year (AFY) (RCWD 2021b).

Groundwater Quality

The Proposed Project site is located within the boundaries of the San Diego RWQCB. Beneficial uses for groundwater within the Pechanga Hydrologic Area, in which the Proposed Project site is located, include municipal and domestic supply, agriculture supply, and industrial service supply (San Diego RWQCB 2016). Contaminants of concern in the Santa Margarita Watershed include mineral concentration, salinity, total dissolved solids, iron, nitrogen, phosphorus, manganese, and iron. The sources of these contaminants are thought to include pesticides, artificial recharge, fertilizer application, trash, sediment, wastewater infiltration, and naturally occurring contaminants (City of Temecula 2018).

3.2.2 Proposed Project Alternative

Surface Water

Construction Impacts

As discussed above, although the Tribe has no current plans for development of the Proposed Project site, development of the Proposed Project site at a future time as a result of the Fee-to-Trust Application is reasonably foreseeable. Construction impacts under the Proposed Project Alternative would include ground-disturbing activities such as grading and excavation, which could lead to erosion of topsoil. Erosion from construction sites can increase sediment discharge to surface waters during storm events, thereby degrading downstream water quality. Construction activities would also include the routine use of potentially hazardous construction materials,

such as concrete washings, oil, and grease, which may spill onto the ground and be dissolved in stormwater. Discharges of pollutants, including grease, oil, fuel, and sediments, to surface waters from construction activities and accidents would result in a short-term direct adverse impact. Regulated construction activities in excess of 1 acre are required to apply for coverage under the NPDES Construction General Permit. The provisions of this permit include preparation of a SWPPP, which would be developed prior to any ground disturbance and would include BMPs to reduce potential surface water contamination during storm events. A list of BMPs that may be included in the SWPPP and that would be implemented during construction of the Proposed Project Alternative is presented in Section 2.2.3. These BMPs would minimize adverse impacts to the local and regional watershed from construction activities associated with the Proposed Project Alternative by reducing detachment of soil particles from bare soil or by preventing movement of loose soil into waterways. Therefore, with adherence to the NPDES permitting program and implementation of the SWPPP, impacts to surface water quality from construction activities would not be significant.

Operation

Water Supply

Water supply for the Proposed Project Alternative would be provided by the RCWD. As discussed in Section 3.9.2, the potable water demand of the Proposed Project Alternative would not result in a significant impact on any regional surface water supplies.

Stormwater Runoff

Pollutants that accumulate in dry periods, such as oil and grease, asbestos, pesticides, and herbicides, may adversely affect water quality because of their presence in high concentrations during the first storm event of the season. Although the Tribe has no current plans for development of the Proposed Project site, development of the Proposed Project site at a future time as a result of the Fee-to-Trust Application is reasonably foreseeable. Future development of the site would result in a greater area of impervious surfaces, potentially increasing stormwater runoff flow rates. An increase in impervious surfaces reduces infiltration of stormwater through the soil, and can cause an increase in on-site or off-site flooding or erosion by directing water toward areas that typically do not receive concentrated surface water runoff, resulting in a long-term direct adverse impacts to stormwater runoff. However, future development of the Proposed Project site would comply with existing federal, state, and City standards for development, including the Municipal Separate Storm Sewer System Permit and the City's Jurisdictional Runoff Management Plan and Storm Water Ordinance. Compliance with existing regulations would ensure that stormwater runoff would be properly treated and conveyed. Therefore, impacts to surface water would not be significant, and no mitigation is required.

Floodplain

Impacts to the floodplain or floodplain management could occur if construction of the Proposed Project Alternative were to place people or structures in a floodplain or change flood elevations. The Proposed Project site is outside of a 100-year flood zone as designated by the Federal Emergency Management Agency (FEMA 2008). Construction and operation of the Proposed Project Alternative would not alter the 100-year floodplain boundaries or flooding elevations. The Proposed Project site is located in Zone X, and is determined to be outside the 1% annual chance (100-year) floodplain and the 0.2% annual chance (500-year) floodplain (FEMA 2008). Therefore, no adverse impact associated with flooding or floodplain management would occur as a result of the Proposed Project Alternative.

Groundwater

Water Supply

As described in Section 3.9.2, future development under the Proposed Project is anticipated to generate a water demand of approximately 23.89 million gallons per year (MGY) or 73.3 AFY. Potable water would be supplied to the Proposed Project Alternative by the RCWD, which has historically provided a significant portion of its overall demand through groundwater pumping from the Temecula Valley Groundwater Basin. In addition to the RCWD, other agencies, including the Tribe and other private entities, pump from the Temecula Valley Groundwater Basin. The sustainable yield of the Temecula Valley Groundwater Basin, including artificial recharge allotments, has averaged 38,365 AFY over the past 5 years (RCWD 2015). Operational water demand under the Proposed

Project Alternative would constitute only approximately 0.2% of the average sustainable yield of the Temecula Valley Groundwater Basin over the past 5 years. As discussed above, Well No. 211 is located within the northeastern portion of the Proposed Project site. However, future development of the Proposed Project Alternative would address any potential impacts associated with the existing well. Therefore, although the Proposed Project Alternative would result in long-term direct adverse impacts to groundwater, this use of groundwater would be minimal. Therefore, the Proposed Project Alternative would not result in a significant impact on regional groundwater levels, and no mitigation is required.

The introduction of impervious surfaces to the Proposed Project site could prevent water from percolating to the underlying aquifer, resulting in lower rates of groundwater recharge, resulting in short- and long-term direct adverse impacts to groundwater recharge. However, as a voluntary mitigation measure, it is anticipated that the Proposed Project Alternative would implement stormwater features into the project design that would capture and retain stormwater flow and allow stormwater to permeate into the underlying groundwater aquifer. For example, in voluntary compliance with Section 8.28.500 of the City's Municipal Code, the Proposed Project Alternative will be designed to control pollutants in stormwater and urban runoff to prevent exceedances of water quality objectives, violations to designated beneficial uses or state policy with respect to maintaining high quality waters, or degradation of water quality such that a condition of pollution or contamination is created or aggravated. In addition, once development plans for future development of the Proposed Project site are finalized, the future applicant would prepare a Standard Stormwater Mitigation Plan/Water Quality Management Plan (SSMP/WQMP). Therefore, with the incorporation of stormwater features and voluntary implementation of City requirements for stormwater and groundwater protection, impacts to groundwater recharge would not be significant. No mitigation is required.

Water Quality

Contaminated runoff from future development associated with the Proposed Project Alternative could infiltrate the soil and potentially affect groundwater, resulting in short- and long-term direct adverse impacts to water quality. As described above, the Proposed Project Alternative would implement stormwater features into project design that would capture and retain stormwater flow and allow stormwater to permeate into the underlying groundwater aquifer. In addition, once development plans for future development of the Proposed Project site are finalized, the future applicant would prepare an SSMP/WQMP. Therefore, with the incorporation of stormwater features and voluntary implementation of City requirements for stormwater and groundwater protection, impacts to groundwater quality would not be significant. No mitigation is required.

3.2.3 No Action Alternative

Under the No Action Alternative, the Proposed Project site would not be taken into trust, and no development would occur. The site would remain in its current state. Therefore, the No Action Alternative would have no adverse impacts related to surface water or groundwater resources.

3.3 AIR QUALITY

An Air Quality and Greenhouse Gas Memorandum was prepared for the Proposed Project Alternative (August 19, 2021), and is included as Appendix A. The results of the Air Quality and Greenhouse Gas Analysis are incorporated into the analysis below.

3.3.1 Affected Environment

The following discussion describes the existing air quality in the vicinity of the Proposed Project site.

3.3.1.1 Regulatory Setting

Clean Air Act

The Clean Air Act of 1970, as amended, authorizes the USEPA to identify common air pollutants that impact air quality on a national level and establish corresponding National Ambient Air Quality Standards (NAAQS) to

protect public health and welfare. Accordingly, the USEPA has identified ozone (O_3), carbon monoxide (CO), particulate matter (PM), nitrogen dioxide, sulfur dioxide, and lead as air contaminants. The NAAQS are divided into primary standards to protect public health, and secondary standards to protect public welfare. Areas are designated attainment, nonattainment, or maintenance by the USEPA depending on whether concentrations in each area exceed the established NAAQS. Nonattainment areas are required to take steps toward attainment within a specific period of time. Once an area reaches attainment for a particular air contaminant, then the area is re-designated as attainment or maintenance. The Clean Air Act places most of the responsibility on states to achieve compliance with the NAAQS. States, municipal statistical areas, and counties that contain areas of nonattainment are required to develop a State Implementation Plan that outlines policies and procedures designed to bring the nonattainment area into compliance with the NAAQS.

3.3.1.2 Environmental Setting

The Proposed Project site is located within the South Coast Air Basin and is within the jurisdictional boundaries of the South Coast Air Quality Management District, which has jurisdiction over Riverside County, including Temecula. Criteria air pollutants are defined as pollutants for which the federal and state governments have established ambient air quality standards, or criteria, for outdoor concentrations to protect public health. Criteria air pollutants that are evaluated include volatile organic compounds (VOCs), oxides of nitrogen (NO_x), CO, sulfur oxides (SO_x), particulate matter with an aerodynamic diameter less than or equal to 10 microns in size (PM_{10}), and particulate matter with an aerodynamic diameter less than or equal to 2.5 microns in size ($PM_{2.5}$). VOCs and NO_x are important because they are precursors to O_3.

General Conformity Background

Under Section 176(c)(1) of the federal Clean Air Act, federal agencies that "engage in, support in any way or provide financial assistance for, license or permit, or approve any activity" (40 CFR Part 51, Section 51.850) must demonstrate that such actions do not interfere with state and local plans to bring an area into attainment with the NAAQS. The program by which a federal agency determines that its action would not obstruct or conflict with air quality attainment plans is called "general conformity." The implementing regulations for general conformity are found in Title 40, CFR, Part 51, Subpart W. Under the general conformity regulations, both the direct and indirect emissions associated with a federal action must be evaluated. Subpart W defines direct emissions as "[T]hose emissions of a criteria pollutant or its precursors that are caused or initiated by the Federal action and occur at the same time and place as the action." Indirect emissions are defined as those emissions of a criteria pollutant or its precursors that:

> (1) Are caused by the Federal action, but may occur later in time and/or may be farther removed in distance from the action itself but are still reasonably foreseeable; and
> (2) The Federal agency can practicably control and will maintain control over due to a continuing program responsibility of the Federal agency.

Attainment Status and General Conformity Thresholds

The first step in the general conformity analysis is the applicability analysis. The National Highway System Designation Act of 1995, (Pub. Law 104–59) added Section 176(c)(5) to the Clean Air Act to limit applicability of the conformity programs to areas designated as nonattainment under Section 107 of the Clean Air Act and maintenance areas under Section 175A of the Clean Air Act only. Therefore, only actions in designated nonattainment and maintenance areas are subject to the regulation. In addition, the regulations recognize that the vast majority of federal actions do not result in significant increase in emissions and, therefore, include a number of exemptions, such as de minimis emissions levels based on the type and severity of the nonattainment problem.

Accordingly, a conformity determination is required for each criteria pollutant or precursor where the direct and indirect emissions of the criteria pollutant or precursor in a federal nonattainment or maintenance area would equal or exceed specified annual emission rates, referred to as "de minimis" thresholds. For O_3 precursors (VOCs and NO_x) and particulate matter, the de minimis thresholds depend on the nonattainment classification's severity;

for other pollutants, the threshold is set at 100 tons per year. The Reservation is currently classified as a federal nonattainment area for the 2015 O_3 standard (marginal) (USEPA 2021a). In addition, the Riverside County portion of the South Coast Air Basin is currently classified as a federal nonattainment area for $PM_{2.5}$ (serious), and a federal maintenance area for PM_{10}, nitrogen dioxide, and CO (USEPA 2021a). The Riverside County portion of the South Coast Air Basin is unclassified or attainment for the other federal standards. The relevant de minimis thresholds are shown in Table 3-1.

Table 3-1
General Conformity De Minimis Thresholds

Pollutant	Attainment Status	Annual Emissions (tons per year)
VOC	Nonattainment/Marginal (O_3)	100
NO_X	Nonattainment/Marginal (O_3)	100
$PM_{2.5}$	Nonattainment/Serious	70
PM_{10}	Maintenance	100
CO	Maintenance	100

Sources: USEPA 2021a, 2021b
VOC = volatile organic compound; NO_x = oxides of nitrogen; O_3 = ozone; $PM_{2.5}$ = particulate matter with an aerodynamic diameter less than or equal to 2.5 microns; PM_{10} = particulate matter with an aerodynamic diameter less than or equal to 10 microns; CO = carbon monoxide.

Greenhouse Gases Overview

A greenhouse gas (GHG) is any gas that absorbs infrared radiation in the atmosphere; in other words, GHGs trap heat in the atmosphere. As defined in California Health and Safety Code Section 38505(g), for purposes of administering many of the state's primary GHG emissions reduction programs, GHGs include carbon dioxide (CO_2), methane (CH_4), nitrous oxide (N_2O), hydrofluorocarbons (HFCs), perfluorocarbons (PFCs), sulfur hexafluoride (SF_6), and nitrogen trifluoride (see also California Code of Regulations [CCR] Title 14, Section 15364.5). Some GHGs, such as CO_2, CH_4, and N_2O, occur naturally and are emitted into the atmosphere through natural processes and human activities. Of these gases, CO_2 and CH_4 are the predominant GHGs emitted from human activities. Manufactured GHGs, which have a much greater heat absorption potential than CO_2, include fluorinated gases, such as HFCs, PFCs, and sulfur hexafluoride, associated with certain industrial products and processes.

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

$$CO_2e = (\text{metric tons of a GHG}) \times (\text{GWP of the GHG})$$

The California Emissions Estimator Model (CalEEMod) assumes that the GWP for CH_4 is 25, which means that emissions of 1 MT of CH_4 are equivalent to emissions of 25 MT of CO_2, and the GWP for N_2O is 298.

Climate change refers to any significant change in measures of climate, such as temperature, precipitation, or wind patterns, lasting for an extended period of time (decades or longer). The greenhouse effect, which is the trapping and build-up of heat in the atmosphere near the Earth's surface, is a natural process that contributes to regulating the Earth's temperature. Human activities that emit additional GHGs to the atmosphere increase the amount of infrared radiation that gets absorbed before escaping into space, thus enhancing the greenhouse effect and causing the Earth's surface temperature to rise.

The CEQ has withdrawn its final guidance for federal agencies on how to consider GHG emissions and the effects of climate change in NEPA reviews per a Notice of Availability that was published on August 5, 2016 (81 FR 51866). As explained in the Notice of Availability, the withdrawn guidance was not a regulation. Pursuant to EO

13783, Promoting Energy Independence and Economic Growth, of March 28, 2017, the guidance has been withdrawn for further consideration. Subsequently, in 2019, the CEQ published draft guidance for the consideration of GHG emissions under NEPA. On January 20, 2021, however, President Biden rescinded the CEQ June 2019 Draft NEPA Guidance on Consideration of GHG Emissions and directed preparation of new guidance, building on the August 2016 Final Guidance for Federal Departments and Agencies on Consideration of Greenhouse Gas Emissions and the Effects of Climate Change in NEPA Reviews.

Although there are currently no formal guidance or numeric thresholds for evaluating project-generated GHG emissions in NEPA assessments, estimated GHG emissions are included herein and compared to the previous 2014 CEQ draft threshold of 25,000 MT CO_2e per year, which had been proposed as a minimum indicator level for GHG emissions that may warrant description in NEPA and by the California Air Resources Board as a mandatory reporting requirement for California stationary source emissions.

3.3.1.3 Air Quality Analysis Methodology and Assumptions

Construction Methodology

Emissions from Proposed Project Alternative construction activities were estimated using CalEEMod Version 2020.4.0. CalEEMod is a statewide computer model developed in cooperation with air districts throughout the state to quantify criteria air pollutant and GHG emissions associated with the construction and operational activities from a variety of land-use projects, such as residential, commercial, and industrial facilities.

To estimate Proposed Project Alternative emissions, it is assumed that construction of the Proposed Project Alternative would begin in March 2025 and would last approximately 17 months, ending August 2026. The analysis contained herein is based on the following assumptions (duration of phases is approximate):

- Site Preparation: 10 days
- Grading: 30 days
- Building Construction: 300 days
- Paving: 20 days
- Architectural Coating: 20 days

For the analysis, it was generally assumed that heavy construction equipment would be operating at the site 5 days per week (22 days per month) during Proposed Project Alternative construction. In addition to construction equipment operation, emissions from worker trips and vendor trucks (i.e., delivery trucks) were estimated based on CalEEMod defaults. Vendor trucks transporting building materials were assumed for building construction and haul trucks were not assumed for the import and export of earthwork material since soils are anticipated to be balanced on site.

The construction equipment mix and estimated hours of equipment operation per day, as well as the estimated construction-related vehicle trips, used for the Proposed Project Alternative's air pollutant emissions modeling are based on CalEEMod defaults and are shown in Table 3-2, Construction Scenario Assumptions. Additional details regarding construction assumptions are provided in the modeling output in Appendix A.

Table 3-2
Construction Scenario Assumptions

Construction Phase	Daily Worker One-Way Trips	Daily Vendor Truck One-Way Trips	Total Haul Truck One-Way Trips	Equipment	Quantity	Daily Usage Hours
Site Preparation	18	0	0	Rubber-Tired Dozers	3	8
				Tractors/ Loaders/ Backhoes	4	8

Table 3-2
Construction Scenario Assumptions

Construction Phase	Daily Worker One-Way Trips	Daily Vendor Truck One-Way Trips	Total Haul Truck One-Way Trips	Equipment	Quantity	Daily Usage Hours
Grading	20	0	0	Excavators	2	8
				Graders	1	8
				Rubber-Tired Dozers	1	8
				Scrapers	2	8
				Tractors/ Loaders/ Backhoes	2	8
Building Construction	249	105	0	Cranes	1	7
				Forklifts	3	8
				Generator Sets	1	8
				Tractors/ Loaders/ Backhoes	3	7
				Welders	1	8
Paving	15	0	0	Pavers	2	8
				Paving Equipment	2	8
				Rollers	2	8
Architectural Coatings	50	0	0	Air Compressors	1	6

Operational Methodology

Emissions from the operational phase of the Proposed Project Alternative were also estimated using CalEEMod Version 2020.4.0. Operational year 2027 was assumed based on the first full year of Proposed Project Alternative operations. During long-term operations, the Proposed Project Alternative would generate air pollutants and GHGs from mobile, energy, and area sources, and GHGs would be generated by solid waste and water supply/wastewater generation. CalEEMod was used to estimate emissions from all of these sources. Default CalEEMod assumptions were used for the generation of electricity associated with building energy, water supply, treatment, distribution and wastewater treatment, as well as natural gas consumption, area sources (i.e., landscaping, consumer products, and architectural coatings for building maintenance), and solid waste disposal.

3.3.2 Proposed Project Alternative

Construction Analysis

Construction of the Proposed Project Alternative would result in the temporary addition of pollutants to the local airshed caused by on-site sources (i.e., off-road construction equipment and soil disturbance) and off-site sources (i.e., on-road vendor trucks and worker vehicle trips). CalEEMod was used to calculate the annual criteria air pollutant emissions based on the construction scenario described in Appendix A. Table 3-3 presents the estimated annual emissions generated during construction of the Proposed Project Alternative. Although there are no applicable de minimis thresholds for SOx, as the South Coast Air Basin is in attainment of the NAAQS for this pollutant, estimated annual emissions for SOx are provided in Table 3-3 for disclosure. Details of the emission calculations are provided in Attachment A of Appendix A.

Table 3-3
Estimated Annual Construction Criteria Air Pollutant Emissions

Year	VOC	NO_x	CO	SO_x	PM_{10}	$PM_{2.5}$
	Tons per Year					
2025	0.25	2.02	2.66	0.01	0.62	0.26

Table 3-3
Estimated Annual Construction Criteria Air Pollutant Emissions

Year	VOC	NO_x	CO	SO_x	PM_{10}	$PM_{2.5}$
	Tons per Year					
2026	1.14	1.10	1.63	<0.01	0.25	0.09
Maximum Annual Emissions	**1.14**	**2.02**	**2.66**	**0.01**	**0.62**	**0.26**
De Minimis Threshold	*100*	*100*	*100*	*N/A*	*100*	*70*
Exceeds threshold?	**No**	**No**	**No**	**N/A**	**No**	**No**

Notes: VOC = volatile organic compound; NO_x = oxides of nitrogen; CO = carbon monoxide; SO_x = sulfur oxides; PM_{10} = coarse particulate matter; $PM_{2.5}$ = fine particulate matter; N/A = not applicable.
See Attachment A of Appendix A for complete results.

As shown in Table 3-3, the annual emissions of VOC, NO_x, CO, PM_{10}, and $PM_{2.5}$ would not exceed the applicable de minimis thresholds; therefore, further analysis is not required for VOC, NO_x, CO, PM_{10}, or $PM_{2.5}$. As such, the Proposed Project Alternative would be in compliance with the general conformity requirements and would not conflict with local air quality attainment plans to achieve federal ambient air quality standards.

Greenhouse Gas Emissions
Construction of the Proposed Project Alternative would result in GHG emissions that are primarily associated with use of off-road construction equipment and on-road vendor and worker vehicles. CalEEMod was used to calculate the annual GHG emissions based on the construction scenario described in Appendix A. Table 3-4 shows the estimated annual GHG construction emissions associated with the Proposed Project Alternative. Details of the emission calculations are provided in Attachment A of Appendix A.

Table 3-4
Estimated Annual Construction GHG Emissions

Year	CO_2	CH_4	N_2O	CO_2e
	Metric Tons per Year			
2025	633.32	0.09	0.03	643.43
2026	386.38	0.04	0.02	392.80
Total Proposed Project Alternative Construction Emissions				**1,036.24**
Proposed Project Alternative Construction Emissions Amortized Over 30-Years				*34.54*

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

As shown in Table 3-4, the estimated total Proposed Project Alternative–generated construction GHG emissions would be minimal, estimated at approximately 1,036 MT CO_2e. To compare to the applied GHG threshold, the total construction GHGs were amortized over 30 years (typical project lifetime) and summed with the operational emissions below.

Operational Analysis
Table 3-5 presents the estimated annual area, energy, and mobile source emissions associated with operation of the Proposed Project Alternative. Details of the emission calculations are provided in Appendix A.

Table 3-5
Estimated Annual Operational Criteria Air Pollutant Emissions

Source	VOC	NO_x	CO	SO_x	PM_{10}	$PM_{2.5}$
	Tons per Year					
Area	0.85	<0.01	0.02	0.00	<0.01	<0.01
Energy	<0.01	0.02	0.02	<0.01	<0.01	<0.01
Mobile	2.58	3.44	23.01	0.05	6.02	1.64

Table 3-5
Estimated Annual Operational Criteria Air Pollutant Emissions

Source	VOC	NO_x	CO	SO_x	PM_{10}	$PM_{2.5}$
	Tons per Year					
Total Proposed Project Alternative Operations	**3.44**	**3.46**	**23.05**	**0.05**	**6.02**	**1.64**
De Minimis Threshold	*100*	*100*	*100*	*N/A*	*100*	*70*
Exceeds threshold?	**No**	**No**	**No**	**N/A**	**No**	**No**

Notes: VOC = volatile organic compound; NO_x = oxides of nitrogen; CO = carbon monoxide; SO_x = sulfur oxides; PM_{10} = coarse particulate matter; $PM_{2.5}$ = fine particulate matter; N/A = not applicable.
Totals may not sum due to rounding. See Attachment A of Appendix A for complete results.

As shown in Table 3-5, the annual emissions of VOC, NO_x, CO, PM_{10}, and $PM_{2.5}$ associated with the Proposed Project Alternative would not exceed the de minimis thresholds; therefore, further analysis is not required for VOC, NO_x, CO, PM_{10}, or $PM_{2.5}$. As such, the Proposed Project Alternative would be in compliance with the general conformity requirements, and would not conflict with local air quality attainment plans to achieve federal ambient air quality standards.

Greenhouse Gas Emissions

Table 3-6 presents the area sources, energy usage, motor vehicles, solid waste generation, water usage, and wastewater generation GHG emissions associated with operation of the Proposed Project Alternative. Details of the GHG emission calculations are provided in Appendix A.

Table 3-6
Estimated Annual Operational Greenhouse Gas Emissions

Year	CO_2	CH_4	N_2O	CO_2e
	Metric Tons per Year			
Area	0.03	<0.01	0.00	0.03
Energy	481.39	0.04	0.01	483.89
Mobile	4,802.37	0.28	0.26	4,885.52
Solid waste	42.63	2.52	0.00	105.61
Water supply and wastewater	56.80	0.49	0.01	72.53
Proposed Project Alternative Operational Emissions				**5,547.59**
Amortized Construction Emissions				*34.54*
Total Proposed Project Alternative Operational plus Amortized Construction Emissions				**5,582.13**
Greenhouse Gas Threshold				*25,000*
Exceeds Threshold?				**No**

Notes: CO_2 = carbon dioxide; CH_4 = methane; N_2O = nitrous oxide; CO_2e = carbon dioxide equivalent.
Totals may not sum due to rounding. See Attachment A in Appendix A for complete results.

As shown in Table 3-6, the annual emissions of GHGs associated with the Proposed Project Alternative would be approximately 5,548 MT CO_2e per year. When summed with amortized construction emissions, the total annual emissions would be approximately 5,582 MT CO_2e per year. As such, Proposed Project Alternative–generated GHGs would not exceed the applied GHG threshold of 25,000 MT CO_2e per year.

Conclusion

Although the Proposed Project Alternative could result in short- and long-term adverse direct and indirect impacts to air quality, neither construction emissions nor the operational emissions generated by the Proposed Project Alternative would exceed the general conformity de minimis thresholds for VOC, NO_x, CO, PM_{10}, or $PM_{2.5}$, as shown in Table 3-3 and Table 3-5. Accordingly, the Proposed Project Alternative would be in compliance with the federal Clean Air Act and general conformity requirements, and no significant impacts to air quality would occur.

Although there are no specific requirements for evaluating GHG emissions under NEPA, estimated Proposed Project Alternative–generated GHG emissions are included and compared to the applied threshold of 25,000 MT CO_2e. As presented in Tables 3-4 and 3-6, the Proposed Project Alternative (operations plus amortized construction emissions) is estimated to generate approximately 5,582 MT CO_2e per year, and would not exceed the applied GHG threshold. Therefore, although the Proposed Project Alternative could result in short- and long-term adverse direct and indirect impacts to GHGs, these impacts would not be significant.

3.3.3 No Action Alternative

Under the No Action Alternative, the Proposed Project site would not be taken into trust by the Tribe and development would not occur in the near term. As a result, no adverse impacts to air quality or GHGs would occur.

3.4 BIOLOGICAL RESOURCES

The following discussion describes the vegetation communities and special-status biological resources on the Proposed Project site (site) and within a 500-foot buffer of the site (study area). The discussion below is based on a literature review to identify the potential for sensitive species that are known to occur or may potentially occur in the vicinity of the site. The literature reviewed included a U.S. Fish and Wildlife Service (USFWS) iPaC query, the California Natural Diversity Database (CNDDB 2021), the California Native Plant Society's Inventory of Rare and Endangered Plants (CNPS 2021), and U.S. Department of Agriculture soil survey reports relevant to the Proposed Project site.

3.4.1 Affected Environment

The following discussion describes the existing biological resources in the vicinity of the Proposed Project site.

3.4.1.1 Regulatory Setting

Federal

Endangered Species Act

USFWS enforces the provisions of the federal Endangered Species Act (FESA) for all terrestrial species. Provisions of the FESA, as amended (16 USC 1531), protect federally listed threatened and endangered wildlife and their habitat from take (50 CFR Sections 17.11, 17.12). Under the FESA, "take" includes activities that "harass, harm, pursue, hunt, shoot, wound, kill, trap, capture, or collect" as well as any "attempt to engage in any such conduct" (16 USC 1531[3]). USFWS defines the term "harm" to include "significant habitat modification or degradation" (50 CFR Section 17.3). On June 29, 1995, the Supreme Court ruled that harm may include habitat modification "where it actually kills or injures wildlife by significantly impairing essential behavioral patterns, including breeding, feeding, or sheltering" (U.S. No. 94-859; [1995]). If "take" of a listed species is necessary to complete an otherwise lawful activity, this triggers the need for consultation under Section 7 of the FESA for federal agencies. A Section 7 Biological Opinion with incidental take provisions from USFWS would be required.

USFWS and the National Oceanic and Atmospheric Administration's National Marine Fisheries Service implement Section 10(a)(1)(b) of the FESA, which allows non-federal entities, under consultation with the USFWS and National Marine Fisheries Service, to obtain incidental take permits for federally listed wildlife. Compliance with Section 10(a)(1)(b) is not required for federally listed plants.

Pursuant to the requirements of the FESA, a federal agency reviewing a proposed project within its jurisdiction must determine whether any federally listed species may be present on the site and whether the project would have a potentially significant impact on such species. A discussion of regionally listed species is provided in consideration of potential impacts associated with Proposed Project Alternative implementation below. Under the FESA, habitat loss is considered to be an impact to the species. In addition, it is required to determine whether a project is likely to jeopardize the continued existence of any species that is proposed for listing under the FESA or to result in the destruction or adverse modification of critical habitat proposed to be designated for such species (16 USC Section 1536[3], [4]). Therefore, should it be determined that the Proposed Project Alternative would result in impacts to these species or their habitats, it would be considered significant and require mitigation.

Critical Habitat

Critical habitat is defined under the FESA as specific geographic areas within a listed species range that contain features considered essential for the conservation of the listed species. Designated critical habitat for a given species supports habitat deemed by USFWS to be important for the recovery of the species. Under the FESA, habitat loss is considered to be an impact to the species.

Migratory Bird Treaty Act

Migratory birds are protected under the federal Migratory Bird Treaty Act of 1918 (16 USC 703–712). The Migratory Bird Treaty Act makes it unlawful to take, possess, buy, sell, purchase, or barter any migratory bird (50 CFR 10), including feathers or other parts, nests, eggs, or products, except as allowed by implementing regulations (50 CFR 21). The direct injury or death of a migratory bird due to construction activities or other construction-related disturbance that causes nest abandonment, nestling abandonment, or forced fledging would be considered take under federal law. As such, project-related disturbances must be reduced or eliminated during the nesting season. The general nesting season extends from February 15 through September 15.

Bald and Golden Eagle Protection Act

The Bald and Golden Eagle Protection Act was originally enacted in 1940 to protect bald eagles (*Haliaeetus leucocephalus*) and was later amended to include golden eagles (*Aquila chrysaetos*) (16 USC Section 668). This act prohibits take, possession, and commerce of bald and golden eagles and associated parts, feathers, nests, or eggs with limited exceptions. The definition of take is the same as the definition under the FESA. USFWS established five recovery programs in the mid-1970s based on geographical distribution of the species, with California located in the Pacific Recovery Region. Habitat conservation efforts in the Pacific Recovery Region, including laws and management practices at federal, state, and community levels, have helped facilitate bald eagle population increases. Critical habitat for bald and golden eagles was not designated as part of the Pacific Recovery Plan created under the FESA. Likewise, critical habitat was not designated by regulation under the FESA. In 1995, USFWS reclassified bald eagle from endangered to threatened under the FESA in the contiguous 48 states, excluding Michigan, Minnesota, Wisconsin, Oregon, and Washington where it had already been listed as threatened. In 2007, bald eagle was federally delisted under the FESA. However, the provisions of the act remain in place for protection of bald eagles and golden eagles.

Wetlands and Waters of the United States

Natural drainage channels and adjacent wetlands may be considered "waters of the United States" subject to jurisdiction of the U.S. Army Corps of Engineers. The extent of jurisdiction has been defined in the CFR and is subject to interpretation by federal courts. The U.S. Army Corps of Engineers regulates the filling or dredging of waters of the United States under the authority of Section 404 of the CWA. The extent of jurisdiction within drainage channels is defined by the "ordinary high water mark" on opposing channel banks. All activities that involve the discharge of dredge or fill material into waters of the United States are subject to the permit requirements of the U.S. Army Corps of Engineers. Such permits are typically issued on the condition that the applicant agrees to provide mitigation that result in "no net loss" of wetland functions or values. No permit can be issued until USEPA issues a Section 401 Water Quality Certification verifying that the proposed activity will meet water quality standards.

The term "waters of the United States" is defined as follows:

- all waters currently used, or were used in the past, or may be susceptible to use in interstate or foreign commerce, including all waters subject to the flow of the tide;
- all interstate waters including interstate wetlands;
- all other waters such as intrastate lakes, rivers, streams (including intermittent streams), mudflats, sand flats, wetlands, sloughs, prairie potholes, wet meadows, playa lakes, or natural ponds, the use or degradation of which could affect interstate or foreign commerce including any such waters; or
- tributaries of waters identified in the bulleted items above.

The term "wetlands" is defined as follows:

- Waters of the United States that are inundated or saturated by surface or groundwater at a frequency and duration sufficient to support, and under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions. Wetlands that meet these criteria during only a portion of the growing season are classified as seasonal wetlands.

State and Local

California Endangered Species Act

The California Endangered Species Act (CESA) declares that deserving plant or animal species will be given protection by the state because they are of ecological, educational, historical, recreational, aesthetic, economic, and/or scientific value to the people of the state. The CESA established that it is state policy to conserve, protect, restore, and enhance state-listed species and their habitats. Under state law, plant and animal species may be formally listed by the California Fish and Game Commission.

The CESA authorizes that private entities may take listed species under the FESA and CESA pursuant to a federal incidental take permit issued in accordance with Section 10 of the FESA, if the California Department of Fish and Wildlife (CDFW) certifies that the incidental take statement or incidental take permit is consistent with the CESA (California Fish and Game Code Section 2080.1[a]).

California Fish and Game Code

The California Fish and Game Code defines "take" (Section 86) and prohibits take of a species listed under the CESA (California Fish and Game Code Section 2080) or is otherwise special status (California Fish and Game Code Sections 3511, 4700, and 5050). Section 2081(b) and (c) of the CESA allows CDFW to issue an incidental take permit for a state-listed species if specific criteria—outlined in Title 14 CCR Section 783.4(a), (b) and California Fish and Game Code Section 2081(b)—are met. The California Fish and Game Code Section 3503 states that it is unlawful to take, possess, or needlessly destroy the nest or eggs of any bird, except as otherwise provided by the code. Section 3503.5 states that it is unlawful to take, possess, or destroy any birds in the order *Falconiformes* or *Strigiformes* (birds of prey), or to take, possess, or destroy the nest or eggs of any such bird. Section 3513 states that it is unlawful to take or possess any migratory nongame bird as designated in the Migratory Bird Treaty Act or any part of such migratory nongame bird except as provided by rules and regulations adopted by the Secretary of the Interior under provisions of the Migratory Bird Treaty Act. If a project is planned in an area where a species or specified bird occurs, an applicant must design the project to avoid all take; CDFW cannot provide take authorization under the CESA.

Native Plant Protection Act of 1977

The Native Plant Protection Act of 1977 and implementing regulations in Section 1900 et seq. of the California Fish and Game Code designate special-status plant species and provide specific protection measures for identified populations. CDFW administers the Native Plant Protection Act.

City of Temecula General Plan

The City General Plan was prepared pursuant to state law, which requires cities and counties to adopt a general plan. The General Plan guides growth and land development of the community, and is the foundation for establishing goals, purposes, and zoning and activities. The Open Space/Conservation Element provides for the preservation and conservation of environmental resources within the City. The element includes goals, policies, programs related to preservation of water resources and biological resources (City of Temecula 2005b).

3.4.1.2 Environmental Setting

3.4.1.2.1 SENSITIVE COMMUNITIES

Vegetation

Sensitive vegetation communities are identified as high priority for inventory in the List of Vegetation Alliances and Associations (CDFW 2020) by a state rarity ranking of S1, S2, or S3. The Proposed Project site consists of vacant lots that are composed of disturbed habitat (Google Earth 2021). The Tribe maintains the property by

routine discing to prevent vegetation growth and the spread of invasive vegetation. Disturbed habitat is not recognized by CDFW (2020); therefore, this non-natural land cover is not considered a sensitive vegetation community. Therefore, the Proposed Project Alternative would result in no effect to sensitive communities.

Special-Status Species

Wildlife

For this environmental assessment, "special-status" species are those that are any of the following:

1. Listed, proposed for listing, or candidates for listing as threatened or endangered under the federal Endangered Species Act
2. Listed or candidates for listing as threatened or endangered under the California Endangered Species Act
3. A state fully protected species
4. A California Department of Fish and Wildlife Species of Special Concern
5. A species listed on the California Native Plant Society Inventory of rare and Endangered Plants with a California Rare Plant Rank of 1B or 2B

The Proposed Project site contains low-quality, disturbed habitat that lacks native habitat to support most special-status wildlife species. Review of biological resource databases and biological resources determined the site provides potential habitat for two special-status species: burrowing owl (*Athene cunicularia*) and white-tailed kite (*Elanus leucurus*).

In addition, there is potential habitat for an additional four special-status wildlife species within the 500-foot buffer: western spadefoot (*Spea hammondii*), vernal pool fairy shrimp (*Branchinecta lynchi*), San Diego fairy shrimp (*Branchinecta sandiegonensis*), and Riverside fairy shrimp (*Streptocephalus woottoni*).

Burrowing owl: Burrowing owl is a state species of special concern that has the potential to occur on the non-native grasslands and disturbed habitats present within the site. Burrowing owls are known to be year-round inhabitants of artificial, open areas such as golf courses, road allowances, vacant lots, and irrigation ditches. This species requires the use of rodent burrows for roosting and nesting cover. They are also known to use pipes and culverts, and may dig their own burrow in soft, friable soil (County of Riverside 2003). Their occurrence potential is low because the site is routinely maintained through discing, which leads to few burrow resources. In addition, the species has the potential to occur in the open disturbed habitat between the site and the roadway, and dominated by non-native grasses in the buffer area.

White-tailed kite: White-tailed kite is a state fully protected species. Although the Proposed Project site does not provide suitable nesting habitat for this species, both the site and study area buffer provide suitable foraging habitat. This species is known to frequently forage in and around highway medians and margins, particularly during the late summer to winter, but it primarily searches for meadow voles, which are unlikely to occur in a regularly disced area. The occurrence potential is low due to a lack of nesting habitat, the high level of disturbance to the site via discing, and the fact that there are no known nests in the vicinity of the Proposed Project site.

Western spadefoot: Western spadefoot is a state species of concern. Although this species most commonly occurs in grasslands with vernal pools, it will also use ephemeral wetlands where water persists for at least 3 weeks. Western spadefoot toads are a burrowing species and are not often above the ground. They are nocturnal and emerge from their burrows to move about and to breed during rainy nights (County of Riverside 2003). The adjacent flood channel within the study area buffer provides a potential suitable vernal pool habitat to support this species. The occurrence potential is low due to the surrounding urban development and high level of site disturbance due to the regularly discing of the site.

Vernal pool fairy shrimp: Vernal pool fairy shrimp is federally listed as threatened. The flood channel adjacent to the Proposed Project site in the study area buffer may provide marginally suitable habitat for this species. Vernal pool fairy shrimp are small aquatic crustaceans (adults range in size from 11–25 millimeters in length) restricted to vernal pools or vernal pool-like habitats (USFWS 2005). The species is uniquely adapted to the short-

lived timeline of their habitat setting (Eriksen and Belk 1999). The occurrence potential for vernal pool fairy shrimp is low in the study area given the surrounding urban development, lack of nearby historical locations, and the likely continuously moist soil conditions within the channel.

San Diego fairy shrimp: San Diego fairy shrimp is federally listed as endangered. The flood channel adjacent to the Proposed Project site in the study area buffer may provide marginally suitable habitat for this species. San Diego fairy shrimp is a small aquatic crustacean (mature adults range from 14–16 millimeters in length) found in vernal pools between 2 to 12 inches deep within Southern California and parts of Baja California, Mexico. This species is closely related to vernal pool fairy shrimp. This species can be found in ditches and road ruts that hold water (USFWS 1998). The occurrence potential is low in the study area given the surrounding urban development, lack of historical locations, and the likely continuously moist soil conditions within the channel.

Riverside fairy shrimp: Riverside fairy shrimp is federally listed as endangered. Riverside fairy shrimp is found in deep, cool-water vernal pools and less frequently in road ruts and ditches. Fully mature, this species ranges in size from 13 to 25 millimeters in length. The range of this species runs from the Santa Rosa Plateau south into Baja, Mexico (USFWS 1998). The flood channel adjacent to the Proposed Project site in the study area buffer may provide marginally suitable habitat for this species. The occurrence potential within the study area buffer is moderate because there are nearby occurrences of the species to the west and south of the site, although the channel likely maintains continuously moist soil conditions, which does not allow fairy shrimp cysts to dry and continue their life cycle.

Critical Habitat

The Proposed Project site is disturbed and routinely maintained through discing to control vegetation. No federally listed species or critical habitat occurs at the Proposed Project site (USFWS 2021a).

Migratory Birds

There are no trees within the Proposed Project site, but there are shrubs and cattails in the study area buffer along the southwestern of the Proposed Project site that could provide nesting habitat (Google Earth 2021). Ground-nesting birds are not expected to occur due to the maintained condition of the site and the urban setting.

Bald and Golden Eagles

The Proposed Project site is not within and does not contain primary bald eagle or golden eagle habitat. There is no suitable nesting habitat on or proximate to the site, and the site is not expected to function as foraging habitat because eagles typically avoid areas where humans are present on foot. The adjacent sidewalk and heavily used road would dissuade eagle use.

Wetlands and Waters of the United States

Based on aerial imagery (Google Earth 2021; NETRonline 2021), along with a literature review of the U.S. Geological Survey 7.5-minute topographic quadrangle (USGS 2021), a Natural Resources Conservation Service soil map (USDA 2021a), USEPA Watershed Assessment, Tracking and Environmental Results System (USEPA 2021), which includes the National Hydrography Dataset and the National Wetland Inventory (USFWS 2021b), the Proposed Project site does not contain any potentially jurisdictional wetlands or waters under the U.S. Army Corps of Engineers jurisdiction. A potentially jurisdictional unnamed non-wetland drainage channel occurs immediately adjacent to the Proposed Project site along the north shoulder of Pechanga Parkway.

3.4.2 Proposed Project Alternative

Vegetation

As stated above, the Proposed Project site consists of non-natural land cover is not considered a sensitive vegetation community. Therefore, the Proposed Project Alternative would not result in direct or indirect impacts to sensitive vegetation.

Special-Status Species

Burrowing owl: Construction of the Proposed Project Alternative has the potential to disturb burrowing owls that may reside, overwinter, or nest on or near the parcels, resulting in a potential long-term adverse direct or indirect

impact. There are minimal opportunities for burrowing owls to reside on the site due to the limited burrow resources and urban setting. A mitigation measure (MM-BIO-1) is presented in Section 4.0, Mitigation Measures, to ensure that potential impacts to burrowing owl are avoided, should the species occur on site. With implementation of this mitigation measure, the Proposed Project Alternative may affect, but is not likely to adversely affect, burrowing owl.

White-tailed kite: Given the high level of disturbance to the site and the lack of white-tailed kit nests in the vicinity of the site, the Proposed Project Alternative would not significantly impact this species.

Western spadefoot: The Proposed Project Alternative would not directly impact this species, but may indirectly impact the species should it occur within the study area buffer. Indirect impacts to this species include an increase in human activity, construction noise and dust, and soil erosion into the adjacent marsh habitat. Adherence to the BMPs listed under Water Resources in Section 2.2.3, including preparation of a detailed in the SWPPP, which would be prepared prior to construction, would result in the avoidance of these indirect impacts.

Listed fairy shrimp: The Proposed Project Alternative may indirectly impact the species should it occur within the study area buffer. Indirect impacts to this species that could occur during construction include dust and soil erosion into the adjacent marsh habitat. Adherence to BMPs detailed in Section 2.2.3, including the preparation of a SWPPP, would result in the avoidance of these indirect impacts.

Critical Habitat

The Proposed Project Alternative would not impact critical habitat because no critical habitat occurs on the Proposed Project site.

Migratory Birds

Construction of the Proposed Project Alternative has the potential to disturb migratory birds that may forage or nest on or near the Proposed Project site, resulting in a potential long-term adverse indirect impact. Nesting season ranges from February 15 through September 15. There are no trees on the subject parcels, but trees, shrubs, and cattails are present within the study area buffer that could provide nesting habitat. A mitigation measure is presented in Section 4.0 (MM-BIO-2) to ensure that potential impacts to migratory birds and other birds of prey are avoided, should any of these birds occur at the site or study area. With implementation of these mitigation measures, the Proposed Project Alternative may affect, but is not likely to adversely affect, migratory birds.

Bald and Golden Eagles

As stated above, the Proposed Project site does not provide habitat for bald eagle or golden eagle; therefore, no impact to bald or golden eagles would occur.

Wetlands and Waters of the United States

As stated above, no potentially jurisdictional wetlands or waters of the United States are located on the Proposed Project site. Therefore, the Proposed Project Alternative would result in no direct impacts to wetlands or waters of the United States.

A potentially unnamed jurisdictional non-wetland drainage channel occurs immediately adjacent to the Proposed Project site along the north shoulder of Pechanga Parkway; however, this feature would not be directly impacted as a result of the Proposed Project Alternative. Nonetheless, the Proposed Project Alternative could result in short- and long-term indirect impacts to non-wetland waters. However, implementation of BMPs listed in Section 2.2.3 would ensure that any potential impacts to this feature would not be significant.

3.4.3 No Action Alternative

Under the No Action Alternative, the site would not be taken into trust and no future development would occur. The site would remain in its current state. Therefore, vegetation communities and special-status biological resources on the site, as well as within a 500-foot buffer of the site (study area), would remain undisturbed, and the No Action Alternative would have no adverse impacts related to biological resources.

3.5 CULTURAL RESOURCES

3.5.1 Affected Environment

The following discussion describes the existing cultural resources in the vicinity of the Proposed Project site.

3.5.1.1 Regulatory Setting

Section 106 of the National Historic Preservation Act

The Section 106 review process is an integral component of the National Historic Preservation Act that requires federal agencies to identify and assess the impacts their actions may have on cultural resources. Under the review process, each federal agency must consider public views and concerns about historic preservation issues when making final project decisions. The cultural and historic significance of a property is evaluated using established criteria outlined in 36 CFR Section 60.4. If a project will have an adverse impact on significant cultural or historic resources, then the federal agency must implement feasible mitigation measures to reduce or avoid those impacts. The State Historic Preservation Officer must be provided an opportunity to review and comment on mitigation measures prior to implementation of a proposed action.

National Register of Historic Places

The eligibility of a resource for listing in the National Register of Historic Places is determined by evaluating the resource using criteria defined in 36 CFR 60.4, as follows:

> The quality of significance in American history, architecture, archaeology, and culture is present in districts, sites, buildings, structures, and objects of state and local importance that possess integrity of location, design, setting, materials, workmanship, feeling, association, and:
>
> A. That are associated with events that have made a significant contribution to the broad patterns of our history;
> B. That are associated with the lives of persons significant in our past;
> C. That embody the distinctive characteristics of a type, period, or method of construction, or that represent the work of a master, or that possess high artistic values, or that represent a significant and distinguishable entity whose components may lack individual distinction; or;
> D. That has yielded, or may be likely to yield, information important to prehistory or history.

Sites less than 50 years old, unless of exceptional importance, are not eligible for listing in the National Register of Historic Places. In addition to meeting at least one of the criteria outlined above, the property must also retain enough integrity to enable it to convey its historic significance.

Although most historic buildings and many historic archaeological properties are significant because of their association with important events, people, or styles (Criteria A, B, and C), the significance of prehistoric and historic-period archaeological properties is usually assessed under Criterion D. This criterion stresses the importance of the information contained in an archaeological site, rather than its intrinsic value as a surviving example of a type or its historical association with an important person or event. It places importance not on physical appearance, but on information potential.

Native American Tribes

Section 106 of the National Historic Preservation Act was amended in 1990 to require tribal consultation in all steps of the review process when a federal agency project or effort may affect historic properties that are either located on tribal lands, or when any Native American tribe or Native Hawaiian organization attaches religious or cultural significance to the historic property, regardless of the property's location. When such an undertaking occurs on tribal land, the federal agency must notify the appropriate Native American tribes of the undertaking and give those tribes the opportunity to consult, should they wish to do so. The amended policy further allows Native American tribes to designate Tribal Historic Preservation Offices with whom federal agencies are required

to consult in lieu of the State Historic Preservation Officer for undertakings on or affecting historic properties on tribal lands or on tribal ancestral lands.

Archaeological Resources Protection Act

The Archaeological Resources Protection Act of 1979 governs the excavation of archaeological sites on federal and Native American lands in the United States, and the removal and disposition of archaeological collections from those sites. The Archaeological Resources Protection Act aims to secure the protection of archaeological resources and sites on federal and tribal lands, as well as, "foster increased cooperation and exchange of information between governmental authorities, the professional archaeological community, and private individuals" (Section 2[4][b]). The Archaeological Resources Protection Act has provided stronger law enforcement guidelines for the protection of public archaeological sites, and has substantially increased the penalties that can be levied against convicted violators.

Paleontological Resources Preservation Act

The Paleontological Resources Preservation subtitle of the Omnibus Public Land Management Act (16 USC Section 470aaa to aaa-11) requires the U.S. Department of Agriculture and the U.S. Department of the Interior to issue implementation regulations to provide for the preservation, management, and protection of paleontological resources on federal lands, and ensure that these resources are available for current and future generations to enjoy as part of America's national heritage (USDA 2021b).

Paleontological resources are defined as the traces or remains of prehistoric plants and animals. Such remains often appear as fossilized or petrified skeletal matter, imprints, or endocasts, and reside in sedimentary rock layers. Fossils are important resources due to their scientific and educational value. Fossil remains of vertebrates are considered significant. Invertebrate fossils are considered significant if they function as index fossils. Index fossils are those that appear in the fossil record for a relatively short and known period of time, allowing geologists to interpret the age range of the geological formations in which they are found.

3.5.1.2 Environmental Setting

Prehistoric Setting

The prehistory of this portion of what is now Southern California, beginning 12,000 years ago, is the history of people adapting to a changing environment through the development of an increasingly sophisticated technological base, exploitation of seasonally available resources, and the development of trade networks. Detailed information regarding the history of the region may be found in the cultural resources report in Appendix B.

Historic Setting

Spanish explorers arrived in what would become Riverside County in the late 18th century, and missions established in neighboring counties exerted influence within the area. Under Spanish control, the missions set out to convert local populations to Christianity and to expand the influence of the Spanish Empire. Mexico gained independence from Spain in 1821, and the missions were secularized in 1833 to turn over large land holdings to private citizens. Four ranchos were created in the Temecula area, including Rancho Temecula that covered the whole of what is now the Temecula Valley. The rancho period did not last long, as independence from Mexico and the discovery of gold in the mid-1800s led to California joining the United States in 1850 and an influx of white settlers into the region. Detailed information regarding the history of the region can be found in the cultural resources report in Appendix B.

Cultural Resources Investigation

Records Search

A records check was completed in May 2021 through the Pechanga Cultural Resources Department's GIS database, which maintains all prehistoric cultural sites located within Pechanga's Traditional Territory. No previous cultural sites were identified in the records search. Another record search for the subject property was requested from the Eastern Information Center in June 2021, but no reply has been received to-date due to the backlog of requests resulting from the COVID-19 pandemic. The Pechanga Cultural Resources Department

obtained an Eastern Information Center records search in January 2018, and no new archaeological data was recorded at the Proposed Project site at that time. Detailed information on the records searches are provided in the cultural resource report (Appendix B).

Field Survey

The Proposed Project site was initially surveyed by the Pechanga Tribal Historic Preservation Office in 2005, when the parcels were mass-graded, with Pechanga Tribal Monitors observing all ground-disturbing activities. This initial survey did not identify any historic properties, known archaeological sites, or cultural materials on site. The site was re-surveyed in May 2021, and no new cultural resources were identified. Detailed information on the surveys are provided in the cultural resource report (Appendix B).

Paleontological Resources

According to published geological mapping by Kennedy et al. (2007) at a scale of 1:100,000, the Proposed Project site is underlain by young alluvial valley deposits (Holocene and late Pleistocene, 126,000 years old to present) (Cohen et al. 2021). The Pauba Formation is mapped along Pechanga Parkway at the southern extent of the Proposed Project site.

In 2003 at the Harveston residential development in Temecula, approximately 6 miles northwest of the Proposed Project site, late Pleistocene (126,000 to 11,700 years old) age fossils were recovered. The fossils were found in an unnamed sandstone (Rancholabrean North American Land Mammal Age) within young alluvial valley deposits and included short-horned bison (*Bison antiquus*), mammoth (*Mammuthus*), extinct llama (*Hemiauchenia*) deer (*Odocoileus*), and antelope (cf. *Antilocapra*) (Cohen et al. 2021; Hohman et al. 2020). Furthermore, middle Pleistocene (Irvingtonian North American Land Mammal Age, approximately 781,000 to 126,000 years old) age fossils were recovered from the Pauba Formation. These fossils included horse (*Equus*), sloth (*Paramylodon*), deer (*Odocoileus*), and extinct llama (*Hemiauchenia*) (Cohen et al. 2021; Hohman et al. 2020).

Young alluvial valley deposits mapped at the surface of the Proposed Project site have a low potential to yield paleontological resources. However, older, Pleistocene age sedimentary deposits, such as the unnamed sandstone and Pauba Formation, and are considered to have a high potential to yield paleontological resources. Implementation of mitigation measure MM-PAL-1 would ensure impacts to paleontological resources would be less than significant.

3.5.2 Proposed Project Alternative

As discussed in Section 3.5.1, Affected Environment, and Appendix B, based on the field survey, archaeological reports, and internal Tribal records, the Proposed Project site does not contain any known sacred, cultural, or other archaeological resources, nor is the Proposed Project site part of a defined traditional cultural landscape or known traditional cultural property. As a result, the Proposed Project Alternative is unlikely to have an adverse impact on cultural resources. The potential occurrence for fossils at the Proposed Project site is low. Nonetheless, inadvertent discoveries of cultural resources, including archaeological resources, human remains, or paleontological resources, could occur during future construction of the Proposed Project Alternative. Any inadvertent discovery of archaeological resources would be subject to Section 106 of the National Historic Preservation Act as amended (36 CFR Section 800), NAGPRA (25 USC Section 3001 et seq.), and the Archaeological Resources Protection Act of 1979 (16 USC Section 470aa–mm). Mitigation Measure (MM-)CUL-1 through MM-CUL-3 and MM-PAL-1 outline procedures for compliance with these applicable regulations in the event of an unanticipated discovery of archaeological resources, human remains, or paleontological resource. With adherence to applicable laws and implementation of mitigation measures, no adverse effects to previously unknown cultural or paleontological resources would occur.

3.5.3 No Action Alternative

Under the No Action Alternative, the Proposed Project site would not be taken into trust by the Tribe and development would not occur in the near-term. As a result, no adverse impacts to cultural or archaeological resources would occur.

3.6 SOCIOECONOMIC RESOURCES/ENVIRONMENTAL JUSTICE

3.6.1 Affected Environment

The following discussion describes the existing socioeconomic and environmental justice issues in the vicinity of the Proposed Project site.

3.6.1.1 Regulatory Setting

Executive Orders 12898

EO 12898, Federal Actions to Address Environmental Justice in Minority and Low-Income Populations, directs federal agencies to develop an environmental justice strategy that identifies and addresses disproportionately high and adverse human health or environmental effects of their programs, policies, and activities on minority populations and low-income populations. The CEQ has oversight responsibility of the federal government's compliance with EO 12898 and NEPA, and, in consultation with the USEPA and other agencies, has developed guidance to ensure environmental justice concerns are effectively identified and addressed.

According to guidance from the CEQ (1997) and USEPA (1998), agencies should consider the composition of the affected area to determine whether minority populations, low-income populations, or Native American tribes are present in the area affected by a proposed action, and, if so, whether there may be disproportionately high and adverse environmental effects to those populations. The geographic scale of this analysis is the Census tract. Census tracts are small, relatively permanent statistical subdivisions of a county designed to be relatively homogeneous units with respect to population characteristics, economic status, and living conditions at the time of establishment. Statistics of Census tracts provide a representation of a community's racial and economic composition.

Communities may be considered "minority" if one of the following characteristics apply:

- The cumulative percentage of minorities within a Census tract is greater than 50% (primary method of analysis); or
- The cumulative percentage of minorities within a Census tract is less than 50%, but the percentage of minorities is meaningfully greater than the minority population percentage in the general population or other appropriate unit of geographic analysis (secondary method of analysis).

The following races are considered minorities under EO 12898:

- American Indian or Alaskan Native
- Asian or Pacific Islander
- Black, not of Hispanic origin
- Hispanic

People of two or more races and classified as "other" were also considered to be minority races for the purpose of this environmental justice analysis.

According to USEPA, either the county or the state can be used when considering the scope of the "general population." A definition of "meaningfully greater" is not given by the CEQ or USEPA, although the latter has noted that any affected area that has a percentage of minorities above the state's percentage is a potential minority community, and any affected area with a minority percentage double that of the state's is a definite minority community under EO 12898.

Communities may be considered "low income" if one of the following characteristics applies:

- The median household income for a Census tract is below the poverty line (primary method of analysis); or
- Other indications are present that indicate a low-income community is present within the Census tract (secondary method of analysis).

In most cases, the primary method of analysis will suffice to determine whether a low-income community exists in the affected environment. However, when a Census tract income may be just over the poverty line or where a low-income pocket within the tract appears likely, the secondary method of analysis may be warranted. Other indications of a low-income community under the secondary method of analysis include limited access to health care, overburdened or older infrastructure, and dependence on subsistence living.

3.6.1.2 Environmental Setting

Economy and Employment

The most recent 5-year estimate for the American Community Survey (ACS) administered by the U.S. Census Bureau is 2015–2019. The U.S. Census Bureau has not released its standard 2020 ACS 1-year estimates because of the impacts of the COVID-19 pandemic on data collection. The average unemployment rate of people 16 years of age and older from 2015–2019 was approximately 6.1% statewide, 7.5% for Riverside County, and 5.8% for the City (U.S. Census Bureau 2020a). In 2019, the City and Riverside County had a labor force of 56,392 and 1,120,445, respectively (U.S. Census Bureau 2020a).

Demographics and Housing

In 2019, the population of Riverside County was 2,470,546, and the population of the City was 114,761. Between 2010 and 2019, Riverside County's population increased by approximately 12.8% relative to its 2010 population of 2,189,765, and the City's population increased by approximately 14.7% compared its 2010 population of 100,013 (U.S. Census Bureau 2020a). The on-Reservation population of the Tribe is approximately 361, which includes both members and nonmembers (U.S. Census Bureau 2020b).

Based on the 2012–2019 ACS 5-Year Estimates, Riverside County has 857,148 housing units, with a vacancy rate of 13.8% (U.S. Census Bureau 2020c). The City has a 5.0% vacancy rate, with a total of 1,301 vacant units (U.S. Census Bureau 2020d).

Property and Sales Taxes

The total assessed value of the southern parcel for fiscal year 2016–2017 was $7,121,978, and the total assessed value of the northern parcel for fiscal year 2016–2017 was $4,553,396 (U.S. Department of the Interior 2021). The collected property taxes for the southern parcel for fiscal year July 1, 2020 to June 30, 2021 were $107,853.86, and the collected property taxes for the northern parcel in fiscal year July 1, 2020 to June 30, 2021, were $68,953.44 (Riverside County Treasurer – Tax Collector 2020a, 2020b).

According to the City of Temecula's Adopted Annual Operating Budget for Fiscal Year 2021-2022, 44 percent of the City's general fund revenue is generated by sales tax, which is the City's largest revenue source (Temecula 2022). The City's adopted budget for Fiscal Year 2021-2022 identifies $39,890,358 revenue generated by sales tax. The two parcels that make up the project area are undeveloped; therefore, the parcels are not currently generating sales tax for the City of Temecula.

Environmental Justice

Census tracts that are analyzed within this EA include Census tracts 432.52 and T001, which contain the parcels within the City and the Tribe's Reservation, as well as adjacent Census tracts.

Race

The U.S. Census Bureau 2015–2019 ACS 5-Year Estimates provide the most current racial data available by Census tract. The racial composition of the Census tracts is not expected to have changed substantially since the time the data was reported. Table 3-7 displays the population of each minority race by Census tract in the vicinity of the parcels.

The State of California has a 28.1% minority population out of over 39 million residents. The population in the Census tract that includes the Tribe's Reservation (Tribal Census tract T001) is composed of approximately 84.8% minorities, qualifying it as a minority population. The Proposed Project site is also located within Census Tract

432.52. The population of Census Tract 432.52 is composed of approximately 30.0% minority population. Adjacent Census tracts vary in minority population numbers, several of which include substantial minority populations.

Members of the Tribe, regardless of where they reside, are considered a minority population. The Tribe is considered to be a minority community for the purposes of the required EO 12898 analysis.

Table 3-7
Population Demographics, Income, and Employment – Proposed Project Alternative Site and Adjacent Census Tracts

Area (State, County, Census Tract) [a,b]	Total Population	Percent Minority (Non-White)	Percent of Population Below Poverty Level[c]	Percent of Labor Force Employed[c]	Median Household Income[c]
California State	39,512,223	28.1%	11.8%	63.3%	$75,235
Riverside County	2,470,546	20.4%	11.3%	59.7%	$67,005
City of Temecula	114,761	32.0%	6.8%	65.4%	$96,183
Pechanga Reservation (T001)	361	84.8%	21.8%	262	$75,625
432.52	9,584	33.1%	0.6%	62.3%	$118,920
432.54	5,193	30.0%	3.9%	62.8%	$84,261
432.08	5,039	57.1%	—	—	—
432.48	4,670	36.7%	5.1%	63.6%	$120,611
432.02	5,630	47.1%	—	—	—
432.03	3,482	47.8	—	—	—

[a] 2015–2019 ACS Community Survey, 5-Year Estimates (U.S. Census Bureau 2020a).
[b] Pechanga Reservation is within Tribal Census Tract T001 per the U.S. Census Bureau ACS (U.S. Census 2020a). Data is approximate and does not include margins of error.
[c] Recent data for Census Tracts 432.08, 432.02, and 432.03 related to poverty, employment, and median household income is not available.

Income

A low-income community is defined as a Census tract where the median household income falls below the poverty limit. The U.S. Census Bureau uses a set of income thresholds that vary by family size and composition to determine who is in poverty. If a family's total income is less than the family's threshold, then that family and every individual in it is considered in poverty. The U.S. Census Bureau's 2015–2019 ACS 5-Year Estimates is the most current household income dataset available by Census tract. The Proposed Project site within the City of Temecula is within Census Tract 432.52, which is surrounded by the following Census Tracts: 432.54, 432.08, 432.48, 432.02, and 432.03. Table 3-7 shows the median household income for the State of California, the County of Riverside, the City, and each identified Census tract.

3.6.2 Proposed Project Alternative

Economy and Employment

The Proposed Project Alternative would result in a variety of benefits to the regional economy, including increases in overall economic output and employment opportunities. Construction and operation of the Proposed Project Alternative would generate temporary employment opportunities and wages that would be primarily filled by the available labor force from Riverside County.

New one-time employment opportunities would be generated during the construction phase of the Proposed Project Alternative. The model used in the Transportation Consistency Analysis estimates that 125 employees would be present at the Proposed Project site during construction of the Proposed Project Alternative (see Appendix C). Using an employment generation rate of one employee per 1,148 square feet, operation of the Proposed Project Alternative would generate approximately 174 new direct employment positions (Southern California Association of Governments 2001). Employment opportunities generated by future development of the

Proposed Project Alternative would include entry-level, mid-level, and management positions. Average salaries offered are expected to be consistent with those of other Tribal and commercial facilities, and competitive in the local labor market.

The anticipated increase in employment opportunities throughout the City could result in employment and wages for persons previously unemployed, which would increase the ability of the population to obtain health and safety services, and would contribute to the alleviation of poverty among lower-income households. A significant impact to the local unemployment rate would not be anticipated to occur. Overall, the Proposed Project Alternative would result in short- and long-term beneficial impacts to the regional economy.

Tax Impacts

The Proposed Project Alternative would result in a variety of fiscal impacts. The Tribe would not pay corporate income taxes on revenue or property taxes on Tribal trust land. However, potential effects on state and federal tax revenues resulting from operation of the Proposed Project Alternative are expected to be positive as a result of increased local, state, and federal tax revenues resulting from construction and operation of the Proposed Project Alternative. For example, to the extent consistent with applicable law, state and federal income tax would be collected from contractors and consultants paid to design and construct the Proposed Project Alternative, and state and local sales tax would be collected on the sale of construction materials purchased by such contractors. Further, while the Proposed Project site currently does not produce any sales and use tax revenue, once the Proposed Project Alternative is operational, state sales and use taxes may be collected on transactions in a manner consistent with California's Regulation 1616, *Federal Areas.* However, the Proposed Project Alternative's increase in demand for public services would result in increased costs for local governments to provide these services. Increase in demand for public services would be offset by mutual aid agreements, as discussed in detail in Section 3.9, Public Services and Utilities.

The Proposed Project Alternative would result in loss of approximately $176,807.30 for Riverside County property taxes ($107,853.86 collected for the southern parcel and $68,953.44 collected for the northern parcel in fiscal year July 1, 2020 to June 30, 2021 [Riverside County Treasurer – Tax Collector 2020a, 2020b]). The total property taxes collected in Riverside County during fiscal year 2020–2021 was $414.4 million (County of Riverside 2021). Therefore, the loss of property taxes for the County of Riverside associated with transferring the land into trust would be approximately 0.04%. Therefore, the Proposed Project Alternative would result in minor long-term direct adverse impact to County of Riverside tax revenue.

The project parcels are not currently generating sales tax revenue for the City of Temecula; therefore, the Proposed Project Alternative would not impact current sales tax revenue for the City. However, because the parcels are currently zoned by the City for commercial development and the Proposed Project Alternative would remove the parcels from City jurisdiction, the Proposed Project Alternative would impact the City's potential future sales tax revenue from future commercial development on the parcels. Because specific information on the businesses that would be part of the future commercial development is unknown at this time, it is not possible to calculate the loss of potential future sales tax revenue. However, considering that the parcels are not currently generating sales tax revenue for the City and potential future sales tax revenue generated by the commercial development would be a small component of the City's overall sales tax revenue, the loss of potential future sales tax revenue would result in minor long-term adverse impact to the City of Temecula tax revenue.

Housing

Because indirect and induced employment opportunities from the Proposed Project Alternative would be dispersed among a variety of different businesses throughout the region, it is expected that available employees would already be located near these locations and would not require relocation. It is estimated that the increase in employment generated by future development of the Proposed Project Alternative would result in approximately 125 workers during construction and approximately 174 new direct employment positions during operations (Southern California Association of Governments 2001). As discussed above, the City's housing market has a 5.0% vacancy rate, with a total of 1,301 vacant units (U.S. Census Bureau 2020d). Therefore, although not anticipated, if any new employees would relocate to the City, it is anticipated that sufficient vacant homes would

be available to accommodate any potential increase in population resulting from impacts to the regional labor market under the Proposed Project Alternative. Therefore, the Proposed Project Alternative is not expected to stimulate regional housing development. A significant impact to the housing market would not occur.

Environmental Justice for Minority and Low-Income Populations

As discussed above, the population in the Census tract that includes the Tribe's Reservation (Tribal Census Tract T001) is composed of approximately 84.8% minorities, qualifying it as a minority population. The Proposed Project site is also located within Census Tract 432.52, the population of which is composed of approximately 30.0% minority population. Adjacent Census tracts vary in minority population numbers, several of which include substantial minority populations. As described throughout this section of this EA, after mitigation, all adverse environmental impacts of the Proposed Project Alternative would be reduced. Furthermore, the Proposed Project Alternative would not displace any residential populations or commercial properties in the vicinity of the Proposed Project site. Beneficial effects to minority populations would occur as a result of the Proposed Project Alternative's beneficial impacts to the local economy (including the creation of permanent jobs). Beneficial impacts include an increased revenue base for strengthening the Tribe's government and Tribal services, as described in detail below. Therefore, the Proposed Project Alternative would not result in disproportionately high or adverse environmental effects to minority or low-income communities, including the Tribe.

Effects to the Pechanga Band of Mission Indians

The Proposed Project Alternative would provide important economic and social benefits to the Tribe by generating the revenue needed to fund Tribal services. Further, the Tribe aims to re-establish its historical land base, which requires substantial revenues due to high acquisition costs. Revenue from the Proposed Project Alternative would have a long-term beneficial impact on the Tribe. Economic development supports many tribal government operations including (but not limited to): cultural and language preservation programs, environmental and sustainability programs, tribal school and youth education programs, senior services, community health and safety initiatives, and other government support activities. Therefore, the Proposed Project Alternative would have beneficial socioeconomic impacts for the Tribe.

3.6.3 No Action Alternative

Under the No Action Alternative, the Proposed Project site would not be taken into trust, and no development would occur. Therefore, none of the potential effects identified under the Proposed Project Alternative would occur.

3.7 TRANSPORTATION/CIRCULATION

3.7.1 Affected Environment

The following discussion describes the existing transportation and circulation environment in the vicinity of the Proposed Project site. Information in this section was obtained from the Transportation Consistency Analysis Technical Memorandum completed by Dudek in September 2021 (Appendix C).

3.7.1.1 Regulatory Setting

Wolf Creek Specific Plan

The Specific Plan (City of Temecula 2000) established land uses, zoning standards, and design guidelines to ensure orderly and high-quality development of the approximately 557 acres located at the southern end of the City. The northern parcel is zoned as Neighborhood Commercial (with 80,000 square feet) (see Figure 3-1, Existing Land Use Designations), and the southern parcel is zoned as Community Commercial (with 120,000 square feet) (see Figure 3-1) in the Wolf Creek Specific Plan.

Temecula General Plan, Recent Traffic Volumes, and Analysis

The Pechanga Resort Hotel Expansion Traffic Impact Analysis (TIA) (June 2015) analyzed the critical roadway segments and intersections within the Specific Plan area and the City (Attachment B to Appendix C of this EA). The traffic study analyzed 19 intersections under Existing, Near-Term (Year 2019), and General Plan (Year 2035)

with and without project conditions. The traffic analysis included the planned local and regional improvements, such as the SR-79 (Temecula Parkway)/I-15 freeway interchange and the Western Bypass project.

Table 3-8 summarizes the average daily traffic (ADT) volumes along Pechanga Parkway per traffic counts collected by the City of Temecula in the year 2019 and the estimated ADT in the Pechanga Resort Hotel Expansion TIA for the year 2019 and year 2035 traffic analysis. As shown in the table below, the ADT volumes along Pechanga Parkway in the year 2019 were lower compared to the traffic volumes analyzed in the TIA. Due to the COVID-19 pandemic restrictions most of urban and sub-urban area experienced non-typical traffic conditions in year 2020-2021 and traffic volume is returning to normal in second half of the year 2021. Therefore, year 2019 traffic volumes are generally considered representative of existing conditions for the purposes of traffic analysis. The year 2019 and 2035 traffic volumes reflect the growth in traffic anticipated from development of cumulative projects in the area along with ambient growth that would occur due to background growth in population and employment. Therefore, it can be concluded that the traffic volumes included in the recent analysis in the TIA accounted for growth in the area and provided a conservative analysis of both Year 2019 and Year 2035 conditions.

Table 3-8
Average Daily Traffic Volumes along Pechanga Parkway

Roadway Segment	ADT per City of Temecula[1]	ADT per Pechanga Resort Hotel Expansion TIA	ADT per Pechanga Resort Hotel Expansion TIA
Pechanga Parkway	Year 2019	Year 2019	Year 2035
south of Rainbow Valley Boulevard	44,270	47,701	53,251
north of Via Gilberto	33,290	37,965	39,855
south of Wolf Valley Road	31,240	34,842	35,662
north of Deer Hollow Way	15,680	17,387	22,807

Notes: ADT – Average Daily Traffic
[1] City of Temecula ADT accessed at Traffic-Count-Summary-PDF (temeculaca.gov).

Institute of Transportation Engineers

The Institute of Transportation Engineers (ITE) is an international educational and scientific association of transportation professionals who are responsible for meeting mobility and safety needs. The ITE publishes technical resources on a broad range of topics, from geometric design and safety to trip and parking generation. Guidance on trip generation was adopted from ITE's Trip Generation Manual (10th Edition), which includes information on how to filter data to match local conditions.

3.7.1.2 Environmental Setting

Regional access to the Proposed Project site would be via I-15, SR-79, and Pechanga Parkway. Local access to the Proposed Project site would be via Wolf Valley Road and Wolf Creek Drive. Figure 3-1 shows the existing land uses, per the Specific Plan. The Proposed Project Alternative comprises two sites located to the north and south of Wolf Valley Road (herein referred to as the northern parcel and southern parcel). Based on the Specific Plan, access driveways to the northern and southern parcels would be provided along Wolf Valley Road. The access from Wolf Valley Road would provide left-in/right-in and right-out access from each site. One full-access driveway to each site would be provided from Wolf Creek Road (previously called Interior Loop Road per the Specific Plan).

Figure 3-1 Existing Land Use Designations

Existing Roadways

Pechanga Parkway is built as a six-lane principal arterial from SR-79 to south of Via Eduardo, where it transitions to a four-lane major arterial. South of Pechanga Road, Pechanga Parkway becomes a two-lane undivided roadway as it becomes Pala Road. The posted speed limit is generally 45 miles per hour along Pechanga Parkway, and on-street parking is prohibited. Several bus stops are located along the roadway. There is a striped Class II bike lane from Clubhouse Drive to Deer Hollow Way.

Wolf Valley Road is classified as a four-lane major arterial in the City of Temecula's General Plan Circulation Element (City of Temecula 2005b). Wolf Valley Road is currently constructed as a four-lane divided roadway with striped Class II bike lanes. The posted speed limit is generally 45 miles per hour, and on-street parking is not allowed the Wolf Creek Road. Wolf Valley Road is signal-controlled at its intersection with Pechanga Parkway. Wolf Valley Road between Pechanga Parkway and Wolf Creek Drive is constructed with two left-turn lanes that would provide access into the Proposed Project site.

Wolf Creek Drive is classified as a two-lane collector in the City of Temecula's General Plan Circulation Element (City of Temecula 2005b). Wolf Creek Drive is currently built as a two-lane undivided roadway with intermittent turn pockets. The posted speed limit varies between 25 and 35 miles per hour, and on-street parking is generally prohibited. Wolf Creek Drive is signal-controlled at its intersection with Wolf Valley Road. The Proposed Project site would have full access driveways from Wolf Creek Drive.

Pedestrian Facilities

The above-mentioned roadways are constructed with curbs, gutters, and sidewalks along both sides of the street. There are pedestrian crosswalks with Americans with Disabilities Act (ADA) compliant curb ramps at the intersections of Pechanga Parkway/Wolf Valley Road and Wolf Creek Drive/Wolf Valley Road.

Transit Facilities

The Riverside Transit Authority provides bus service in Riverside County. Route 24 provides service near the Proposed Project site and connects the Promenade Mall and Temecula Valley Hospital. It operates at a frequency of approximately 65 minutes on weekdays and weekends. The nearest bus stop for Route 24 is located along Pechanga Parkway, near its intersection with Wolf Valley Road adjacent to the Proposed Project site.

Methodology

Information in this section was obtained from the Transportation Consistency Analysis Technical Memorandum completed by Dudek in September 2021 (Appendix C). The traffic consistency analysis was conducted with the Wolf Creek Specific Plan (Specific Plan or WCSP) (City of Temecula, 2000) as well as General Plan Year 2035 traffic volumes (based on review of recent traffic study for the Pechanga Casino Resort Hotel) to determine whether traffic impacts from the development of the project site were included and adequately addressed in those documents.

3.7.2 Proposed Project Alternative

Operational Phase

The Proposed Project site is zoned as Community Commercial which generally includes a major store, detached restaurants, grocery and/or drugstores and Neighborhood Commercial which generally includes grocery store, drugstore, cleaners, beauty and barber shop, and fast-food services. These uses are considered local serving retail uses which would attract trips from existing residential areas within the WCSP and adjoining areas. Consistent with the Specific Plan, the Proposed Project Alternative would develop 200,000 square feet of commercial retail uses. Using the applicable trip rates for commercial/retail uses (adopted from the ITE Trip Generation Manual), the Proposed Project Alternative would generate 7,550 daily trips, including 188 AM peak-hour trips (117 inbound and 71 outbound) and 762 trips during the PM peak hour (366 inbound and 396 outbound). Pass-by reduction refers to the trips that are generated from individuals using the roadway but not making a stop at the site. The pass-by reduction rate was adopted from the ITE Trip Generation Handbook (3rd Edition). Using pass-by reduction, the Proposed Project Alternative would generate net new 6,266 daily trips, including 156 AM peak hour trips (97 inbound and 59 outbound) and 503 trips during the PM peak hour (242 inbound and 261 outbound).

The daily trip generation from the Proposed Project Alternative (i.e., 6,266 daily trips) is significantly lower than the 13,570 daily trips included in the traffic analysis conducted for the WCSP EIR., The traffic volumes from the Proposed Project Alternative are consistent with the results included in the Traffic Impact Analysis for the Pechanga Resort Hotel Expansion and the General Plan Year 2035 conditions for the area (see Appendix C). The Proposed Project would not add significant traffic to regional facilities such as SR 79 or I-15 and would not be a part of direct or cumulative impact to the intersections and roadway segments along those regional facilities. Local roadway improvements to segments of Loma Linda Road, Wolf Valley Road and Wolf Creek Drive have been incorporated and constructed over the years per WCSP.

Because development of the Proposed Project Alternative is projected to be within the daily trip threshold, no new traffic impacts to the roadway segments and intersections (compared to the Specific Plan analysis and Pechanga Resort Hotel Expansion traffic analysis) within the Specific Plan area and the surrounding area are anticipated. Therefore, no significant adverse impacts to transportation would occur during the operations phase of the Proposed Project.

Construction Phase

The construction trip generation of the Proposed Project Alternative was estimated using the construction phasing and schedule included in the Air Quality and Greenhouse Gas Emissions Memorandum (Appendix A). Proposed Project Alternative construction would include site preparation, grading, building construction, paving, and architectural coating phases. The peak construction phase of the Proposed Project Alternative is expected to generate approximately 356 daily trips, with 33 AM peak-hour trips (26 inbound and 7 outbound) and 33 PM peak-hour trips (7 inbound and 26 outbound). With the application of passenger-car equivalence (PCE) factors to truck trips,, the construction phase is expected to generate approximately 462 daily trips, with 47 AM peak-hour trips (33 inbound and 14 outbound) and 47 PM peak-hour trips (14 inbound and 33 outbound). Construction trip generation would be significantly lower than the Proposed Project Alternative's operational trip generation. Lastly, as identified in Section 2.2.2 above, the Proposed Project Alternative would be required to meet the conditions of a City encroachment permit for minimizing traffic impacts from construction. This may include the preparation of a Traffic Control Plan for construction components within the public right-of-way (roads) to ensure safe passage of vehicles, bicycles or pedestrians through the work zone. Therefore, construction of the Proposed Project Alternative would not have a significant effect to the adjacent roadway facilities and traffic.

3.7.3 No Action Alternative

Under the No Action Alternative, the subject property would not be taken into trust by the Pechanga Band of Luiseño Indians, and development would not occur in the near-term. As a result, no adverse impacts resulting from anticipated transportation increases would occur on the subject property from this alternative.

3.8 LAND USE

3.8.1 Affected Environment

The following discussion describes the existing land use condition in the vicinity of the Proposed Project site.

3.8.1.1 Regulatory Setting

State

Farmland Mapping and Monitoring Program

The State of California developed the Farmland Mapping and Monitoring Program to provide data to decision makers for use in planning for the present and future of California's agricultural land resources. To meet this goal, the Farmland Mapping and Monitoring Program's objective is to provide maps and statistical data to the public; academia; and local, state, and federal governments to assist them in making informed decisions for the best use of California's farmland. The program classifies lands into seven agriculture-related categories: Prime Farmland, Farmland of Statewide Importance, Unique Farmland, Farmland of Local Importance, Grazing Land, Urban and Built-Up Land, and Other Land.

Williamson Act

The California Land Conservation Act of 1965, commonly known as the Williamson Act, is designed to preserve farmlands and open space lands by discouraging premature and unnecessary conversion to urban uses. Under the provisions of the Williamson Act, landowners contract with the county to maintain agricultural or open space use of their lands in return for a reduced property tax assessment. The contract is self-renewing, and the landowner may notify the county at any time of intent to withdraw the land from its preserve status. Withdrawal involves a 10-year period of tax adjustment to full market value before protected open space can be converted to urban uses. Alternatively, landowners can petition the a county's Board of Supervisors to withdraw prematurely from a Williamson Contract. To cancel a contract without instituting the 10-year tax adjustment period, the Board of Supervisors make the required findings that the cancellation is consistent with the purposes of the Williamson Act, and that cancellation is in the public interest.

Local

Although local land use policies would not apply to lands taken into federal trust, impacts to the community may occur in terms of a federal project's relation to growth and development visions, as described in the following guidance documents.

City of Temecula General Plan

The City of Temecula General Plan is considered a blueprint for development in the City, and provides long-term policy guidance for the community's physical, economic, social, and environmental changes. The City's General Plan consists of 10 elements, including a Land Use Element. The Proposed Project site lies within the City's boundaries, as well as the planning boundaries set forth in the City's General Plan. The City's General Plan designates the northern parcel as Neighborhood Commercial and the southern parcel as Community Commercial (City of Temecula 2005b) (see Figure 3-1, Existing Land Use Designations).

The Community Commercial land use designation allows for retail, professional office, and service-oriented business activities serving the entire community that typically occupy 10 to 50 acres of land and include in excess of 100,000 square feet of floor area. Typical uses include traditional small-scale food markets (usually less than 30,000 square feet), drug stores, clothing stores, sporting goods, offices, hardware stores, childcare centers, other retail and personal service uses, and community facilities. The Neighborhood Commercial designation allows for smaller-scale business activities that generally provide retail or convenience services for local residents in surrounding neighborhoods. Typical uses include traditional small-scale food markets (usually less than 30,000 square feet), drug stores, clothing stores, sporting goods, offices, hardware stores, childcare centers, other retail and personal service uses, and community facilities. Neighborhood commercial centers usually are developed on less than 10 acres of land and range between 25,000 and 75,000 square feet (City of Temecula 2005a).

City of Temecula Zoning Ordinance

One of the primary purposes of the City's Zoning Ordinance is to implement the goals, policies, and programs of the City's General Plan, and to manage future growth and change in accordance with the General Plan. The Zoning Ordinance provides information on the permitted uses in each zone, as well as development standards for each zone. The Proposed Project site is zoned as Specific Plan in the City of Temecula Zoning Map (City of Temecula 2018). Therefore, the Wolf Creek Specific Plan provides development standards for development of the Proposed Project site.

Wolf Creek Specific Plan

The Proposed Project site is within the City's Wolf Creek Specific Plan area, which is slated for development in the City's planning documents. The Specific Plan establishes land uses, zoning standards, and design guidelines to ensure orderly, high quality development of the 557-acre Wolf Creek Specific Plan area. The northern parcel is designated as Neighborhood Commercial in the Wolf Creek Specific Plan, and the southern parcel is designated as Community Commercial (City of Temecula 2000).

3.8.1.2 Environmental Setting

Regional Setting

The Proposed Project site is located within the incorporated boundaries of the City, in Riverside County, California. The City is located in the southwestern portion of Riverside County and is largely developed with residential and commercial uses. The City is bordered by the City of Murrieta to the north, unincorporated Riverside County land to the east and west, and the Tribe Reservation to the south. I-15, SR-79, and Pechanga Parkway currently provide regional access to the Proposed Project site.

Local Land Use and Setting

The approximately 20-acre Proposed Project site is composed of two APNs (961-020-026 and 962-010-007) and is bordered by Wolf Creek Drive Street to the northeast, the Great Oak Trail and undeveloped space to the southwest, and residential uses to the north and southeast. Wolf Valley Road traverses the site from the northeast to southwest, and Pechanga Parkway is located approximately 112 feet southwest of the Proposed Project site (see Figure 2-1).

The southern parcel is currently undeveloped. Similarly, the northern parcel is currently largely undeveloped, aside from a small graded lot that stages construction equipment for nearby development. Existing land uses adjacent to the Proposed Project site include residential uses to the north, northwest, south, and southwest; the Riverside County Fire Station and the Wolf Creek Park to the northeast; and the Pechanga Resort Casino to the southwest. Local access to the Proposed Project site would be provided via Wolf Valley Road and Wolf Creek Drive.

3.8.2 Proposed Project Alternative

As discussed in Section 1, Introduction, the Proposed Project Alternative would result in the approval of the transfer of approximately 20 acres into federal trust status for the Tribe. The Proposed Project Alternative would result in the reasonably foreseeable future development of the Proposed Project site associated with this transfer, which is anticipated to involve approximately 200,000 square feet of commercial uses. Once the federal government acquires the Proposed Project site in trust for the Tribe, the parcels would no longer be subject to City land use regulations but would be under the civil regulatory jurisdiction of the Tribe and the federal government.

Land Use Plans

City planning documents currently in effect for the Proposed Project site include the City's General Plan, Wolf Creek Specific Plan, and the City's Zoning Ordinance. Foreseeable future development of the Proposed Project site associated with the Fee-to-Trust acquisition would result in development of 200,000 square feet of commercial uses at the Proposed Project site. The Proposed Project site is zoned as Specific Plan in the City of Temecula Zoning Map (City of Temecula 2005a). The northern parcel is designated as Neighborhood Commercial in the City's General Plan and the Wolf Creek Specific Plan, and the southern parcel is designated as Community Commercial (City of Temecula 2000, 2005b). Per the City's Municipal Code and General Plan, the Neighborhood Commercial designation allows for smaller-scale business activities, which generally provide retail or convenience services for the local residents in the surrounding neighborhood, and the Community Commercial designation allows for retail, professional office, and service-oriented business activities that serve the entire community (City of Temecula 2005a, 2021a). Per the City's General Plan, the Community Commercial land use designation typically occupies 10 to 50 acres of land and includes in excess of 100,000 square feet of floor area, and Neighborhood commercial centers typically are developed on less than 10 acres of land and range between 25,000 and 75,000 square feet (City of Temecula 2005a).

Consistent with the Specific Plan and the City's Municipal Code, it is anticipated that the Proposed Project Alternative would result in development of approximately 200,000 square feet of leasable area designated for commercial uses, which would include a mix of Community and Neighborhood Residential Commercial uses. Therefore, future development of the Proposed Project Alternative would be consistent with the existing and planned uses of the Proposed Project site. Overall, the Proposed Project Alternative would not result in a significant impact associated with conflicts with local land use plans.

Land Use Compatibility

As discussed above, existing land uses adjacent to the Proposed Project site include residential uses to the north, northwest, south, and southwest; the Riverside County Fire Station and the Wolf Creek Park to the northeast; and the Pechanga Resort Casino to the southwest. The Proposed Project site is planned for development by the City, which the Proposed Project Alternative would be compatible with. The Proposed Project Alternative would not physically disrupt neighboring land uses, prohibit access to neighboring parcels, or otherwise significantly conflict with neighboring land uses. Although the proposed uses within the site are generally compatible with the residential nature of the area and adjacent Pechanga Resort Casino, the increase in intensity of development within the site as a result of the Proposed Project Alternative could result in conflicts with nearby sensitive land uses (including the adjacent single-family homes to the southwest and northwest, and multi-family homes to the east of the Proposed Project site). Potential conflicts may include air quality and noise impacts from construction activities and the increase in traffic (Sections 3.3 and 3.11, respectively), and impacts to biological resources and cultural resources during construction (Sections 3.4 and 3.5), which would result in potential short- and long-term adverse impacts. Implementation of protective measures and BMPs identified in Section 2.2.3, and mitigation measures identified in Section 4.0 would reduce potential adverse impacts to less-than-significant levels. Therefore, the Proposed Project Alternative would not result in significant impacts associated with land use compatibility.

3.8.3 No Action Alternative

Under the No Action Alternative, the site would not be taken into trust and would remain in its current condition. No project-related development would take place on any part of the site in the near term, although it is possible that the land would eventually be developed in accordance with the City General Plan. No land use conflicts would occur under the No Action Alternative. Therefore, the No Action Alternative would not result in adverse impacts related to land use.

3.9 PUBLIC SERVICES AND UTILITIES

3.9.1 Affected Environment

The following discussion describes the existing public services and utilities in the vicinity of the Proposed Project site.

3.9.1.1 Regulatory Setting

Rancho California Water District 2020 Urban Water Management Plan

The 2020 Final Urban Water Management Plan prepared for the RCWD includes RCWD's estimates for water supply and demands through the year 2045. These projections, which are based on historical supply reliability data, include scenarios for average/normal, single-dry, and multiple-dry years (RCWD 2021b).

3.9.1.2 Environmental Setting

Water Supply

The Proposed Project site is located within the service area of the RCWD, an agency that provides water supply services to customers within the Cities of Temecula and Murrieta, and some unincorporated areas of Riverside County.

Water Supply Infrastructure

The RCWD operates 31 potable water pump stations and 48 active potable groundwater production wells, and maintains 39 potable water storage reservoirs with a capacity of 149.7 million gallons. RCWD's potable water system includes 950 miles of water pipelines that convey water from its source to water customers. In addition, the RCWD owns an open surface water reservoir, Vail Lake, with a current storage capacity of 31,395 acre-feet used to help recharge the groundwater basin using natural runoff. The RCWD operates six recycled water pump stations and three active recycled water storage reservoirs, with a combined capacity of 7.5 million gallons, as well as five recycled water storage ponds, with a total storage of 1,496 AFY. The recycled water system includes 58.9 miles of water pipelines and conveys recycled water for irrigation. The recycled water supply is from tertiary facilities at the Santa Rosa Water Reclamation Facility and the seasonal storage ponds constructed adjacent to the

reclamation facility. Recycled water is also received from the Temecula Valley Regional Water Reclamation Facility, under agreement with the Eastern Municipal Water District (EMWD) (RCWD 2021b).

A Water System Plan was prepared as a part of the Specific Plan, which proposed construction of various new water facilities to serve the Specific Plan development, including an 8-inch-diameter water line proposed along Wolf Creek Drive, along the northeastern boundary of the Proposed Project site (City of Temecula 2000). Per RCWD's Water Facilities Master Plan, these water lines have been constructed. In addition to these water lines, existing potable water mains are present along Wolf Valley Road and Pechanga Parkway (RCWD 2015). A recycled water main line is also present along Wolf Valley Road, to the northeast of the site, and along Wolf Creek Drive, to the northwest of the site (RCWD 2021b).

Water Supply Sources and Demand

The RCWD currently obtains its water supplies from the following primary water sources: local groundwater from the Temecula Valley Groundwater Basin, imported State Water Project and Colorado River water from the Metropolitan Water District of Southern California via the EMWD and Western Municipal Water District, and recycled water from the EMWD. Treated imported potable water is received from Metropolitan Water District's storage and filtration facility at Lake Skinner, directly into RCWD's distribution system, through four turnouts (RCWD 2021b).

Wastewater Service

The EMWD provides wastewater treatment to the Proposed Project site (RCWD 2021c). EMWD has four operational regional water reclamation facilities (RWRFs), which have recently completed expansions and have a combined capacity of 86,300 AFY. Inter-connections between the local collection systems serving each treatment plant allow for operational flexibility, improved reliability, and expanded deliveries of recycled water (EMWD 2021a). The Temecula Valley RWRF currently provides wastewater treatment service to the City and the Proposed Project site (EMWD 2021b). The Temecula Valley RWRF has a treatment capacity of 26,900 AFY (EMWD 2021a).

At the time the Specific Plan EIR was adopted, there was no sewer infrastructure within the Specific Plan area. The Tribe was slated to install a new 15-inch-diameter sewer main in Pala Road to serve the new development proposed under the Specific Plan (City of Temecula 2001).

Solid Waste Service

Solid waste services for the City are currently contracted to private companies, including CR&R Incorporated (City of Temecula 2005b; CR&R Incorporated 2021). The City's solid waste is transferred to the El Sobrante and Badlands Landfills, located in unincorporated areas of Riverside County. El Sobrante Landfill is located approximately 31 miles northwest of the Proposed Project site, and the Badlands Landfill is located approximately 34 miles northeast of the Proposed Project site (City of Temecula 2005b). El Sobrante Landfill is permitted to receive up to 400 tons of solid waste per day and, as of May 2016, had an estimated maximum capacity of 6,229,670 cubic yards (CalRecycle 2019a). Badlands Landfill is permitted to receive up to 4,800 tons of solid waste per day and, as of January 2015, had an estimated maximum capacity of 34,400,000 cubic yards (CalRecycle 2019b). Both the El Sobrante and Badlands Landfills are designated as a Class III landfill by the state, and are permitted to receive construction and demolition waste, green materials, and mixed municipal waste, among other waste types (CalRecycle 2019a, 2019b).

Recreation

The Proposed Project site is not currently used for sanctioned recreational purposes. Of the 39 parks managed by the City, nine are within 1 mile of the Proposed Project site. The nearest are Wolf Creek Park, located adjacent to the northern parcel to the east, and Wolf Creek Trail Park, located adjacent to the southern parcel to the east. In addition, Loma Linda Park is located approximately 0.54 miles to the northwest of the Proposed Project site, and Patricia H. Birdsall park is located approximately 0.55 miles to the southwest of the Proposed Project site (City of Temecula 2021f).

Electricity and Natural Gas

SCE provides electrical services to the Proposed Project site and vicinity, and SoCalGas provides natural gas services to the Proposed Project site and vicinity (City of Temecula 2021e).

Southern California Edison

SCE generates, transmits, and distributes electric power to a 50,000-square-mile territory that includes the City, Riverside County, and all or portions of 14 other California counties (SCE 2021a). The closest existing SCE distribution infrastructure to the Proposed Project site is located approximately 1.2 miles north of the site, directly south of SR-79 (SCE 2021b).

Southern California Gas Company

SoCalGas provides natural gas service to approximately 21.8 million consumers in over 500 communities within a 24,000-square-mile service area in Central and Southern California. SoCalGas, the nation's largest natural gas distribution utility, provides natural gas service to customers throughout Riverside County, including the City (SoCalGas 2021).

SoCalGas infrastructure in the vicinity of the Proposed Project site includes one high-pressure distribution line located to the southwest of the Proposed Project site, along Pechanga Avenue, and one transmission line that traverses from the southwest to the northeast, approximately 1.5 miles north of the Proposed Project site (SoCalGas 2021).

Law Enforcement

The Proposed Project site is within the service boundary of the Temecula Police Department. The City contracts with the Riverside County Sheriff's Department, which handles all criminal matters in unincorporated areas and provides incarceration facilities for all offenders (City of Temecula 2021b). More specifically, the Riverside County Sheriff's Department Southwest Station (Southwest Station) currently services the contract with the City and the Proposed Project site (Riverside County Sheriff's Department 2021). In addition to the Southwest Station, there are two substations available to the public for police services at the Promenade Mall and in Old Town. The Temecula Police Department currently employs officers at the rate of approximately one officer per 1,063 residents (City of Temecula 2021b).

The Pechanga Tribal Ranger Department has assisted the Tribe in exercising its Tribal sovereignty by providing public safety services, enforcing Tribal ordinances, protecting Reservation residents, and maintaining a positive relationship with outside law enforcement. The Pechanga Tribal Ranger Department provides law enforcement services for the Reservation, and provides services such as dispatch, background investigations, animal control, fleet, Tribal emergency response, evidence/property, Tribal rangers, traffic enforcement, schools resource officers, court services, and community participation (Pechanga Band of Luiseño Indians 2021d).). Should the Fee-to-Trust be approved, and absent an agreement otherwise, law enforcement of the Proposed Project site would remain largely unchanged with the Temecula Police Department continuing to provide law enforcement to the extent consistent with Public Law 280, as well as patrols by the Pechanga Tribal Ranger Department in its security capacities.

Fire Protection and Emergency Medical Services

The Proposed Project site is located within the service boundaries of the Temecula Fire Department, which is composed of one division chief, two battalion chiefs, and 60 firefighting personnel that serve from five fire stations within the City. Each fire engine of the Temecula Fire Department is staffed with a four-person paramedic assessment engine, which ensures a minimum of one pracademic and three emergency medical technician (EMT)-level personnel at the scene of all emergencies, to provide emergency medical services (City of Temecula 2021c). The closest station to the Proposed Project site is the Temecula Fire Department Station 92, located adjacent to the southern parcel to the northwest, at 32211 Wolf Valley Road (City of Temecula 2021d).

The Pechanga Fire Department provides fire protection services to the Tribe's Reservation. One of the Pechanga Fire Department's two Fire Stations is located at 45421 Pechanga Resort Drive, approximately 0.37 miles southeast of the Proposed Project site. The Pechanga Fire Department's firefighting apparatus consists of a Type I

American La France engine, the American La France 100-foot Tiller Quint, a Type III engine, a Type II engine, and a Type II water tender. The Pechanga Fire Department includes a fire chief, a division chief/fire marshal, three battalion chiefs, six fire captains, six fire apparatus engineers, twelve firefighters, a fire inspector, an emergency services coordinator, and nine fuels management crewmembers. In addition, the Pechanga Fire Department employs twelve full-time firefighter paramedics, which provide emergency medical services to the Reservation (Pechanga Band of Luiseño Indians 2021e; Appendix E, Pechanga Fire Department Letter).

The closest medical facility to the Proposed Project site with a full-service emergency department is the Temecula Valley Hospital, located at 31700 Temecula Parkway, approximately 1.3 miles northeast of the Proposed Project site. The emergency department is open 24 hours a day, and is staffed by a team of physicians, registered nurses, and other specialists (Temecula Valley Hospital 2021).

3.9.2 Proposed Project Alternative

Water Supply

CalEEMod output rates were used to estimate the average daily water usage associated with the Proposed Project Alternative. Based on CalEEMod generation rates, future development anticipated under the Proposed Project Alternative is anticipated to use approximately 14.81 MGY for indoor water use and approximately 9.08 MGY for outdoor use, thus totaling water use of the Proposed Project Alternative to 23.89 MGY or 73.3 AFY (see Appendix A, Air Quality and Greenhouse Gas Analysis). Water that would serve future development under the Proposed Project Alternative would be supplied by the RCWD. The total water demand experience by the RCWD in 2020 (the most recent year for which actual use data are available) was approximately 57,667 AFY; demand is anticipated to increase to 78,193 AFY by 2030 during a normal year and 81,378 AFY by 2030 during a single-dry year (RCWD 2021b). Therefore, the estimated annual water demand of the Proposed Project Alternative represents only 0.1% of RCWD's actual total demand in 2020, and less than 0.1% of RCWD's projected total demand in 2030 during both a normal and single-dry year. Lastly, RCWD has expressed its willingness to serve the Proposed Project site subject to RCWD's processes, rules, and regulations. (Appendices F1 and F2, RCWD Letters).

Per the Specific Plan, development of the Wolf Creek Specific Plan area would require construction of a new on-site water distribution system to serve the proposed uses. A Water System Plan was prepared as a part of the Specific Plan, which proposed construction of various new water facilities to serve the Specific Plan development, including an 8-inch-diameter water line proposed along Wolf Creek Drive, along the northeastern boundary of the Proposed Project site (City of Temecula 2000). Per RCWD's Water Facilities Master Plan, these water lines have been constructed. In addition to these water lines, existing potable water mains are present along Wolf Valley Road and Pechanga Parkway (RCWD 2015). A recycled water main line is also present along Wolf Valley Road, to the northeast of the site, and along Wolf Creek Drive, to the northwest of the site (RCWD 2021b). Although the Proposed Project Alternative would create an additional demand for additional potable water, the Proposed Project Alternative would be consistent with the Specific Plan designation of the site. Therefore, development of the Proposed Project Alternative has been accounted for in local water supply planning documents, and adequate water supply and water supply infrastructure exists to be able to serve the Proposed Project Alternative. Therefore, short- or long-term adverse direct and indirect impacts would not be significant. No mitigation is required.

Wastewater Service

CalEEMod output rates were used to estimate the average daily wastewater usage associated with the Proposed Project Alternative. Based on CalEEMod generation rates, future development anticipated under the Proposed Project Alternative is anticipated to use approximately 14.81 MGY for indoor water use, which equates to 14.81 MGY of wastewater (see Appendix A). As discussed above, wastewater generated by the Proposed Project Alternative would be treated at the Temecula Valley RWRF, which currently has a capacity of 26,900 AFY (EMWD 2021b). Therefore, the estimated annual wastewater treatment demand of the Proposed Project Alternative represents less than 0.1% of Temecula Valley RWRF's current capacity. In addition, although no sewer infrastructure existed within the Specific Plan area at the time the Specific Plan EIR was drafted, a new 15-inch-diameter sewer main in Pala Road was constructed to serve the new development proposed under the Specific Plan (City of Temecula 2001). This 15-inch sewer main would accommodate wastewater treatment

associated with the Proposed Project Alternative. Lastly, Eastern Municipal Water District has expressed its willingness to serve the Proposed Project site (Appendix G, EMWD Letter). Therefore, no significant short- and long-term direct or indirect adverse impacts to wastewater treatment service providers would occur. No mitigation is required.

Solid Waste Service

Future construction of the Proposed Project Alternative would result in a temporary increase in waste generation. The waste stream would consist of excess construction materials, resulting in a short- and long-term direct adverse impact. Waste that cannot be recycled would be disposed of at the El Sobrante and Badlands Landfills.

CalEEMod output rates were used to estimate the average solid waste associated with the Proposed Project Alternative. Solid waste generated during future operations of the Proposed Project Alternative would result in approximately 210 tons, or 56.7 cubic yards, of solid waste per year (0.6 tons per day), which is a negligible amount compared to the existing capacities of the El Sobrante and Badlands Landfills. As described above, solid waste generated by the Proposed Project Alternative would be disposed of at the El Sobrante and Badlands Landfills, which have a joint capacity of 40.6 million cubic yards (CalRecycle 2019a, 2019b). According to CalRecycle, the El Sobrante landfill has 68% capacity remaining, an estimated cease operation date of 2051, and a daily permitted throughput of 16,014 tons. Therefore, capacity at existing landfills would be able to accommodate waste generated by the Proposed Action during future operations and the Proposed Action would not have significant adverse effects on solid waste services. No mitigation is required.

Recreation

Because the Proposed Project Alternative would not result in a substantial increase in population or housing, as discussed in Section 3.6.1, demand for additional recreation facilities would not increase substantially under the Proposed Project Alternative. While the Proposed Project Alternative would be located in close proximity to the existing parks, construction and operation of the Proposed Project Alternative would not impede access to these facilities. Therefore, no significant short- or long-term direct or indirect adverse impacts to recreational facilities would occur.

Electricity and Natural Gas

Under the Proposed Project Alternative, electricity would be obtained from SCE and natural gas would be provided by SoCalGas. The Proposed Project site has been previously slated for development under the Specific Plan. Therefore, development of the Proposed Project Alternative has been accounted for in various City planning documents as well as SCE and SoCalGas projections, and it is not anticipated that implementation of the Proposed Project Alternative alone would require upgrades to SCE's or SoCalGas' existing infrastructure. If needed for future development, payment for electrical service and for any distribution infrastructure upgrades or renovations necessary to provide service to the Proposed Project site would be negotiated through agreements with SCE and SoCalGas. Therefore, no significant short- or long-term direct or indirect adverse impacts to electricity and natural gas would occur.

Law Enforcement

As described in Section 3.9.1, above, the Proposed Project site is within the service boundary of the Temecula Police Department. The City contracts with the Riverside County Sheriff's Department for law enforcement services (City of Temecula 2021b). The Temecula Police Department and the Riverside County Sheriff's Department would continue to provide law enforcement services to the Proposed Project Alternative. In accordance with Public Law 280 (18 USC 1162; 28 USC 1360), when the land is taken into trust, the State of California would exercise concurrent jurisdiction with the Tribe to enforce criminal laws against all individuals on the property, and state criminal prosecutions committed by anyone on the Proposed Project site would continue to be brought in California Courts. It is likely that the Pechanga Ranger Department will also be responsible for patrolling Tribal lands, including the Proposed Project site, in its security capacities.

The Proposed Project Alternative would result in future development of the Proposed Project site, resulting in an increase in demand for law enforcement, which would result in a short- and long-term direct adverse impacts. Future development would result in 200,000 square feet of commercial uses, consistent with the City's zoning and land use designations of the site and the Specific Plan. In addition, the City periodically reviews population figures and revises its contract with the Riverside County Sheriff's Department to maintain the level of police protection services concurrent with anticipated growth (City of Temecula 2001). Future commercial uses associated with Proposed Project Alternative would serve existing residents and would not introduce a substantial increase in residents to the area. Therefore, because the Temecula Police Department and the Riverside County Sheriff's Department currently provide law enforcement services to the Proposed Project site, and because the Proposed Project Alternative is consistent with development anticipated under the Specific Plan, it is not anticipated that these existing law enforcement agencies would require additional facilities to continue to provide services subsequent to the development of the Proposed Project Alternative. Therefore, no significant impacts to law enforcement would occur.

Fire Protection and Emergency Medical Services

Equipment and vehicles used during construction activities may create sparks, which could ignite vegetation on the Proposed Project site result in a short-term direct adverse impact. The use of power tools and acetylene torches may also increase the risk of fire during construction. BMPs listed in Section 2.2.3 would ensure that construction of the Proposed Project Alternative would not create a substantial fire hazard. Structural fire protection would be provided through voluntary compliance with International Fire Code requirements, as adopted under the Tribal Building and Safety Code for commercial structures, including requirements for fire flow, sprinkler systems, and fire extinguishers. Therefore, with implementation of existing regulations and BMPs, no significant impacts to fire protection and emergency medical services would occur during construction.

Although the Tribe has mutual aid agreements with the County of Riverside for public services, such as fire protection, the Pechanga Fire Department would largely be expected to address any emergency issues, primarily due to Pechanga Fire Department's close proximity to the Proposed Project site. The Proposed Project Alternative would introduce approximately 299 employees to the Proposed Project site (125 employees during construction and 174 employees during operations), resulting in an increase in demand for fire protection and emergency medical services, which would result in a short- and long-term direct adverse impacts. The Proposed Project site has been previously slated for development under the Specific Plan and would be consistent with the land use designations and zoning of the site. Therefore, development of the Proposed Project Alternative has been accounted for in various City planning documents, as well as projections for fire protection and emergency medical service needs. Therefore, due to the minimal increase in demand for fire protection and emergency medical services, and because the Proposed Project Alternative would be consistent with the zoning and land use designations of the site, is not anticipated to trigger the need to construct new facilities. In addition, the Pechanga Fire Department has confirmed that it has the capacity to serve the Proposed Project site, as well as any commercial development that takes place on the site, and would not be adversely affected by the addition to its service area (Appendix E). Therefore, no significant impacts to fire protection and emergency medical services would occur.

3.9.3 No Action Alternative

Under the No Action Alternative, the site would not be taken into trust, and no development would occur. No additional public services would be extended to the site. Therefore, no increase in demand for any public services would occur under the No Action Alternative.

3.10 VISUAL RESOURCES

3.10.1 Affected Environment

The following discussion describes the existing visual resources in the vicinity of the Proposed Project site.

3.10.1.1 Regulatory Setting

Development of the Proposed Project site is currently guided by the City's General Plan and Municipal Code. The visual resources regulatory setting is described in detail below.

Local

City of Temecula General Plan

Development of the Proposed Project site is currently guided by the City's General Plan (City of Temecula 2005b). Components of the City's General Plan, relevant to the topic of aesthetics are included below.

Community Design Element

This element includes the following goals and policies related to visual resources:

Policy 1.3: Develop design standards to enhance the visual character of commercial centers located adjacent to I-15.

Policy 1.5: Maintain and incorporate natural amenities such as: rock outcroppings, indigenous vegetation, streams and watercourses within proposed development projects.

Policy 2.1: Establish and consistently apply design standards and guidelines for both residential and non-residential development.

Policy 2.5: Limit light and glare pollution through design standards for outdoor lighting, the use of low intensity lights, and lighting that supports the continued use of the Mt. Palomar Observatory.

Policy 2.6: Enhance the visual identity of commercial districts.

Policy 3.2: Preserve the scale and character of residential development by creating appropriate transitions between lower density and rural areas, and higher density development.

Goal 5: Protection of public views of significant natural features.

Policy 5.1: Work with the County of Riverside to protect surrounding hillside areas from inappropriate grading and development that affects the visual backdrop of the valley.

Policy 5.6: Promote and implement underground utilities (cable, power, etc.) where feasible.

City of Temecula Municipal Code

The City's Municipal Code provides the following requirements regarding lighting (City of Temecula 2021a).

17.08.070 Commercial/Office/Industrial Performance Standards

- C. Commercial Development Performance Standards
  - 3. Site Planning and Design.
    - a. Pedestrian amenities in commercial developments should be provided to enhance the opportunities for pedestrian circulation and social activities. Strategies to achieve this high degree of pedestrian orientation and activity include, but are not limited to, the following:
      - iii. Provide pedestrian plazas and sidewalks of sufficient width adjacent to buildings along with amenities such as special lighting, interesting paving materials, landscaping benches and other street furniture.

17.22.232 Architectural Design Guidelines

H. Lighting.

1. Lighting shall be consistent with the Mount Palomar lighting ordinance. The lighting should not be so intense that it calls attention to the project site. Timers and sensors shall be used to avoid unnecessary lighting.

2. Lighting should be low-voltage/high efficiency whenever possible.

3. Flashing, moving, high intensity or exposed light source type luminaries are not permitted.

4. Exterior lighting design shall address the issue of security. Parking areas, walkways, and building entrances should be well lit for security and safety.

5. Exterior lighting should have a variation of fixtures and illumination levels to define the organization of streets, walkways, and community facilities.

6. Neon and similar types of lighting are prohibited per Mount Palomar lighting ordinance.

7. Pedestrian light poles along sidewalks or pathways shall be between twelve and fifteen feet high.

8. Fixtures will be selected that compliment the architectural styles.

Wolf Creek Specific Plan

The Proposed Project site is located within the Wolf Creek Specific Plan area, which provides design guidelines for the Specific Plan area, including the Proposed Project site (referred to as the Village Center in the Specific Plan). Per the Specific Plan, development within the Proposed Project site would comply with the following design standards (City of Temecula 2001).

3. Building Scale and Design

a. Architectural design throughout the Village Center shall be restricted to compatible styles. This guideline shall not be interpreted to restrict architectural design to solely one architectural style, as such uniformity often creates a dull or prefabricated ambience. Instead, styles that are similar in massing, rooflines, fenestration, details, and materials shall be allowed subject to the Planning Director's approval.

b. Building scale shall relate to surrounding structures, i.e. no building shall exceed the scale of the adjacent planning area buildings by more than a two-to-one ratio, unless such building or structure is designed as a landmark facility (i.e. monumentation).

d. Building materials shall be consistent throughout the Village Center. A variety of building materials that exhibit similar qualities will be allowed subject to the Planning Director's approval. This guideline does not limit the buildings in the Village Center to solely one building material or type. Instead, it is intended to encourage a rick variety of compatible building materials displaying similar texture, tone, materials, or style.

e. Commercial buildings may incorporate second and third story mixed-uses, i.e. residential or office facilities maybe located above any commercial use When mixed uses are combined within a single structure the intensity of use shall decrease as the floors of the structure increase.

g. The landscape area provided shall be in scale with the mass of the building s Parking areas shall be fully screened from the street.

6. Village Center Commercial

The Wolf Creek Village Center area shall incorporate the following Site Planning concepts to ensure that the planning and design of the Village works towards creating a sense of place.

b. Building Siting, including clustering articulation of massing a system of roofs screening and setbacks.
   1. Commercial residential and public buildings within the Village Center shall maintain the street edge This means buildings shall be clustered and sited at or near the street.

3.10.1.2 Environmental Setting

Aesthetics

A viewshed is the geographical area that is visible from at least one location, referred to as a viewpoint. Each viewpoint provides a line of sight of the viewshed. The visual experience of an object within a viewshed is composed of the overall visibility of the object within the viewshed, the amount of time the object is exposed to

viewers within the viewshed, the distance of the viewer from the object, and the number of viewers anticipated to experience the viewshed.

There is no comprehensive list of specific features that automatically qualify as scenic resources; however, certain characteristics can be identified that contribute to the determination of a scenic resource. The following is a partial list of visual qualities and conditions that if present, may indicate the presence of a scenic resource:

- A tree that displays outstanding features of form or age
- A landmark tree or a group of distinctive trees accented in a setting as a focus of attention
- An unusual planting that has historical value
- A unique, massive rock formation
- A historic building that is a rare example of its period, style, or design, or that has special architectural features and details of importance
- A feature specifically identified in applicable planning documents as having a special scenic value
- A unique focus or a feature integrated with its surroundings or overlapping other scenic elements to form a panorama
- A vegetative or structural feature that has local, regional, or statewide importance

Proposed Project Site

The Proposed Project site is within the southern area of the City. Topography is relatively flat and slopes from approximately 1,064 feet AMSL to the north to approximately 1,086 feet AMSL to the south, resulting in an approximately 23-foot difference in elevation from the northwest corner to the southeast corner. The topography surrounding the Proposed Project site is also generally flat, with mountainous terrain located approximately 0.5 miles to the southwest and 1.4 miles to the southeast of the Proposed Project site. One existing graded area, developed with fencing and a temporary structure, is currently present in the southern portion of the northern parcel. This area is currently used for staging for nearby development. The Proposed Project site is surrounded by development on all sides. The nearest residences to the Proposed Project site include single-family homes located to the northwest, southeast, and east of the site. Additional development adjacent to the Proposed Project site includes the Wolf Creek Park, adjacent to the northeast, and the Riverside County Fire Station, adjacent to the east. Located approximately 200 feet to the southwest of the site, across Pechanga Parkway, is the existing Pechanga Resort Casino and additional single-family residences.

Scenic Highways

There are no state designated scenic highways or roads adjacent to or near the vicinity of the City; however, I-15, located approximately 1.5 miles west of the Proposed Project site, is considered an eligible State Scenic Highway (Caltrans 2021).

Scenic Resources

The City's General Plan identifies topographical features, such as the western escarpment and southern ridgelines, hillsides in the northern area, natural drainage courses, and environmental resources of the Santa Margarita River as scenic resources, that should be protected from insensitive development and activities. Public views to these areas should be maintained to the extent possible (City of Temecula 2005b). The Proposed Project site is located in a highly developed area and surrounded by development. No scenic resources are located in the vicinity of the Proposed Project site.

Lighting and Shadow

The Proposed Project site is currently undeveloped. One existing graded area, developed with fencing and a temporary structure, is currently present in the southern portion of the northern parcel. This area is currently used for staging for nearby development, and may result in existing minimal levels of lighting from construction equipment. No significant sources of lighting, shadow, or glare are currently present on the Proposed Project site. Sources of nighttime lighting and glare in the vicinity of the site include street lights and adjacent residential and commercial development, as well as the existing Riverside County Fire Station and Wolf Creek Park.

3.10.2 Proposed Project Alternative

Aesthetics

Although no development is proposed at the Proposed Project site at this time, it is anticipated that implementation of the Proposed Project Alternative would result in future development of the Proposed Project site. Future development could result in 200,000 square feet of commercial uses, resulting in a long-term direct adverse impact to aesthetics. However, as stated in Section 2.2.2 above, although not required, the Tribe will design the commercial development to be functionally consistent with the City's lighting and architectural design guidelines as identified in the City's Community Design Element and the Wolf Creek Specific Plan. Therefore, the Proposed Project Alternative would be consistent with the City's zoning and land use designations of the site, and the Specific Plan. The nearest residential development to the Proposed Project site are the residences northwest and southeast of the Proposed Project site. However, as discussed in Section 3.10.1.1, above, the Specific Plan provides standards for development of the Proposed Project site, which would ensure that future development of the Proposed Project Alternative would not significantly exceed the bulk and scale of surrounding development. In addition, the Proposed Project Alternative would be visible from nearby roadways, including Pechanga Parkway and Wolf Creek Drive. However, because the Proposed Project site is located in a highly developed area, is surrounded by development on all sides, and would comply with the Specific Plan standards for development, the Proposed Project Alternative would be consistent with the surrounding area. Lastly, the proposed development would not block views of scenic resources or from scenic highways in the vicinity of the Proposed Project site, as none are present nearby (Caltrans 2021; City of Temecula 2005b). Therefore, the Proposed Project Alternative's impacts to aesthetics would not be significant.

Lighting

The Proposed Project Alternative would introduce new sources of light to the Proposed Project site during construction and operations for aesthetic and security purposes, resulting in a short- and long-term direct adverse impacts to lighting. However, proposed lighting would be similar to the sources of light from nearby development. This lighting associated with the Proposed Project Alternative would constitute an increase over the existing ambient light levels on the Proposed Project site; however, as stated in Section 2.2.2 above, lighting proposed on site would meet the City's lighting requirements and the Wolf Creek Specific Plan. Therefore, no significant adverse impacts associated with lighting would occur.

3.10.3 No Action Alternative

Under the No Action Alternative, the site would not be taken into trust, and no development would occur. The site would remain in its current state. Therefore, the No Action Alternative would have no impact related to visual resources.

3.11 NOISE

3.11.1 Affected Environment

The following discussion describes the existing noise environment in the vicinity of the Proposed Project site.

3.11.1.1 Regulatory Setting

Local

City of Temecula General Plan

The City of Temecula's General Plan Noise Element has the following exterior building noise standards: 65 A-weighted decibels (dBA) community noise equivalent level (CNEL) for low- and medium-density single-family residences; 70 dBA CNEL for high-density and multi-family residences; 70 dBA CNEL for commercial and office uses; 65 dBA CNEL for schools and open space where quiet is a required basis for the land use; and 70 dBA CNEL for institutional land uses other than schools (City of Temecula 2005b).

3.11.1.2 Environmental Setting

Existing traffic is the primary source of ambient noise at the Proposed Project site. Noise-sensitive land uses in the vicinity include single-family residences, a school, and a park. No existing sources of groundborne vibration (aside from vehicular traffic, which produces relatively low levels) are located in the vicinity.

3.11.2 Proposed Project Alternative

Although no development is proposed at the Proposed Project site at this time, it is anticipated that implementation of the Proposed Project Alternative would result in future development of the Proposed Project site. Future development would result in 200,000 square feet of commercial uses, consistent with the City's zoning and land use designations of the site, and the Specific Plan.

Construction Noise

Construction noise could result in short-term direct adverse impacts to existing nearby residences. The Specific Plan established that noise from construction activities, while relatively high at times, would generally occur within the allowable hours for construction set forth in the City's Noise Ordinance (Section 8.32 of the Temecula Municipal Code). As stated in Section 2.2.2 above, although it would not be required, the Tribe would voluntarily follow the City's Noise Ordinance for allowable hours for construction activities to reduce potential noise and vibration impacts. Because the Proposed Project Alternative would be consistent with the uses anticipated in the Specific Plan and would voluntarily follow the municipal noise ordinance, noise during construction would not be significant.

Construction Vibration

Construction activities that might expose persons to excessive groundborne vibration or groundborne noise could cause a short-term adverse impact. Groundborne vibration information related to construction activities (including demolition) has been collected by the California Department of Transportation (Caltrans) (Caltrans 2020). Information from Caltrans indicates that continuous vibrations with a peak particle velocity of approximately 0.1 inches per second begin to annoy people. The heavier pieces of construction equipment used for a project of this type, such as bulldozers, would have peak particle velocities of approximately 0.089 inches per second or less at a distance of 25 feet (DOT 2018). Groundborne vibration is typically attenuated over short distances. At the distance from the nearest vibration-sensitive receivers (residences located to the northwest and southeast) to where construction activity would typically be occurring (i.e., at the approximate centers of the northern parcel and the southern parcel, approximately 300 feet and 400 feet, respectively), and with the anticipated construction equipment, the peak particle velocity vibration level would be approximately 0.0021 inches per second for receivers to the northwest, and approximately 0.0014 inches per second for receivers to the southeast. For relatively brief periods of time, construction could occur relatively near to existing residences to the northwest and southeast, depending on the ultimate site design. At a distance of 22 feet, the vibration threshold of potential annoyance of 0.1 inches per second would be exceeded, resulting in annoyance; however, similarly to noise from construction, such instances would be relatively short term and would occur only during daytime hours. As stated in Section 2.2.2 above, the Tribe would voluntarily limit construction times during allowable hours of the day to meet the City Noise Ordinance; therefore, vibrations from construction would be consistent with City standards.

The major concern with regards to construction vibration is related to building damage, which typically occurs at vibration levels of 0.5 inches per second or greater for buildings of reinforced concrete, steel, or timber construction. As discussed above, typical vibration levels associated with construction would be approximately 0.0021 inches per second or less, which is well below the threshold of 0.5 inches per second for building damage. Therefore, impacts associated with vibration-produced damage would not be significant.

Operational Noise

Noise associated with operation of the Proposed Project Alternative would include off-site traffic noise generated by vehicle trips, as well as on-site noise from mechanical equipment (generally consisting of heating, ventilation, and air conditioning [HVAC] equipment), loading activities, and parking lot noise.

Traffic Noise

Traffic noise impacts were assessed as part of the noise analysis for the Specific Plan (City of Temecula 2000). It was determined that traffic noise would result in potentially significant adverse long-term direct impacts. As a result, mitigation measures were set forth, including the requirement that affected residential planning areas adjacent to Pala Road (now Pechanga Parkway) and Wolf Valley Road would require detailed noise assessments and noise reduction measures, as needed. Additionally, developers are required to participate in noise mitigation established by the City and to pay a fair share for mitigation associated with noise impacts associated with Wolf Creek traffic. These mitigation measures have presumably been implemented at residential planning areas that have been developed since the adoption of the Specific Plan or will be implemented in future residential developments. With implementation of these mitigation measures, noise impacts from traffic to sensitive receivers would be less than significant.

Specifically regarding the Proposed Project Alternative, a separate Transportation Consistency Analysis was prepared (Appendix C). It was determined by the Transportation Consistency Analysis that the Proposed Project Alternative would generate approximately 6,266 net new daily trips, which is slightly less than the number of daily trips assigned to the roadway network per the General Plan Year 2035 model plot. Thus, the traffic volumes from the Proposed Project Alternative are consistent with the results included in the Traffic Impacts Analysis for the Pechanga Resort Hotel Expansion as well as the General Plan Year 2035 conditions for the area (see Appendix C). Because the Proposed Project Alternative would not generate any additional traffic beyond what was estimated in previous analyses, the off-site traffic noise associated with the Proposed Project Alternative would similarly be consistent with the findings of the Specific Plan. Therefore, short- and long-term direct and indirect traffic noise impacts associated with the Proposed Project Alternative would not be significant.

On-Site Noise

Noise generated by HVAC equipment or other mechanical equipment, as well as from noise associated with the parking and loading activities, has the potential to exceed City noise standards and result in nuisance at nearby noise-sensitive uses (adjacent residences, the nearby park, and school), resulting in potential long-term direct adverse impacts. However, as stated in Section 2.2 above, the Tribe would voluntarily comply with City noise regulations, consistent with the Specific Plan. Thus, noise impacts would be not be significant.

Operational Vibration

During operation, no major sources of groundborne vibration are anticipated. Mechanical equipment, such as from HVAC equipment, typically generates relatively low levels of vibration, and vibration from sources such as heavy truck deliveries is typically low because trucks have flexible suspension systems and rubber tires, and speeds within the Proposed Project site are low. Thus, long-term direct and indirect groundborne vibration impacts during operation would not be significant.

3.11.3 No Action Alternative

Under the No Action Alternative, the site would not be taken into trust and would remain in its current condition. No development would take place on any part of the site in the near term, although it is possible the land would be eventually developed in accordance with the City General Plan and the Specific Plan. Therefore, the No Action Alternative would not result in adverse impacts related to noise.

3.12 HAZARDOUS MATERIALS

3.12.1 Affected Environment

The following discussion describes the existing hazards environment in the vicinity of the Proposed Project site.

3.12.1.1 Regulatory Setting

Federal

At the federal level, human exposure to chemical agents, and in some cases environmental and wildlife exposure to such agents, is regulated primarily by four agencies: USEPA, the Food and Drug Administration, the Occupational Safety and Health Administration (OSHA), and the Consumer Product Safety Commission. USEPA administers several Congressional statutes pertaining to human health and the environment, including the Clean Air Act, which regulates hazardous air pollutants, and the Resource Conservation and Recovery Act (codified in 42 USC Section 6901 et seq.), which regulates land disposal of hazardous materials, defined as substances that display one or more of the following characteristics: corrosivity, flammability, reactivity, or toxicity (40 CFR Section 261). The Consumer Product Safety Commission plays a limited role in regulating hazardous substances; it deals primarily with the labeling of consumer products. The Food and Drug Administration also plays a limited role in regulating hazardous substances; it primarily regulates food additives and contaminants, human drugs, medical devices, and cosmetics. OSHA regulations (codified in 29 CFR Parts 70–71, 2200–2205, 2400, and 1910) require facilities to document the potential risk associated with the storage, use, and handling of toxic and flammable substances. In addition to these regulatory agencies, the U.S. Department of Transportation regulates the interstate transport of hazardous materials. The Comprehensive Environmental Response, Compensation, and Liability Act of 1980 provides a Federal Superfund to clean up uncontrolled or abandoned hazardous waste sites, as well as accidental releases of pollutants and contaminants into the environment. USEPA has the power to seek out responsible parties and gain their cooperation in the cleanup. USEPA takes responsibility for hazardous sites when the responsible party cannot be identified or fails to act.

The Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) addresses the sale, distribution, and labeling of pesticides, as well as the certification and training of pesticide applicators. The FIFRA also establishes recordkeeping and reporting requirements on certified applicators of restricted-use pesticides, as well as imposing storage, disposal, and transportation requirements on registrants, and applicants for registration, of pesticides. Pesticide use is regulated through requirements to apply pesticides in a manner consistent with the label. The labeling requirement includes directions for use, warnings, and cautions, along with the uses for which the pesticide is registered (i.e., pests and appropriate applications). Labeling requirements also include specific conditions for the application, mixture, storage, and time period for re-entry to fields following pesticide application, and when crops may be harvested after applications. If a pesticide is used in a manner contrary to its labeling, the use constitutes a violation of the FIFRA.

State

“Hazardous material” is defined in CCR, Title 22, Division 4.5, Chapter 10, Article 2, Section 66260.10, as “[Any] material that, because of its quantity, concentration, or physical or chemical characteristics, poses a significant present or potential hazard to human health and safety or to the environment if released into the workplace or the environment. ‘Hazardous materials’ include, but are not limited to, hazardous substances, hazardous waste, and any material that a handler or the administering agency has a reasonable basis for believing that it would be injurious to the health and safety of persons or harmful to the environment if released into the workplace or the environment.”

3.12.1.2 Environmental Setting

2016 Phase I Environmental Site Assessment

Hazardous materials are products or substances that, due to their characteristics or concentrations, could adversely impact public safety or environmental health. A site visit to the Proposed Project site (i.e., “subject property”) was conducted in August 2016. Although no buildings or ancillary structures were identified on site, a tractor and small amounts of debris were observed in the northwestern part of the site, and a drainage inlet was noted in the southeast area.

A Phase I Environmental Site Assessment (ESA) for the subject property was conducted by Marc Boogay, Consulting Engineer (“Environmental Professional” per American Society for Testing and Materials [ASTM]

specification), in August 2016 in accordance with ASTM Practice E 1527-3 ESAs, and included as Appendix D of this EA. The purpose of the Phase I ESA was to identify any environmental conditions or hazards present on the subject property that could adversely impact human health or the environment as a result of the Proposed Project Alternative. Because the subject property is vacant land, no recognized environmental conditions, historical recognized environmental conditions, or controlled recognized environmental conditions were observed on site. However, the Phase I ESA identified a recognized environmental concern for soil conditions on the subject property due to historical agricultural uses and illegal soil dumping. Very small amounts of debris, such as mixed rubble, brick, cement, asphalt, concrete, pipe, sand, lumber, and steel scrap, were observed on the subject property. No transformers were identified on site, and transformers located adjacent to the subject property appeared to be in good condition and did not show signs of leaking. No signs warning of polychlorinated biphenyls were observed on the transformers. A review of environmental and historical records obtained from Environmental Data Resources Inc. supported observations that there are no aboveground storage tanks or underground storage tanks on the subject property (Appendix D).

3.12.2 Proposed Project Alternative

Adverse impacts to human health or the environment from the release or storage of hazardous materials would primarily occur during the construction phase. Incidents related to the release of hazardous materials that could potentially occur include the incidental release of fuels, oils, and grease from construction equipment, as well as the accidental release of hazardous-material-containing substances during their transport. Adoption of construction BMPs, such as diesel emissions reduction strategies outlined by USEPA, reduce the chance for accidental release of hazardous materials. Stormwater management BMPs, in accordance with a SWPPP for the site, would also be implemented to prevent or reduce stormwater contamination, control sedimentation and erosion, and comply with the requirements of the CWA in the event of a storm. Although hazardous materials were not identified on site during the Phase I ESA (Appendix D), adoption of construction and stormwater BMPs is necessary to minimize or eliminate adverse impacts from potentially undiscovered hazardous substances.

Small quantities of hazardous materials would be present on the subject property during the operational phase of the Proposed Project Alternative. Hazardous materials could include cleaning chemicals, solvents, pesticides, herbicides, fuels, and paints related to ongoing maintenance at the site. Small quantities of these hazardous materials are commonly observed on most commercial properties and would not pose a threat to public health or the environment. Therefore, with proper handling and storage of hazardous materials, implementation of the Proposed Project Alternative would not result in significant adverse impacts.

3.12.3 No Action Alternative

Under the No Action Alternative, the subject property would not be taken into trust by the Pechanga Band of Luiseño Indians, and development would not occur in the near-term. As a result, no adverse impacts resulting from the generation, use, handling, or storage of hazardous materials would occur on the subject property from this alternative.

3.13 CUMULATIVE IMPACTS AND INDIRECT EFFECTS

3.13.1 Cumulative Setting

Cumulative impacts are defined by the CEQ as effects "on the environment which result from the incremental effect of the action when added to other past, present, and reasonably foreseeable future actions" (40 CFR Section 1508.7). The City's website was reviewed to identify future projects that may overlap with the Proposed Action. General urban development, including housing projects, flood control structures, and various specific plans, is anticipated to continue within the City of Temecula. However, none of these projects are located in the vicinity of the Proposed Project site. The Tribe was also contacted to identify potential future projects. The Tribe is also proposing some general development within the Tribe's Reservation. More specifically, the Tribe is currently in the application process for an additional development project, the Northern Boundary Application, located approximately 2.3 miles northeast of the Proposed Project site. Therefore, no reasonably foreseeable future actions would directly overlap with the Proposed Project Alternative.

3.13.2 Cumulative Impacts

As discussed throughout Chapter 3, with implementation of the BMPs listed in Section 2.2.3 and the mitigation measures in Chapter 4.0, the Proposed Project Alternative would not result in significant short- or long-term direct adverse environmental impacts. General development would result in an increase in traffic and air quality impacts. However, when combined with the minimal impacts associated with the Proposed Project Alternative, impacts would not constitute significant adverse cumulative effect. In addition, it is anticipated that any future actions would implement similar BMPs or mitigation measures to reduce potentially significant impacts associated with air quality, land and water resources, biological resources, cultural resources, noise, transportation, and public services and utilities. Cumulative effects from continued urban development would not be considered significant due to the Proposed Project Alternative being an infill project that would comply and be consistent with existing zoning and land uses, and would have beneficial impacts to the local and Tribal economies.

3.13.3 No Action Alternative

Under the No Action Alternative, it is reasonably foreseeable that under future conditions, the site would be developed consistent with the current land uses and zoning designations for the properties. Therefore, under cumulative conditions, the No Action Alternative would likely result in similar cumulative effects as those described above for the development alternatives.

3.13.4 Indirect Effects

According to CEQ regulations, indirect effects are removed in time or in distance from a project, but are caused by the project and are reasonably foreseeable. These include growth-inducing effects, as well as changes in land use, population density, and related effects on natural systems (40 CFR Section 1508.8).

Growth-Inducing Effects

Although the Proposed Project Alternative is considered an anchor for downtown development within the City, construction and operation would not in itself induce growth. The number of new employees requiring new facilities (including housing and schools) would not be significant (refer to Section 3.9, Public Services and Utilities); as such, no new housing, schools, or other facilities would be constructed as a result of development on the Proposed Project Alternative.

The Proposed Project Alternative's contribution to the planned development of the City has the potential to induce economic growth within the City. This output would be generated from direct, indirect, and induced economic activity. Indirect and induced output could stimulate further commercial growth; however, such demand would be diffused and distributed among a variety of different sectors and businesses in the City. As such, significant regional commercial growth-inducing impacts would not be anticipated to occur under the Proposed Project Alternative. Furthermore, if the Proposed Project Alternative were not approved, similar levels of economic growth in the area would still be likely to occur in the future. Development throughout the City is subject to the City General Plan policies and environmental review requirements pursuant to the California Environmental Quality Act. Therefore, no significant adverse growth-inducing effects relevant to any environmental issue area would occur.

SECTION 4.0

MITIGATION MEASURES

NEPA requires that, if a project would have significant adverse effects on the environment, mitigation for those impacts must be identified. Mitigation consists of the following (40 CFR 1508.20):

a. Avoiding the impact altogether by not taking a certain action or parts of an action.
b. Minimizing impacts by limiting the degree or magnitude of the action and its implementation.
c. Rectifying the impact by repairing, rehabilitating, or restoring the affected environment.
d. Reducing or eliminating the impact over time by preservation and maintenance operations during the life of the action.
e. Compensating for the impact by replacing or providing substitute resources or environments.

Mitigation measures to be implemented during construction and operation of the Proposed Project Alternative are summarized in Table 4-1. All mitigation is enforceable because it is inherent to the project design and/or required through provisions of federal or state statute.

Table 4-1
Proposed Mitigation Measures for the Proposed Project Alternative

Resource Area	Proposed Mitigation
Biological Resources	**MM-BIO-1**: Pre-construction surveys for burrowing owl (*Athene cunicularia*) shall be completed within areas of suitable habitat (i.e., flatter portions of the site) in accordance with the Staff Report on Burrowing Owl Mitigation, published by the California Department of Fish and Wildlife (2012), with the first survey conducted between 30 days and 14 days prior to initiation of project-related activities, and the second within 24 hours of project-related activities. If an active burrowing owl burrow is detected within 500 feet of the impact footprint, avoidance and minimization measures shall be implemented in accordance with the Staff Report on Burrowing Owl Mitigation guidelines or agreed upon by the California Department of Fish and Wildlife, including implementation of a non-disturbance buffer and monitoring of the burrow to ensure activities are not adversely affecting the burrow. If activities will occur within this zone, then work must occur outside of the nesting season, or until it can be shown that the birds have finished nesting, at which point passive relocation may occur.
	MM-BIO-2: Vegetation removal shall be conducted during the non-nesting season for migratory birds to avoid direct impacts. A qualified biologist shall conduct a pre-construction nesting bird survey within 3 days prior to vegetation- or ground-disturbing activities if such activities are proposed during the nesting season (February 1 through September 15). The survey shall include 100% coverage of the Proposed Project site. If no active avian nests are found during the survey, no further work in this regard is required. If an active avian nest is discovered during the survey, they shall be flagged and a 200-foot buffer shall be fenced around the nest. A biological monitor shall visit the site once a week during ground-disturbing activities to ensure that all fencing is in place and no sensitive species are being impacted. If such activities are delayed or suspended for more than 7 days after the survey, the site shall be resurveyed. Should eggs or fledglings be discovered in any nest, these resources shall not be disturbed until the young have hatched and fledged (matured to a stage that they can leave the nest on their own). Once the qualified biologist has determined that young birds have successfully fledged or the nest has otherwise become inactive, a monitoring report shall be prepared and submitted to the Pechanga Band of Luiseño Indians (Tribe) for review and approval prior to reinitiating vegetation- and/or ground-disturbing activities within the buffer area. The monitoring report shall summarize the results of the nest monitoring, described construction restrictions currently in place, and confirm that construction activities can proceed within the buffer area without jeopardizing the survival of the young birds. This measure shall be implemented to the satisfaction of the Tribe.

Table 4-1
Proposed Mitigation Measures for the Proposed Project Alternative

Resource Area	Proposed Mitigation
Cultural Resources	**MM-CUL-1**: A Pechanga Tribal Monitor(s) and an archaeologist from the Pechanga Tribal Historic Preservation Office shall monitor ground-disturbing activities associated with any future development project(s). The Tribal Monitor and archaeologist shall have authority to stop and redirect grading in the immediate area of a find to evaluate the find and determine the appropriate next steps. The evaluation shall include culturally appropriate temporary and permanent treatment, which may include avoidance of cultural and archeological finds; in-place preservation; or re-burial on the property in an area not subject to future disturbance for preservation in perpetuity with agreement of the landowner.
	MM-CUL-2: In the event that Native American cultural resources are discovered during ground-disturbing activities, all work within 50 feet of the find(s) shall cease and the Tribal Historic Preservation Officer and a qualified archaeologist from the Pechanga Cultural Resources Department shall be immediately contacted to assess the find(s). Work outside the immediate vicinity of the find may continue during this assessment period.
	MM-CUL-3: If human remains are encountered during ground-disturbing activities, the Native American Graves Protection and Repatriation Act (NAGPRA) shall apply. All work within 50 feet of the find(s) shall cease and all reasonable efforts shall be made to protect the human remains and any other cultural items from further impact. The responsible Tribal official must be notified immediately and the applicable provisions of NAGPRA shall be followed.
Paleontological Resources	**MM-PAL-1**: Prior to commencement of any grading activity in areas of moderate to high paleontological sensitivity, the applicant shall retain a qualified paleontologist per the Society of Vertebrate Paleontology (SVP) (2010) guidelines. The paleontologist shall prepare a Paleontological Resources Impact Mitigation Program (PRIMP) for the Proposed Project. The PRIMP shall be consistent with the SVP (2010) guidelines and shall outline requirements for pre-construction meeting attendance and worker environmental awareness training; where monitoring is required based on construction plans and/or geotechnical reports; procedures for adequate paleontological monitoring and discoveries treatment; and paleontological methods, including sediment sampling for microvertebrate fossils, reporting, and collections management. The qualified paleontologist shall attend the pre-construction meeting and a paleontological monitor shall be on site during rough grading and other significant ground-disturbing activities in areas of previously undisturbed, moderate and/or high paleontological sensitivity. In the event that paleontological resources (e.g., fossils) are unearthed during grading, the paleontological monitor shall temporarily halt and/or divert grading activity to allow for recovery of paleontological resources. The area of discovery shall be roped off with a 50-foot-radius buffer. Once documentation and collection of the find are completed, the monitor may remove the rope and allow grading to recommence in the area of the find.

SECTION 5.0

CONSULTATION AND COORDINATION

Agencies, Organizations, and Individuals Consulted

California Department of Conservation

Summary of Consultation and Coordination:

The Department of Conservation was consulted for their Preliminary Geologic Map of the Murrieta 7.5-Minute Quadrangle, Riverside County, California; Earthquake Zones of Required Investigation; Quaternary Surficial Geology of Southern California; 2018 Data Viewer; The Alquist-Priolo Earthquake Fault Zoning Act; and Seismic Hazards Mapping Act.

California Department of Fish and Wildlife

Summary of Consultation and Coordination:

CDFW was consulted for a List of Vegetation Alliances and Associations.

California Department of Resources Recycling and Recovery

Summary of Consultation and Coordination:

CalRecycle was consulted for information on El Sobrante Landfill and Badlands Sanitary Landfill.

California Department of Transportation

Summary of Consultation and Coordination:

Caltrans was consulted for its California State Scenic Highway System Map.

California Department of Water Resources

Summary of Consultation and Coordination:

The Department of Water Resources was consulted for the Temecula Valley Groundwater Basin Bulletin 118, Sustainable Groundwater Management Act (SGMA) 2019 Basin Prioritization Frequently Asked Questions, and SGMA Basin Prioritization Dashboard.

California Native Plant Society

Summary of Consultation and Coordination:

The California Native Plant Society was consulted for a list of rare and endangered plants.

City of Temecula

Summary of Consultation and Coordination:

The City of Temecula was consulted for information regarding the Specific Plan, General Plan, Zoning Map, and Municipal Code, as well as information regarding existing public services, including law enforcement, fire protection, parks, utilities, and solid waste. (Western Riverside County MSHCP)

County of Riverside

Summary of Consultation and Coordination:

The County of Riverside was consulted for its Fiscal Year 2021/2022 Recommended Budget State Schedules.

County of Riverside Treasurer

Summary of Consultation and Coordination:

The Riverside County Treasurer was consulted for its Annual Secured Property Tax Bill for Fiscal Year July 1, 2020, through June 30, 2021.

Eastern Municipal Water District

Summary of Consultation and Coordination:

The EMWD was consulted for information on wastewater services, including the Temecula Valley Regional Water Reclamation Facility, and the 2020 Urban Water Management Plan.

Federal Emergency Management Agency (FEMA)

Summary of Consultation and Coordination:

FEMA was consulted for the Guidelines for Implementing Executive Order 11988, Floodplain Management, and Executive Order 13690, Establishing a Federal Flood Risk Management Standard and a Process for Further Soliciting and Considering Stakeholder Input; and the FEMA Flood Map Service Center, Map 06065C3305G.

Native American Heritage Commission:

Summary of Consultation and Coordination:

The Native American Heritage Commission was contacted for a list of additional tribes in the vicinity of the Proposed Project site.

Rancho California Water District

Summary of Consultation and Coordination:

The RCWD was consulted for its Water Facilities Master Plan, Urban Water Management Plan, and Sewer Facilities Master Plan.

Southern California Association of Governments

Summary of Consultation and Coordination:

The Southern California Association of Governments was consulted for its Table II-A Derivation of Square Feet per Employee Based on: Median Employees per Acre, per Median Far.

State Water Resources Control Board

Summary of Consultation and Coordination:

The SWRCB was consulted for its Regional Water Quality Board Directory.

University of California Davis

Summary of Consultation and Coordination:

The University of California Davis was consulted for the California Water Indicators Portal (CWIP) – Department of Environmental Science and Policy, Lower Temecula Creek.

U.S. Census Bureau

Summary of Consultation and Coordination:

The U.S. Census Bureau was consulted for its American Community Survey, My Tribal Area Census data, and Riverside County and Temecula City Census data.

U.S. Department of Agriculture

Summary of Consultation and Coordination:

USDA was consulted for its Archaeological Resources Protection document.

U.S. Department of the Interior, Bureau of Indian Affairs (BIA), Pacific Regional Office

Summary of Consultation and Coordination:

The BIA was consulted regarding the scope and content of this EA.

U.S. Fish and Wildlife Service

Summary of Consultation and Coordination:

USFWS was consulted for the list of threatened and endangered species inquiry (IPaC), National Hydrography Dataset, and National Wetland Inventory.

U.S. Geological Survey

Summary of Consultation and Coordination:

USGS was consulted for A Tapestry of Time and Terrain pamphlet.

SECTION 6.0

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SECTION 7.0

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APPENDICES

APPENDIX A

AIR QUALITY AND GREENHOUSE GAS MEMORANDUM

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MEMORANDUM

To:	Lindsey Dollman, Pechanga Band of Luiseño Indians
From:	Matthew Morales, Dudek
CC:	Jonathan Rigg, Dudek; Michele Fahley, Pechanga Band of Luiseño Indians
Subject:	Air Quality and Greenhouse Gas Analysis for the Pechanga Band of Luiseño Indians Fee-To-Trust Application for the Wolf Valley Property
Date:	August 19, 2021
Attachment A:	CalEEMod Output Files

Dudek is pleased to submit this focused air quality and greenhouse gas (GHG) emissions assessment to assist in environmental planning requirements for the Pechanga Band of Luiseño Indians (Tribe's) Fee-To-Trust Application for the Wolf Valley Property within the City of Temecula (City), Riverside County (County), California. This memorandum estimates criteria air pollutants and GHG emissions from construction and operation of the Proposed Project and evaluates the Project's compliance with general conformity requirements under the federal Clean Air Act. The contents and organization of this memorandum are as follows: brief project description; general methodology and assumptions; air quality assessment, including a general conformity analysis; GHG emissions assessment; a summary of conclusions; and references cited.

1 Project Description

The Proposed Action is the taking of approximately 20 acres contiguous to the Tribe's reservation (i.e., the Wolf Valley Property) into federal trust status for the Tribe to protect and restore Tribal homelands. Although the Tribe has no current plans for development of the Proposed Action site, development of the Proposed Action site at a future time is reasonably foreseeable. Due to the underling zoning and land use designation of the site, it is assumed that the Proposed Action site would be developed with commercial uses (Proposed Project). Consistent with the Wolf Specific Plan, it is anticipated that the Proposed Project would result in development of approximately 200,000 square feet of leasable area designated for commercial uses and associated parking (approximately 1,100 parking spaces).

2 General Methodology and Assumptions

2.1 Construction

Emissions from Proposed Project construction activities were estimated using the California Emissions Estimator Model (CalEEMod) Version 2020.4.0. CalEEMod is a statewide computer model developed in cooperation with air districts throughout the state to quantify criteria air pollutant and GHG emissions associated with the construction and operational activities from a variety of land-use projects, such as residential, commercial, and industrial facilities.

To estimate Proposed Project emissions, it is assumed that construction of the Proposed Project would begin in March 2025 and would last approximately 17 months, ending August 2026. The analysis contained herein is based on the following assumptions (duration of phases is approximate):

- Site Preparation: 10 days
- Grading: 30 days
- Building Construction: 300 days
- Paving: 20 days
- Architectural Coating: 20 days

For the analysis, it was generally assumed that heavy construction equipment would be operating at the site 5 days per week (22 days per month) during Proposed Project construction. In addition to construction equipment operation, emissions from worker trips and vendor trucks (i.e., delivery trucks) were estimated based on CalEEMod defaults. Vendor trucks transporting building materials were assumed for building construction and haul trucks were not assumed for the import and export of earthwork material since soils are anticipated to be balanced on-site.

The construction equipment mix and estimated hours of equipment operation per day, as well as the estimated construction-related vehicle trips, used for the Proposed Project's air pollutant emissions modeling are based on CalEEMod defaults and are shown in Table 1. Additional details regarding construction assumptions are provided in the modeling output, Attachment A.

Table 1
Construction Scenario Assumptions

Construction Phase	Daily Worker One-Way Trips	Daily Vendor Truck One-Way Trips	Total Haul Truck One-Way Trips	Equipment	Quantity	Daily Usage Hours
Site Preparation	18	0	0	Rubber Tired Dozers	3	8
				Tractors/ Loaders/ Backhoes	4	8
Grading	20	0	0	Excavators	2	8
				Graders	1	8
				Rubber Tired Dozers	1	8
				Scrapers	2	8
				Tractors/ Loaders/ Backhoes	2	8
Building Construction	249	105	0	Cranes	1	7
				Forklifts	3	8
				Generator Sets	1	8
				Tractors/ Loaders/ Backhoes	3	7
				Welders	1	8
Paving	15	0	0	Pavers	2	8
				Paving Equipment	2	8
				Rollers	2	8
Architectural Coatings	50	0	0	Air Compressors	1	6

Source: See Attachment A for details.

2.2 Operations

Emissions from the operational phase of the Proposed Project were also estimated using CalEEMod Version 2020.4.0. Operational year 2027 was assumed based on the first full year of Proposed Project operations. During long-term operations, the Proposed Project would generate air pollutants and GHGs from mobile, energy, and area sources, and GHGs would be generated by solid waste and water supply/wastewater generation. CalEEMod was used to estimate emissions from all of these sources. Default daily vehicle trips were assumed for the regional shopping center. In addition, default CalEEMod assumptions were used for the generation of electricity associated with building energy, water supply, treatment, distribution and wastewater treatment, as well as natural gas consumption, area sources (i.e., landscaping, consumer products, and architectural coatings for building maintenance), and solid waste disposal.

3 Air Quality

3.1 Air Quality Overview

The Proposed Project is located within the South Coast Air Basin (SCAB) and is within the jurisdictional boundaries of the South Coast Air Quality Management District (SCAQMD), which has jurisdiction over Riverside County, including Temecula. Criteria air pollutants are defined as pollutants for which the federal and state governments have established ambient air quality standards, or criteria, for outdoor concentrations to protect public health. Criteria air pollutants that are evaluated include volatile organic compounds (VOCs), oxides of nitrogen (NO_x), carbon monoxide (CO), sulfur oxides (SO_x), particulate matter with an aerodynamic diameter less than or equal to 10 microns in size (PM_{10}), and particulate matter with an aerodynamic diameter less than or equal to 2.5 microns in size ($PM_{2.5}$). VOCs and NO_x are important because they are precursors to ozone (O_3).

3.2 General Conformity Background

Under Section 176(c)(1) of the federal Clean Air Act, federal agencies that "engage in, support in any way or provide financial assistance for, license or permit, or approve any activity"[1] must demonstrate that such actions do not interfere with state and local plans to bring an area into attainment with the National Ambient Air Quality Standards (NAAQS). The program by which a federal agency determines that its action would not obstruct or conflict with air quality attainment plans is called "general conformity." The implementing regulations for general conformity are found in Title 40, Code of Federal Regulations, Part 51, Subpart W.

Under the general conformity regulations, both the direct and indirect emissions associated with a federal action must be evaluated. Subpart W defines direct emissions as:

> *[T]hose emissions of a criteria pollutant or its precursors that are caused or initiated by the Federal action and occur at the same time and place as the action.*

Indirect emissions are defined as:

> *[T]hose emissions of a criteria pollutant or its precursors that:*
>
> *(1) Are caused by the Federal action, but may occur later in time and/or may be farther removed in distance from the action itself but are still reasonably foreseeable; and*
>
> *(2) The Federal agency can practicably control and will maintain control over due to a continuing program responsibility of the Federal agency.*

3.3 Attainment Status and General Conformity Thresholds

The first step in the general conformity analysis is the applicability analysis. The National Highway System Designation Act of 1995, (Pub. L. 104–59) added section 176(c)(5) to the Clean Air Act to limit applicability of the

1 Title 40, Code of Federal Regulation, Part 51, Section 51.850.

conformity programs to areas designated as nonattainment under section 107 of the Clean Air Act and maintenance areas under section 175A of the Clean Air Act only. Therefore, only actions in designated nonattainment and maintenance areas are subject to the regulation. In addition, the regulations recognize that the vast majority of Federal actions do not result in significant increase in emissions and, therefore, include a number of exemptions such as de minimis emission levels based on the type and severity of the nonattainment problem.

Accordingly, a conformity determination is required for each criteria pollutant or precursor where the direct and indirect emissions of the criteria pollutant or precursor in a federal nonattainment or maintenance area would equal or exceed specified annual emission rates, referred to as "de minimis" thresholds. For O_3 precursors (VOCs and NO_x) and particulate matter, the de minimis thresholds depend on the nonattainment classification's severity; for other pollutants, the threshold is set at 100 tons per year. The Pechanga Reservation is currently classified as a federal nonattainment area for the 2015 O_3 standard (marginal) (EPA 2021a). In addition, the Riverside County portion of the SCAB is currently classified as a federal nonattainment area for $PM_{2.5}$ (serious), and a federal maintenance area for PM_{10}, NO_2 and CO (EPA 2021a). The Riverside County portion of the SCAB is unclassified or attainment for the other federal standards. The relevant de minimis thresholds are shown in Table 2.

Table 2
General Conformity De Minimis Thresholds

Pollutant	Attainment Status	Annual Emissions (tons per year)
VOC	Nonattainment/Marginal (O_3)	100
NO_X	Nonattainment/Marginal (O_3)	100
$PM_{2.5}$	Nonattainment/Serious	70
PM_{10}	Maintenance	100
CO	Maintenance	100

Source: EPA 2021a; EPA 2021b
Notes: VOC = volatile organic compound; NO_x = oxides of nitrogen; O_3 = ozone; $PM_{2.5}$ = particulate matter with an aerodynamic diameter less than or equal to 2.5 microns; PM_{10} = particulate matter with an aerodynamic diameter less than or equal to 10 microns; CO = carbon monoxide.

3.4 Criteria Air Pollutant Emissions

3.4.1 Construction

Construction of the Proposed Project would result in the temporary addition of pollutants to the local airshed caused by on-site sources (i.e., off-road construction equipment and soil disturbance) and off-site sources (i.e., on-road vendor trucks and worker vehicle trips). CalEEMod was used to calculate the annual criteria air pollutant emissions based on the construction scenario described in Section 2, General Methodology and Assumptions. Table 3 presents the estimated annual emissions generated during construction of the Proposed Project. While there are no applicable de minimis thresholds for SO_x, as the SCAB is in attainment of the NAAQS for this pollutant, estimated annual emissions for SO_x are provided in Table 3 for disclosure. Details of the emission calculations are provided in Attachment A.

Table 3
Estimated Annual Construction Criteria Air Pollutant Emissions

Year	VOC	NO_x	CO	SO_x	PM_{10}	$PM_{2.5}$
	Tons per Year					
2025	0.25	2.02	2.66	0.01	0.62	0.26
2026	1.14	1.10	1.63	<0.01	0.25	0.09
Maximum Annual Emissions	**1.14**	**2.02**	**2.66**	**0.01**	**0.62**	**0.26**
De Minimis Threshold	*100*	*100*	*100*	*N/A*	*100*	*70*
Exceeds threshold?	**No**	**No**	**No**	**N/A**	**No**	**No**

Notes: VOC = volatile organic compound; NO_x = oxides of nitrogen; CO = carbon monoxide; SO_x = sulfur oxides; PM_{10} = coarse particulate matter; $PM_{2.5}$ = fine particulate matter; N/A = not applicable.
See Attachment A for complete results.

As shown in Table 3, the annual emissions of VOC, NO_x, CO, PM_{10}, and $PM_{2.5}$ would not exceed the applicable de minimis thresholds; therefore, further analysis is not required for VOC, NO_x, CO, PM_{10}, and $PM_{2.5}$. As such, the Proposed Project would be in compliance with the general conformity requirements and would not conflict with local air quality attainment plans to achieve federal ambient air quality standards.

3.4.2 Operations

Table 4 presents the estimated annual area, energy, and mobile source emissions associated with operation of the Proposed Project. Details of the emission calculations are provided in Attachment A.

Table 4
Estimated Annual Operational Criteria Air Pollutant Emissions

Source	VOC	NO_x	CO	SO_x	PM_{10}	$PM_{2.5}$
	Tons per Year					
Area	0.85	<0.01	0.02	0.00	<0.01	<0.01
Energy	<0.01	0.02	0.02	<0.01	<0.01	<0.01
Mobile	2.58	3.44	23.01	0.05	6.02	1.64
Total Project Operations	**3.44**	**3.46**	**23.05**	**0.05**	**6.02**	**1.64**
De Minimis Threshold	*100*	*100*	*100*	*N/A*	*100*	*70*
Exceeds threshold?	**No**	**No**	**No**	**N/A**	**No**	**No**

Notes: VOC = volatile organic compound; NO_x = oxides of nitrogen; CO = carbon monoxide; SO_x = sulfur oxides; PM_{10} = coarse particulate matter; $PM_{2.5}$ = fine particulate matter; N/A = not applicable.
Totals may not sum due to rounding. See Attachment A for complete results.

As shown in Table 4, the annual emissions of VOC, NO_x, CO, PM_{10}, and $PM_{2.5}$ associated with the Proposed Project would not exceed the de minimis thresholds; therefore, further analysis is not required for VOC, NO_x, CO, PM_{10},

and $PM_{2.5}$. As such, the Proposed Project would be in compliance with the general conformity requirements and would not conflict with local air quality attainment plans to achieve federal ambient air quality standards.

4 Greenhouse Gas Emissions

4.1 Greenhouse Gases Overview

A GHG is any gas that absorbs infrared radiation in the atmosphere; in other words, GHGs trap heat in the atmosphere. As defined in California Health and Safety Code Section 38505(g), for purposes of administering many of the state's primary GHG emissions reduction programs, GHGs include carbon dioxide (CO_2), methane (CH_4), nitrous oxide (N_2O), hydrofluorocarbons (HFCs), perfluorocarbons (PFCs), sulfur hexafluoride (SF_6), and nitrogen trifluoride. (See also Cal. Code Regs. tit. 14, § 15364.5.) Some GHGs, such as CO_2, CH_4, and N_2O, occur naturally and are emitted into the atmosphere through natural processes and human activities. Of these gases, CO_2 and CH_4 are the predominant GHGs emitted from human activities. Manufactured GHGs, which have a much greater heat-absorption potential than CO_2, include fluorinated gases, such as HFCs, PFCs, and SF_6, associated with certain industrial products and processes.

The effect each GHG has on climate change is measured as a combination of the mass of its emissions and the potential of a gas or aerosol to trap heat in the atmosphere, known as its global warming potential (GWP), which varies among GHGs. Total GHG emissions are expressed as a function of how much warming would be caused by the same mass of CO_2. Thus, GHG gas emissions are typically measured in metric tons (MT) of CO_2 equivalent (CO_2e).[2]

Climate change refers to any significant change in measures of climate, such as temperature, precipitation, or wind patterns, lasting for an extended period of time (decades or longer). The greenhouse effect, which is the trapping and build-up of heat in the atmosphere near the Earth's surface, is a natural process that contributes to regulating the Earth's temperature. Human activities that emit additional GHGs to the atmosphere increase the amount of infrared radiation that gets absorbed before escaping into space, thus enhancing the greenhouse effect and causing the Earth's surface temperature to rise.

The Council on Environmental Quality (CEQ) has withdrawn its final guidance for Federal agencies on how to consider GHG emissions and the effects of climate change in National Environmental Policy Act (NEPA) reviews, a Notice of Availability for which was published on August 5, 2016 (81 FR 51866). As explained in the Notice of Availability, the withdrawn guidance was not a regulation. Pursuant to Executive Order 13783, "Promoting Energy Independence and Economic Growth,"[3] of March 28, 2017, the guidance has been withdrawn for further consideration. Subsequently, in 2019, the CEQ published draft guidance for the consideration of GHG emissions under NEPA. On January 20, 2021, however, President Biden rescinded the CEQ June 2019 Draft NEPA Guidance

[2] The CO_2 equivalent for a gas is derived by multiplying the mass of the gas by the associated GWP, such that metric tons of CO_2e = (metric tons of a GHG) × (GWP of the GHG). CalEEMod assumes that the GWP for CH_4 is 25, which means that emissions of 1 metric ton of CH_4 are equivalent to emissions of 25 metric tons of CO_2, and the GWP for N_2O is 298.

[3] Executive Order 13783, Promoting Energy Independence and Economic Growth, is available here: https://www.federalregister.gov/documents/2017/03/31/2017-06576/promoting-energy-independence-and-economic-growth.

on Consideration of GHG Emissions and directed preparation of new guidance building on the August 2016 Final Guidance for Federal Departments and Agencies on Consideration of Greenhouse Gas Emissions and the Effects of Climate Change in NEPA Reviews. While there are currently no formal guidance or numeric thresholds for evaluating project-generated GHG emissions in NEPA assessments, estimated Project-generated GHG emissions are included herein for disclosure purposes.

4.2 GHG Emissions

4.2.1 Construction

Construction of the Proposed Project would result in GHG emissions that are primarily associated with use of off-road construction equipment, and on-road vendor and worker vehicles. CalEEMod was used to calculate the annual GHG emissions based on the construction scenario described in Section 2, General Methodology and Assumptions. Table 5 shows the estimated annual GHG construction emissions associated with the Proposed Project. Details of the emission calculations are provided in Attachment A.

Table 5
Estimated Annual Construction GHG Emissions

Year	CO_2	CH_4	N_2O	CO_2e
	Metric Tons per Year			
2025	633.32	0.09	0.03	643.43
2026	386.38	0.04	0.02	392.80
Total Project Construction Emissions				**1,036.24**

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

As shown in Table 5, the estimated total Proposed Project-generated construction GHG emissions would be minimal, estimated at approximately 1,036 MT CO_2e.

4.2.2 Operations

Table 6 presents the area sources, energy usage, motor vehicles, solid waste generation, water usage and wastewater generation GHG emissions associated with operation of the Proposed Project. Details of the GHG emission calculations are provided in Attachment A.

Table 6
Estimated Annual Operational GHG Emissions

Year	CO_2	CH_4	N_2O	CO_2e
	Metric Tons per Year			
Area	0.03	<0.01	0.00	0.03
Energy	481.39	0.04	0.01	483.89
Mobile	4,802.37	0.28	0.26	4,885.52
Solid waste	42.63	2.52	0.00	105.61
Water supply and wastewater	56.80	0.49	0.01	72.53
Total Project Operational Emissions				**5,547.59**

Notes: CO_2 = carbon dioxide; CH_4 = methane; N_2O = nitrous oxide; CO_2e = carbon dioxide equivalent.
Totals may not sum due to rounding. See Attachment A for complete results.

As shown in Table 6, the annual emissions of GHGs associated with the Proposed Project would be approximately 5,548 MT CO_2e per year.

5 Summary

Neither construction emissions nor the operational emissions generated by the Proposed Project would exceed the general conformity de minimis thresholds for VOC, NO_x, CO, PM_{10}, and $PM_{2.5}$, as shown in Tables 3 and 4. Accordingly, the Proposed Project would be in compliance with the federal Clean Air Act and general conformity requirements.

While there are no specific requirements for evaluating GHG emissions under NEPA, estimated Project-generated GHG emissions are included for disclosure. As presented in Tables 5 and 6, the project is estimated to generate a total of approximately 1,036 MT CO_2e during construction and 5,548 MT CO_2e per year during operations.

6 References

EPA (U.S. Environmental Protection Agency). 2021a. "EPA Green Book: California Nonattainment/ Maintenance Status for Each County by Year for All Criteria Pollutants." Last updated July 31, 2021. Accessed August 2021. https://www3.epa.gov/airquality/greenbook/anayo_ca.html.

EPA. 2021b. "De Minimis Tables." Last updated July 22, 2021. Accessed August 2021. https://www.epa.gov/general-conformity/de-minimis-tables.

Attachment A

CalEEMod Output Files

Pechanga Wolf Valley - Riverside-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Pechanga Wolf Valley

Riverside-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Regional Shopping Center	200.00	1000sqft	4.59	200,000.00	0
Parking Lot	1,100.00	Space	9.90	440,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.4	**Precipitation Freq (Days)**	28
Climate Zone	10			**Operational Year**	2027
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	390.98	**CH4 Intensity (lb/MWhr)**	0.033	**N2O Intensity (lb/MWhr)**	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - 200 ksf commercial shopping center and associated parking

Construction Phase - Default duration of construction phases

Off-road Equipment - Default

Off-road Equipment - Default

Off-road Equipment - Default

Off-road Equipment - Default

Off-road Equipment - Default

Grading - Default

Trips and VMT - Default

On-road Fugitive Dust - Default

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Architectural Coating - Default

Vehicle Trips - Default trip rates

Consumer Products - Default

Area Coating - Default

Landscape Equipment - Default

Energy Use - Default

Water And Wastewater - Default

Solid Waste - Default

Table Name	Column Name	Default Value	New Value

2.0 Emissions Summary

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2025	0.2513	2.0161	2.6555	7.0200e-003	0.5432	0.0731	0.6163	0.1882	0.0683	0.2565	0.0000	633.3159	633.3159	0.0859	0.0267	643.4339
2026	1.1443	1.1010	1.6345	4.2700e-003	0.2146	0.0394	0.2540	0.0579	0.0370	0.0949	0.0000	386.3782	386.3782	0.0435	0.0179	392.8050
Maximum	**1.1443**	**2.0161**	**2.6555**	**7.0200e-003**	**0.5432**	**0.0731**	**0.6163**	**0.1882**	**0.0683**	**0.2565**	**0.0000**	**633.3159**	**633.3159**	**0.0859**	**0.0267**	**643.4339**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2025	0.2513	2.0161	2.6555	7.0200e-003	0.5432	0.0731	0.6163	0.1882	0.0683	0.2565	0.0000	633.3155	633.3155	0.0859	0.0267	643.4335
2026	1.1443	1.1010	1.6345	4.2700e-003	0.2146	0.0394	0.2540	0.0579	0.0370	0.0949	0.0000	386.3780	386.3780	0.0435	0.0179	392.8048
Maximum	**1.1443**	**2.0161**	**2.6555**	**7.0200e-003**	**0.5432**	**0.0731**	**0.6163**	**0.1882**	**0.0683**	**0.2565**	**0.0000**	**633.3155**	**633.3155**	**0.0859**	**0.0267**	**643.4335**

Pechanga Wolf Valley - Riverside-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	**3-1-2025**	**5-31-2025**	0.8422	0.8422
2	**6-1-2025**	**8-31-2025**	0.6110	0.6110
3	**9-1-2025**	**11-30-2025**	0.6080	0.6080
4	**12-1-2025**	**2-28-2026**	0.6005	0.6005
5	**3-1-2026**	**5-31-2026**	0.6087	0.6087
6	**6-1-2026**	**8-31-2026**	1.2376	1.2376
		Highest	1.2376	1.2376

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.8515	1.5000e-004	0.0166	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005	0.0000	0.0323	0.0323	8.0000e-005	0.0000	0.0344
Energy	2.3700e-003	0.0216	0.0181	1.3000e-004		1.6400e-003	1.6400e-003		1.6400e-003	1.6400e-003	0.0000	481.3863	481.3863	0.0391	5.1200e-003	483.8881
Mobile	2.5842	3.4421	23.0136	0.0519	5.9798	0.0416	6.0214	1.5971	0.0390	1.6360	0.0000	4,802.3718	4,802.3718	0.2785	0.2557	4,885.5232
Waste						0.0000	0.0000		0.0000	0.0000	42.6281	0.0000	42.6281	2.5193	0.0000	105.6093
Water						0.0000	0.0000		0.0000	0.0000	4.7000	52.1000	56.8000	0.4871	0.0119	72.5337
Total	**3.4380**	**3.4638**	**23.0482**	**0.0521**	**5.9798**	**0.0433**	**6.0231**	**1.5971**	**0.0407**	**1.6377**	**47.3281**	**5,335.8904**	**5,383.2184**	**3.3240**	**0.2727**	**5,547.5887**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.8515	1.5000e-004	0.0166	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005	0.0000	0.0323	0.0323	8.0000e-005	0.0000	0.0344
Energy	2.3700e-003	0.0216	0.0181	1.3000e-004		1.6400e-003	1.6400e-003		1.6400e-003	1.6400e-003	0.0000	481.3863	481.3863	0.0391	5.1200e-003	483.8881
Mobile	2.5842	3.4421	23.0136	0.0519	5.9798	0.0416	6.0214	1.5971	0.0390	1.6360	0.0000	4,802.3718	4,802.3718	0.2785	0.2557	4,885.5232
Waste						0.0000	0.0000		0.0000	0.0000	42.6281	0.0000	42.6281	2.5193	0.0000	105.6093
Water						0.0000	0.0000		0.0000	0.0000	4.7000	52.1000	56.8000	0.4871	0.0119	72.5337
Total	**3.4380**	**3.4638**	**23.0482**	**0.0521**	**5.9798**	**0.0433**	**6.0231**	**1.5971**	**0.0407**	**1.6377**	**47.3281**	**5,335.8904**	**5,383.2184**	**3.3240**	**0.2727**	**5,547.5887**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	3/1/2025	3/14/2025	5	10	
2	Grading	Grading	3/15/2025	4/25/2025	5	30	
3	Building Construction	Building Construction	4/26/2025	6/19/2026	5	300	

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

4	Paving	Paving	6/20/2026	7/17/2026	5	20	
5	Architectural Coating	Architectural Coating	7/18/2026	8/14/2026	5	20	

Acres of Grading (Site Preparation Phase): 15

Acres of Grading (Grading Phase): 90

Acres of Paving: 9.9

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 300,000; Non-Residential Outdoor: 100,000; Striped Parking Area: 26,400 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Building Construction	Cranes	1	7.00	231	0.29
Grading	Excavators	2	8.00	158	0.38
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Grading	Graders	1	8.00	187	0.41
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45

Trips and VMT

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	249.00	105.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	50.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Site Preparation - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0983	0.0000	0.0983	0.0505	0.0000	0.0505	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0124	0.1262	0.0896	1.9000e-004		5.4300e-003	5.4300e-003		5.0000e-003	5.0000e-003	0.0000	16.7335	16.7335	5.4100e-003	0.0000	16.8688
Total	**0.0124**	**0.1262**	**0.0896**	**1.9000e-004**	**0.0983**	**5.4300e-003**	**0.1037**	**0.0505**	**5.0000e-003**	**0.0555**	**0.0000**	**16.7335**	**16.7335**	**5.4100e-003**	**0.0000**	**16.8688**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Site Preparation - 2025

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.5000e-004	1.7000e-004	2.4500e-003	1.0000e-005	9.9000e-004	0.0000	9.9000e-004	2.6000e-004	0.0000	2.7000e-004	0.0000	0.7037	0.7037	2.0000e-005	2.0000e-005	0.7093
Total	**2.5000e-004**	**1.7000e-004**	**2.4500e-003**	**1.0000e-005**	**9.9000e-004**	**0.0000**	**9.9000e-004**	**2.6000e-004**	**0.0000**	**2.7000e-004**	**0.0000**	**0.7037**	**0.7037**	**2.0000e-005**	**2.0000e-005**	**0.7093**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0983	0.0000	0.0983	0.0505	0.0000	0.0505	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0124	0.1262	0.0896	1.9000e-004		5.4300e-003	5.4300e-003		5.0000e-003	5.0000e-003	0.0000	16.7335	16.7335	5.4100e-003	0.0000	16.8688
Total	**0.0124**	**0.1262**	**0.0896**	**1.9000e-004**	**0.0983**	**5.4300e-003**	**0.1037**	**0.0505**	**5.0000e-003**	**0.0555**	**0.0000**	**16.7335**	**16.7335**	**5.4100e-003**	**0.0000**	**16.8688**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Site Preparation - 2025

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.5000e-004	1.7000e-004	2.4500e-003	1.0000e-005	9.9000e-004	0.0000	9.9000e-004	2.6000e-004	0.0000	2.7000e-004	0.0000	0.7037	0.7037	2.0000e-005	2.0000e-005	0.7093
Total	**2.5000e-004**	**1.7000e-004**	**2.4500e-003**	**1.0000e-005**	**9.9000e-004**	**0.0000**	**9.9000e-004**	**2.6000e-004**	**0.0000**	**2.7000e-004**	**0.0000**	**0.7037**	**0.7037**	**2.0000e-005**	**2.0000e-005**	**0.7093**

3.3 Grading - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1381	0.0000	0.1381	0.0548	0.0000	0.0548	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0435	0.4191	0.3950	9.3000e-004		0.0170	0.0170		0.0156	0.0156	0.0000	81.7593	81.7593	0.0264	0.0000	82.4204
Total	**0.0435**	**0.4191**	**0.3950**	**9.3000e-004**	**0.1381**	**0.0170**	**0.1550**	**0.0548**	**0.0156**	**0.0704**	**0.0000**	**81.7593**	**81.7593**	**0.0264**	**0.0000**	**82.4204**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Grading - 2025

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.5000e-004	5.7000e-004	8.1800e-003	3.0000e-005	3.3000e-003	1.0000e-005	3.3100e-003	8.8000e-004	1.0000e-005	8.9000e-004	0.0000	2.3458	2.3458	5.0000e-005	6.0000e-005	2.3643
Total	**8.5000e-004**	**5.7000e-004**	**8.1800e-003**	**3.0000e-005**	**3.3000e-003**	**1.0000e-005**	**3.3100e-003**	**8.8000e-004**	**1.0000e-005**	**8.9000e-004**	**0.0000**	**2.3458**	**2.3458**	**5.0000e-005**	**6.0000e-005**	**2.3643**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1381	0.0000	0.1381	0.0548	0.0000	0.0548	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0435	0.4191	0.3950	9.3000e-004		0.0170	0.0170		0.0156	0.0156	0.0000	81.7592	81.7592	0.0264	0.0000	82.4203
Total	**0.0435**	**0.4191**	**0.3950**	**9.3000e-004**	**0.1381**	**0.0170**	**0.1550**	**0.0548**	**0.0156**	**0.0704**	**0.0000**	**81.7592**	**81.7592**	**0.0264**	**0.0000**	**82.4203**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Grading - 2025

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.5000e-004	5.7000e-004	8.1800e-003	3.0000e-005	3.3000e-003	1.0000e-005	3.3100e-003	8.8000e-004	1.0000e-005	8.9000e-004	0.0000	2.3458	2.3458	5.0000e-005	6.0000e-005	2.3643
Total	**8.5000e-004**	**5.7000e-004**	**8.1800e-003**	**3.0000e-005**	**3.3000e-003**	**1.0000e-005**	**3.3100e-003**	**8.8000e-004**	**1.0000e-005**	**8.9000e-004**	**0.0000**	**2.3458**	**2.3458**	**5.0000e-005**	**6.0000e-005**	**2.3643**

3.4 Building Construction - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1217	1.1098	1.4315	2.4000e-003		0.0470	0.0470		0.0442	0.0442	0.0000	206.4083	206.4083	0.0485	0.0000	207.6213
Total	**0.1217**	**1.1098**	**1.4315**	**2.4000e-003**		**0.0470**	**0.0470**		**0.0442**	**0.0442**	**0.0000**	**206.4083**	**206.4083**	**0.0485**	**0.0000**	**207.6213**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Building Construction - 2025

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	9.8400e-003	0.3178	0.1248	1.5800e-003	0.0590	2.6500e-003	0.0617	0.0170	2.5300e-003	0.0196	0.0000	152.0801	152.0801	1.7100e-003	0.0224	158.8001
Worker	0.0628	0.0425	0.6040	1.8900e-003	0.2436	1.0500e-003	0.2446	0.0647	9.7000e-004	0.0656	0.0000	173.2851	173.2851	3.7900e-003	4.2600e-003	174.6497
Total	**0.0726**	**0.3603**	**0.7288**	**3.4700e-003**	**0.3026**	**3.7000e-003**	**0.3063**	**0.0817**	**3.5000e-003**	**0.0852**	**0.0000**	**325.3652**	**325.3652**	**5.5000e-003**	**0.0267**	**333.4498**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1217	1.1098	1.4315	2.4000e-003		0.0470	0.0470		0.0442	0.0442	0.0000	206.4081	206.4081	0.0485	0.0000	207.6211
Total	**0.1217**	**1.1098**	**1.4315**	**2.4000e-003**		**0.0470**	**0.0470**		**0.0442**	**0.0442**	**0.0000**	**206.4081**	**206.4081**	**0.0485**	**0.0000**	**207.6211**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Building Construction - 2025

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	9.8400e-003	0.3178	0.1248	1.5800e-003	0.0590	2.6500e-003	0.0617	0.0170	2.5300e-003	0.0196	0.0000	152.0801	152.0801	1.7100e-003	0.0224	158.8001
Worker	0.0628	0.0425	0.6040	1.8900e-003	0.2436	1.0500e-003	0.2446	0.0647	9.7000e-004	0.0656	0.0000	173.2851	173.2851	3.7900e-003	4.2600e-003	174.6497
Total	**0.0726**	**0.3603**	**0.7288**	**3.4700e-003**	**0.3026**	**3.7000e-003**	**0.3063**	**0.0817**	**3.5000e-003**	**0.0852**	**0.0000**	**325.3652**	**325.3652**	**5.5000e-003**	**0.0267**	**333.4498**

3.4 Building Construction - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0834	0.7607	0.9812	1.6400e-003		0.0322	0.0322		0.0303	0.0303	0.0000	141.4709	141.4709	0.0333	0.0000	142.3023
Total	**0.0834**	**0.7607**	**0.9812**	**1.6400e-003**		**0.0322**	**0.0322**		**0.0303**	**0.0303**	**0.0000**	**141.4709**	**141.4709**	**0.0333**	**0.0000**	**142.3023**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Building Construction - 2026

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.6600e-003	0.2156	0.0847	1.0600e-003	0.0405	1.8100e-003	0.0423	0.0117	1.7300e-003	0.0134	0.0000	102.3387	102.3387	1.2100e-003	0.0151	106.8535
Worker	0.0405	0.0263	0.3881	1.2500e-003	0.1670	6.8000e-004	0.1676	0.0443	6.3000e-004	0.0450	0.0000	115.0718	115.0718	2.3600e-003	2.7500e-003	115.9494
Total	**0.0471**	**0.2419**	**0.4728**	**2.3100e-003**	**0.2074**	**2.4900e-003**	**0.2099**	**0.0560**	**2.3600e-003**	**0.0584**	**0.0000**	**217.4104**	**217.4104**	**3.5700e-003**	**0.0178**	**222.8029**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0834	0.7607	0.9812	1.6400e-003		0.0322	0.0322		0.0303	0.0303	0.0000	141.4707	141.4707	0.0333	0.0000	142.3021
Total	**0.0834**	**0.7607**	**0.9812**	**1.6400e-003**		**0.0322**	**0.0322**		**0.0303**	**0.0303**	**0.0000**	**141.4707**	**141.4707**	**0.0333**	**0.0000**	**142.3021**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Building Construction - 2026

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.6600e-003	0.2156	0.0847	1.0600e-003	0.0405	1.8100e-003	0.0423	0.0117	1.7300e-003	0.0134	0.0000	102.3387	102.3387	1.2100e-003	0.0151	106.8535
Worker	0.0405	0.0263	0.3881	1.2500e-003	0.1670	6.8000e-004	0.1676	0.0443	6.3000e-004	0.0450	0.0000	115.0718	115.0718	2.3600e-003	2.7500e-003	115.9494
Total	**0.0471**	**0.2419**	**0.4728**	**2.3100e-003**	**0.2074**	**2.4900e-003**	**0.2099**	**0.0560**	**2.3600e-003**	**0.0584**	**0.0000**	**217.4104**	**217.4104**	**3.5700e-003**	**0.0178**	**222.8029**

3.5 Paving - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	9.1500e-003	0.0858	0.1458	2.3000e-004		4.1900e-003	4.1900e-003		3.8500e-003	3.8500e-003	0.0000	20.0193	20.0193	6.4700e-003	0.0000	20.1811
Paving	0.0130					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0221**	**0.0858**	**0.1458**	**2.3000e-004**		**4.1900e-003**	**4.1900e-003**		**3.8500e-003**	**3.8500e-003**	**0.0000**	**20.0193**	**20.0193**	**6.4700e-003**	**0.0000**	**20.1811**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Paving - 2026

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.0000e-004	2.6000e-004	3.8300e-003	1.0000e-005	1.6500e-003	1.0000e-005	1.6600e-003	4.4000e-004	1.0000e-005	4.4000e-004	0.0000	1.1364	1.1364	2.0000e-005	3.0000e-005	1.1451
Total	**4.0000e-004**	**2.6000e-004**	**3.8300e-003**	**1.0000e-005**	**1.6500e-003**	**1.0000e-005**	**1.6600e-003**	**4.4000e-004**	**1.0000e-005**	**4.4000e-004**	**0.0000**	**1.1364**	**1.1364**	**2.0000e-005**	**3.0000e-005**	**1.1451**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	9.1500e-003	0.0858	0.1458	2.3000e-004		4.1900e-003	4.1900e-003		3.8500e-003	3.8500e-003	0.0000	20.0192	20.0192	6.4700e-003	0.0000	20.1811
Paving	0.0130					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0221**	**0.0858**	**0.1458**	**2.3000e-004**		**4.1900e-003**	**4.1900e-003**		**3.8500e-003**	**3.8500e-003**	**0.0000**	**20.0192**	**20.0192**	**6.4700e-003**	**0.0000**	**20.1811**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Paving - 2026

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.0000e-004	2.6000e-004	3.8300e-003	1.0000e-005	1.6500e-003	1.0000e-005	1.6600e-003	4.4000e-004	1.0000e-005	4.4000e-004	0.0000	1.1364	1.1364	2.0000e-005	3.0000e-005	1.1451
Total	**4.0000e-004**	**2.6000e-004**	**3.8300e-003**	**1.0000e-005**	**1.6500e-003**	**1.0000e-005**	**1.6600e-003**	**4.4000e-004**	**1.0000e-005**	**4.4000e-004**	**0.0000**	**1.1364**	**1.1364**	**2.0000e-005**	**3.0000e-005**	**1.1451**

3.6 Architectural Coating - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.9882					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.7100e-003	0.0115	0.0181	3.0000e-005		5.2000e-004	5.2000e-004		5.2000e-004	5.2000e-004	0.0000	2.5533	2.5533	1.4000e-004	0.0000	2.5567
Total	**0.9899**	**0.0115**	**0.0181**	**3.0000e-005**		**5.2000e-004**	**5.2000e-004**		**5.2000e-004**	**5.2000e-004**	**0.0000**	**2.5533**	**2.5533**	**1.4000e-004**	**0.0000**	**2.5567**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 Architectural Coating - 2026

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.3300e-003	8.7000e-004	0.0128	4.0000e-005	5.5000e-003	2.0000e-005	5.5200e-003	1.4600e-003	2.0000e-005	1.4800e-003	0.0000	3.7880	3.7880	8.0000e-005	9.0000e-005	3.8169
Total	**1.3300e-003**	**8.7000e-004**	**0.0128**	**4.0000e-005**	**5.5000e-003**	**2.0000e-005**	**5.5200e-003**	**1.4600e-003**	**2.0000e-005**	**1.4800e-003**	**0.0000**	**3.7880**	**3.7880**	**8.0000e-005**	**9.0000e-005**	**3.8169**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.9882					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.7100e-003	0.0115	0.0181	3.0000e-005		5.2000e-004	5.2000e-004		5.2000e-004	5.2000e-004	0.0000	2.5533	2.5533	1.4000e-004	0.0000	2.5567
Total	**0.9899**	**0.0115**	**0.0181**	**3.0000e-005**		**5.2000e-004**	**5.2000e-004**		**5.2000e-004**	**5.2000e-004**	**0.0000**	**2.5533**	**2.5533**	**1.4000e-004**	**0.0000**	**2.5567**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 Architectural Coating - 2026

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.3300e-003	8.7000e-004	0.0128	4.0000e-005	5.5000e-003	2.0000e-005	5.5200e-003	1.4600e-003	2.0000e-005	1.4800e-003	0.0000	3.7880	3.7880	8.0000e-005	9.0000e-005	3.8169
Total	**1.3300e-003**	**8.7000e-004**	**0.0128**	**4.0000e-005**	**5.5000e-003**	**2.0000e-005**	**5.5200e-003**	**1.4600e-003**	**2.0000e-005**	**1.4800e-003**	**0.0000**	**3.7880**	**3.7880**	**8.0000e-005**	**9.0000e-005**	**3.8169**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	2.5842	3.4421	23.0136	0.0519	5.9798	0.0416	6.0214	1.5971	0.0390	1.6360	0.0000	4,802.3718	4,802.3718	0.2785	0.2557	4,885.5232
Unmitigated	2.5842	3.4421	23.0136	0.0519	5.9798	0.0416	6.0214	1.5971	0.0390	1.6360	0.0000	4,802.3718	4,802.3718	0.2785	0.2557	4,885.5232

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Parking Lot	0.00	0.00	0.00		
Regional Shopping Center	7,550.00	9,224.00	4220.00	15,817,805	15,817,805
Total	7,550.00	9,224.00	4,220.00	15,817,805	15,817,805

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Regional Shopping Center	16.60	8.40	6.90	16.30	64.70	19.00	54	35	11

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Parking Lot	0.544951	0.056922	0.175129	0.132247	0.024165	0.006855	0.011655	0.018450	0.000608	0.000293	0.023172	0.001089	0.004464
Regional Shopping Center	0.544951	0.056922	0.175129	0.132247	0.024165	0.006855	0.011655	0.018450	0.000608	0.000293	0.023172	0.001089	0.004464

5.0 Energy Detail

Pechanga Wolf Valley - Riverside-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	457.9062	457.9062	0.0387	4.6800e-003	460.2685
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	457.9062	457.9062	0.0387	4.6800e-003	460.2685
NaturalGas Mitigated	2.3700e-003	0.0216	0.0181	1.3000e-004		1.6400e-003	1.6400e-003		1.6400e-003	1.6400e-003	0.0000	23.4801	23.4801	4.5000e-004	4.3000e-004	23.6196
NaturalGas Unmitigated	2.3700e-003	0.0216	0.0181	1.3000e-004		1.6400e-003	1.6400e-003		1.6400e-003	1.6400e-003	0.0000	23.4801	23.4801	4.5000e-004	4.3000e-004	23.6196

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	440000	2.3700e-003	0.0216	0.0181	1.3000e-004		1.6400e-003	1.6400e-003		1.6400e-003	1.6400e-003	0.0000	23.4801	23.4801	4.5000e-004	4.3000e-004	23.6196
Total		**2.3700e-003**	**0.0216**	**0.0181**	**1.3000e-004**		**1.6400e-003**	**1.6400e-003**		**1.6400e-003**	**1.6400e-003**	**0.0000**	**23.4801**	**23.4801**	**4.5000e-004**	**4.3000e-004**	**23.6196**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	440000	2.3700e-003	0.0216	0.0181	1.3000e-004		1.6400e-003	1.6400e-003		1.6400e-003	1.6400e-003	0.0000	23.4801	23.4801	4.5000e-004	4.3000e-004	23.6196
Total		**2.3700e-003**	**0.0216**	**0.0181**	**1.3000e-004**		**1.6400e-003**	**1.6400e-003**		**1.6400e-003**	**1.6400e-003**	**0.0000**	**23.4801**	**23.4801**	**4.5000e-004**	**4.3000e-004**	**23.6196**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Parking Lot	154000	27.3112	2.3100e-003	2.8000e-004	27.4521
Regional Shopping Center	2.428e+006	430.5950	0.0363	4.4100e-003	432.8164
Total		**457.9062**	**0.0387**	**4.6900e-003**	**460.2685**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Parking Lot	154000	27.3112	2.3100e-003	2.8000e-004	27.4521
Regional Shopping Center	2.428e+006	430.5950	0.0363	4.4100e-003	432.8164
Total		**457.9062**	**0.0387**	**4.6900e-003**	**460.2685**

6.0 Area Detail

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.8515	1.5000e-004	0.0166	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005	0.0000	0.0323	0.0323	8.0000e-005	0.0000	0.0344
Unmitigated	0.8515	1.5000e-004	0.0166	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005	0.0000	0.0323	0.0323	8.0000e-005	0.0000	0.0344

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0988					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.7511					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.5200e-003	1.5000e-004	0.0166	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005	0.0000	0.0323	0.0323	8.0000e-005	0.0000	0.0344
Total	**0.8515**	**1.5000e-004**	**0.0166**	**0.0000**		**6.0000e-005**	**6.0000e-005**		**6.0000e-005**	**6.0000e-005**	**0.0000**	**0.0323**	**0.0323**	**8.0000e-005**	**0.0000**	**0.0344**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0988					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.7511					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.5200e-003	1.5000e-004	0.0166	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005	0.0000	0.0323	0.0323	8.0000e-005	0.0000	0.0344
Total	**0.8515**	**1.5000e-004**	**0.0166**	**0.0000**		**6.0000e-005**	**6.0000e-005**		**6.0000e-005**	**6.0000e-005**	**0.0000**	**0.0323**	**0.0323**	**8.0000e-005**	**0.0000**	**0.0344**

7.0 Water Detail

7.1 Mitigation Measures Water

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	56.8000	0.4871	0.0119	72.5337
Unmitigated	56.8000	0.4871	0.0119	72.5337

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	14.8145 / 9.07986	56.8000	0.4871	0.0119	72.5337
Total		**56.8000**	**0.4871**	**0.0119**	**72.5337**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	14.8145 / 9.07986	56.8000	0.4871	0.0119	72.5337
Total		**56.8000**	**0.4871**	**0.0119**	**72.5337**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	42.6281	2.5193	0.0000	105.6093
Unmitigated	42.6281	2.5193	0.0000	105.6093

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	210	42.6281	2.5193	0.0000	105.6093
Total		**42.6281**	**2.5193**	**0.0000**	**105.6093**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	210	42.6281	2.5193	0.0000	105.6093
Total		**42.6281**	**2.5193**	**0.0000**	**105.6093**

9.0 Operational Offroad

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

APPENDIX B

CULTURAL RESOURCES AND HISTORIC PROPERTIES SURVEY REPORT (CONFIDENTIAL)

APPENDIX C

TRANSPORTATION CONSISTENCY ANALYSIS

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TECHNICAL MEMORANDUM

To:	Lindsey Fletcher Dollman, Pechanga Indian Reservation
From:	Sabita Tewani, AICP, Transportation Planner
Subject:	Transportation Consistency Analysis for the Wolf Valley Property, Riverside County
Date:	September 30, 2021
cc:	Jonathan Rigg, Project Manager; Michele Fahley, Pechanga Indian Reservation; Dennis Pascua, Transportation Services Manager
Figures:	1 – Project Location 2 – Existing Land Use
Attachments:	A – Excerpts from Wolf Creek Specific Plan Environmental Impact Report B – Excerpts from Traffic Impact Study for the Pechanga Casino Resort Hotel (LLG, 2015)

The following technical memorandum (memo) provides a Transportation Consistency Analysis to assist in environmental planning requirements for the Pechanga Band of Luiseño Indians' (Tribe) Fee-To-Trust Application for the Wolf Valley Property adjacent to the City of Temecula (City) in Riverside County (County). This memo includes a transportation consistency analysis of the Proposed Project with the Wolf Creek Specific Plan (Specific Plan or WCSP) (City of Temecula, 2000) as well as General Plan Year 2035 traffic volumes (based on review of recent traffic study for the Pechanga Casino Resort Hotel) to determine whether traffic impacts from the development of the project site were included and adequately addressed in those documents.

1.0 Project Description and Setting

The Proposed Action is the taking of approximately 20 acres land contiguous to the Tribe's reservation (i.e., the Wolf Valley Property) into federal trust status for the Tribe to protect and restore Tribal homelands. Although the Tribe has no current plans for development of the Proposed Action site, development of the Proposed Action site at a future time is reasonably foreseeable. Due to the underling zoning and land use designation of the site, it is assumed that the Proposed Action site would be developed with commercial uses (Proposed Project). Consistent with the Specific Plan, it is anticipated that the Proposed Project would result in development of approximately 200,000 square feet of leasable area designated for commercial uses and associated parking (approximately 1,100 parking spaces).

Figure 1 shows the location of the Proposed Project. Regional access to the Proposed Project would be via Interstate (I) 15, State Route (SR) 79 and Pechanga Parkway. Local access to the Proposed Project would be via Wolf Valley Road and Wolf Creek Drive. Figure 2 shows the existing land use proposed for the project site per the Specific Plan. The Proposed Project comprises of two sites located to the north and south of Wolf Valley Road (herein referred to as the north site and south site). Based on the Specific Plan, project access driveways to North and south site would be provided along Wolf Valley Road. The access from Wolf Valley Road would provide left-in/right-in and right-out access from each site. One full access driveway to each site would be provided from Wolf Creek Road (previously called Interior Loop Road per the Specific Plan).

Existing Roadways

Descriptions of the local roadways that would serve the Proposed Project are provided below:

Pechanga Parkway is built as a Six-Lane Principal Arterial from SR-79 to south of Via Eduardo, where it transitions to a Four-Lane Major Arterial. South of Pechanga Road, Pechanga Parkway becomes a two-lane undivided roadway as it becomes Pala Road. The posted speed limit is generally 45 mph along Pechanga Parkway and on-street parking is prohibited. Several bus stops are located along the roadway. There is a striped class II bike lane from Clubhouse Drive to Deer Hollow Way.

Wolf Valley Road is classified as a Four-Lane Major Arterial on the City of Temecula's General Plan Circulation Element. Wolf Valley Road is currently constructed as a four-lane divided roadway with striped class II bike lanes. The posted speed limit is generally 45 mph and on-street parking is not allowed the Wolf Creek Road. Wolf Valley Road is signal-controlled at its intersection with Pechanga Parkway. Wolf Valley Road between Pechanga Parkway and Wolf Creek Drive is constructed with two left-turn lanes that would provide access into the Proposed Project.

Wolf Creek Drive is classified as a Two-Lane Collector on the City of Temecula's General Plan Circulation Element. Wolf Creek Drive is currently built as a two-lane undivided roadway with intermittent turn pockets. The posted speed limit varies between 25- 35 mph and on-street parking is generally prohibited. Wolf Creek Drive is signal-controlled at its intersection with Wolf Valley Road. The Proposed Project sites would have full access driveways from Wolf Creek Drive.

Pedestrian Facilities

The above-mentioned roadways are constructed with curbs, gutters, and sidewalks along both sides of the street. There are pedestrian crosswalks with Americans with Disabilities Act (ADA) compliant curb ramps at the intersections of Pechanga Parkway/Wolf Valley Road and Wolf Creek Drive/Wolf Valley Road.

Transit Facilities

The Riverside Transit Authority (RTA) provides bus service in Riverside County. Route 24 provides service near the Proposed Project and connects the Promenade Mall and Temecula Valley Hospital. It operates at a frequency of approximately 65 minutes on weekdays and weekends. The nearest bus stop for Route 24 is located along Pechanga Parkway, near its intersection with Wolf Valley Road adjacent to the Proposed Project.

2.0 Transportation Consistency Analysis

Following documents were reviewed to prepare the consistency analysis for the Proposed Project:

- Wolf Creek Specific Plan and Environmental Impact Report (August 2000)
- Pechanga Resort Hotel Expansion Traffic Impact Analysis (TIA) (June 2015) and the Year 2035 General Plan Daily Traffic Volumes included in the TIA.

2.1 Wolf Creek Specific Plan

The Specific Plan (City of Temecula, 2000) established land uses, zoning standards, and design guidelines to ensure orderly and high-quality development of the approximately 557 acres located at the southern end of the City. It included 24 planning areas (PA) and the Proposed Project is within PA-12- Neighborhood Commercial [(with 80,000 square feet or 80 thousand square feet (TSF)] (i.e., the north site, as shown on Figure 2) and PA-13 Community Commercial (with 120,000 square feet or 120 TSF) (i.e., the south site, as shown on Figure 2). Hence, a total of 200 TSF of commercial use was included and analyzed in the WCSP Environmental Impact Report (EIR) (August 2000). Relevant excerpts from the WCSP and EIR are included in Attachment A of this memorandum.

The results of the traffic analysis from the *Wolf Valley Ranch Traffic Impact Analysis (Revised)*, prepared by Robert Kahn, John Kain & Associates, December 17, 1998, were included in the Transportation and Circulation section of the WCSP EIR.

As shown in the excerpt from Transportation and Circulation section of the WCSP EIR (Table 11, Trip Generation with Schools) the trip generation for the two commercial sites was estimated to be 5,906 average daily trips (ADT) for the north site and 7,664 ADT for the south site, for a total of 13,570 ADT[1]. A total of 15 intersections were analyzed in the traffic analysis for Future Year 2002 and Future Year 2015 conditions with and without the WCSP Project. Based on the traffic analysis study following improvements and mitigation measures were recommended for the WCSP:

- The widening of the Pala Road Bridge crossing of Temecula Creek to 4 lanes (with an ultimate capacity of 6 lanes) – *This road bridge is currently constructed as a 6-lane roadway.*
- The widening of Pala Road (currently Pechanga Parkway) between Hazit's Market to SR79 to 4 lanes – *Pechanga Parkway is built as a Six-Lane Principal Arterial from SR-79 to south of Via Eduardo (which includes the segment between Hazit's and SR79), where it transitions to a Four-Lane Major Arterial, south of Pechanga Road.*
- The widening of SR79 (Temecula Parkway) from Pala Road to I-15 to 8 lanes, and from Avenida de Mission to Pala Road (currently Pechanga Parkway) to 6 lanes – *SR 79 or Temecula Parkway is constructed as 6 lane roadway between Avenida de Mission and Pechanga Parkway. However, widening of SR-79 to 8 lanes has not been implemented and there are no known plans available for it.*

As such all the regional and local roadway improvements to segments of Loma Linda Road, Wolf Valley Road and Wolf Creek Drive have been incorporated and constructed over the years per WCSP. However, even though the Proposed Project is consistent with the WCSP, it was not constructed within the time frame (i.e., Future Year 2015) analyzed in the plan and a lot of development has since occurred in the City. Therefore, a review of the traffic forecast and travel model results used in a traffic study prepared more recently in the City was conducted to ensure consistency of the Proposed Project.

[1] Total trip generation of 5,906 ADT (i.e. 73.2 trips per TSF X 80 TSF) and 7,664 ADT (i.e. 63.87 trips per TSF X 120 TSF) for a total of 13,570 ADT was included and analyzed in the WCSP EIR.

2.2 Temecula General Plan and Recent Traffic Volumes and Analysis

To show consistency of the Proposed Project with the current Temecula General Plan, the traffic forecast for horizon year 2035 included in a recent traffic study in the City was reviewed. The Pechanga Resort Hotel Expansion that was constructed a few years ago on the Pechanga Casino site located at the southwest corner of Pechanga Parkway/Wolf Valley Road intersection, just opposite the Proposed Project. The Pechanga Resort Hotel Expansion Traffic Impact Analysis (TIA), June 2015 prepared by LLG analyzed the critical roadway segments and intersections within the WCSP area and the City. The traffic study analyzed 19 intersections under Existing (Year 2015), Near-Term (Year 2019) and General Plan (Year 2035) with and without Project conditions. The traffic analysis included the planned local and regional improvements such as the SR-79 (Temecula Parkway)/I-15 freeway interchange[2] and the Western Bypass[3] project.

Table 1 summarizes the ADT volumes along Pechanga Parkway per traffic counts collected by the City of Temecula in the year 2019 and the estimated ADT in the Pechanga Resort Hotel Expansion TIA for the year 2019 and year 2035 traffic analysis. As shown in the table below, the ADT volumes along Pechanga Parkway in the year 2019 were lower compared to the traffic volumes analyzed in the TIA. Due to the COVID-19 pandemic restrictions most of urban and sub-urban area experienced non-typical traffic conditions in year 2020-2021 and traffic volume is returning to normal in second half of the year 2021. Therefore, year 2019 traffic volumes are generally considered representative of existing conditions for the purposes of traffic analysis. The year 2019 and 2035 traffic volumes reflect the growth in traffic anticipated from development of cumulative projects in the area along with ambient growth that would occur due to background growth in population and employment. Therefore, it can be concluded that the traffic volumes included in the recent analysis in the TIA accounted for growth in the area and provided a conservative analysis of both Year 2019 and Year 2035 conditions.

Table 1. Average Daily Traffic Volumes along Pechanga Parkway

Roadway Segment	ADT per City of Temecula[1]	ADT per Pechanga Resort Hotel Expansion TIA	ADT per Pechanga Resort Hotel Expansion TIA
Pechanga Parkway	Year 2019	Year 2019	Year 2035
south of Rainbow Valley Boulevard	44,270	47,701	53,251
north of Via Gilberto	33,290	37,965	39,855
south of Wolf Valley Road	31,240	34,842	35,662
north of Deer Hollow Way	15,680	17,387	22,807

Notes: ADT – Average Daily Traffic

[1] City of Temecula ADT accessed at Traffic-Count-Summary-PDF (temeculaca.gov).

[2] The freeway interchange improvements at SR-79 (Temecula Parkway) / I-15 are assumed to be completed by Year 2035. This project reconfigures the southbound ramps using a partial cloverleaf design for the southbound off-ramp, connecting to Temecula Parkway opposite Old Town Front Street. In addition, the project will improve the intersection at Temecula Parkway and the I-15 Northbound Ramps with additional turn lanes and an HOV on-ramp lane, retaining its existing diamond configuration.

[3] The Western Bypass project would construct a new road from the western terminus of Temecula Parkway to Vincent Moraga Drive, the road that leads directly to Diaz Road. This new road is intended to access potential new development in the vicinity and to relieve traffic on I-15 and Old Town Front Street.

The traffic analysis of the General Plan (Year 2035 conditions) identified significant direct and cumulative impacts to the following intersections and roadway segments:

- Pechanga Parkway/Wolf Valley Road
- SR-79/I-15 southbound ramps
- SR-79/La Paz Road
- SR-79/Margarita Road
- Roadway segments of SR-79 between Old Town Front Street to La Paz Road, and La Paz Road to Pechanga Parkway

Relevant excerpts from the traffic study are included in Attachment B of this memorandum.

It should be noted that the improvements at the Pechanga Parkway/Wolf Valley Road intersection have also been constructed and the intersection is forecast to operate acceptably under Near Term and General Plan Year 2035 condition. Although impacts to the SR-79/I-15 southbound ramps were considered significant and unavoidable in the TIA, the Pechanga Tribe contributed approximately $14 million in fees towards the programmed interchange improvements which have already been constructed. Widening of SR-79 to the standards of an eight-lane Expressway between I-15 and Pechanga Parkway has not been implemented and therefore, the roadway segment of SR-79 between Old Town Front Street and Pechanga Parkway and the intersections identified along it are not considered to be mitigated. The Proposed Project site is zoned as Community Commercial which generally includes a major store, detached restaurants, grocery and/or drugstores and Neighborhood Commercial which generally includes grocery store, drugstore, cleaners, beauty and barber shop, and fast-food services. These uses are considered local serving retail uses which would attract trips from existing residential areas within the WCSP and adjoining areas. Therefore, the Proposed Project would not add significant traffic to regional facilities such as SR 79 or I-15 and would not be a part of direct or cumulative impact to the intersections and roadway segments listed above.

3.0 Trip Generation Analysis

3.1 Project Trip Generation

To substantiate the project's traffic volumes with daily volumes included in the WCSP EIR described above, a trip generation analysis was prepared to compare the project's daily and peak hour traffic volumes with the traffic that would be generated from the currently designated retail/commercial uses. The trip generation analysis was conducted consistent with the Institute of Transportation Engineers' (ITE) *Trip Generation, 10th Edition* (2017). Trip reductions for pass-by trips pursuant to the *ITE Trip Generation Handbook, 3rd Edition* were applied to Proposed Project. Some of the trips generated by retail uses within the Proposed Project would be pass-by trips, or trips whose primary destination are not those uses. These would include trips such as a work-to-home trip that stops at a restaurant or retail on the way home from work. These trips would not be new trips generated by the project; rather, they are trips that are already on the roadway network that would make a stop at the project site. As mentioned above, the trips generated from the Proposed Project would be local (i.e. within the WCSP and adjoining Specific Plan areas) and are not likely to use the regional transportation facilities such as SR-79 and I-15 in the area.

Table 2. Project Trip Generation Summary

Land Use	Daily Trip Rate/Unit	AM Peak Hour			PM Peak Hour		
		In	Out	Total	In	Out	Total
Trip Rates[1]							
Shopping Center (ITE Code 820)	37.75/TSF	0.58	0.36	0.94	1.83	1.98	3.81
Trip Generation							
Land Use	**No. of Units**	**Daily**	**AM Peak Hour**			**PM Peak Hour**		
			In	Out	Total	In	Out	Total
Proposed Project	200 TSF	7,550	117	71	188	366	396	762
Retail pass-by trips[2]		*-1,284*	*-20*	*-12*	*-32*	*-124*	*-135*	*-259*
Trip Generation (w/ pass-by)		**6,266**	**97**	**59**	**156**	**242**	**261**	**503**

Notes: TSF – thousand square feet

[2] Trip rates from the Institute of Transportation Engineers, Trip Generation, 10th Edition, 2017.

[3] Pass-by trip rates from the ITE Trip Generation Handbook, 3rd Edition - Table E.9 provided for Shopping Center (820), Pass-by and Non-Pass-By Weekday, PM Peak Period (34%). AM and Daily pass-by reduction assumed to be half of the PM period.

Consistent with the WCSP, the Proposed Project would develop 200 TSF of commercial retail uses. The WCSP EIR included trip generation from PA-12 and PA-13 using the trip generation rates for small retail as 73.82 trips per TSF and large retail as 63.87 TS, respectively. However, the most recent and currently used ITE trip generation rate for commercial/retail use is Shopping Center ITE Code 820 which is 37.75 trips per TSF. As shown in Table 2, using the currently applicable trip rate for commercial/retail uses, the Proposed Project would generate 7,550 daily trips, 188 AM peak hour trips (117 inbound and 71 outbound), and 762 trips during the PM peak hour (366 inbound and 396 outbound). As shown in the Table 2, using pass by reduction, the Proposed Project would generate net new 6,266 daily trips, 156 AM peak hour trips (97 inbound and 59 outbound), and 503 trips during the PM peak hour (242 inbound and 261 outbound).

The daily trip generation from the Proposed Project (i.e., 6,266 daily trips) is significantly lower than the 13,570daily trips included in the traffic analysis conducted for the WCSP EIR. .Additionally, the trip generation from the Proposed Project site is included in the TIA for the Pechanga Resort Hotel Expansion as well as the General Plan Year 2035 conditions for the area. Therefore, if the development of the Proposed Project is within this daily trip threshold, no traffic impacts to the roadway facilities within the WCSP and the surrounding area are anticipated.

3.2 Construction Trip Generation

The construction trip generation of the Project was estimated using the construction phasing and schedule included in the Air Quality and Greenhouse Gas Emissions Report of the project, prepared by Dudek. The Project construction would include site preparation, grading, building construction, paving and architectural coating phases. None of the construction phases would overlap and the building construction phase would generate the peak number of workers and vendor truck trips. Table 2 provides a summary of worker and vendor trips associated with the peak phases of construction.

Table 2. Peak Construction Trip Generation Summary

Vehicle Type	Daily Quantity	Daily Trips	AM Peak Hour			PM Peak Hour		
			In	Out	Total	In	Out	Total
Trip Generation[1]								
Workers	125 workers	250	19	0	19	0	19	19
Vendor Trucks	53 trucks	106	7	7	14	7	7	14
	Total	**356**	**26**	**7**	**33**	**7**	**26**	**33**
Trip Generation w/PCE[1]								
Workers (1.0 PCE)[2]	125 workers	250	19	0	19	0	19	19
Vendor Trucks (2.0 PCE)[3]	53 trucks	212	14	14	28	14	14	28
	Total (w/PCE)	**462**	**33**	**14**	**47**	**14**	**33**	**47**

Source: Air Quality and GHG Report, Dudek
Notes: PCE = passenger car equivalent.
[1] Trips have been rounded to the nearest whole number; rounding errors may be present.
[2] PCE factor of 1.0 was utilized for worker passenger cars. The analysis assumes that approximately 15% of the construction workers will arrive during the AM peak hour and leave during the PM peak hour and each. Workers would generate two trips per day.
[3] PCE factor of 2.0 was utilized for vendor trucks. Vendor trucks are assumed to be distributed across the work shift. Each truck would generate two daily trips per day.

As shown in Table 4, the peak construction phase of the Project is expected to generate maximum number of trips, i.e., approximately 356 daily trips, with 33 AM peak-hour trips (26 inbound and 7 outbound), and 33 PM peak-hour trips (7 inbound and 26 outbound). With the application of passenger-car equivalence (PCE) factors to truck trips, the Proposed Project would generate 462 PCE daily trips, with 47 PCE trips during the AM peak hour (33 inbound and 14 outbound) and 47 PCE trips during the PM peak hour (14 inbound and 33 outbound). The construction trip generation would be significantly lower than the Proposed Project's operational trip generation shown in Table 2. Therefore, construction of the Proposed Project would not have a significant effect to the roadway facilities around it.

4.0 Findings and Recommendations

- The Proposed Action is the taking of approximately 20 acres of land contiguous to the Tribe's reservation (i.e., the Wolf Valley Property) into federal trust status for the Tribe to protect and restore Tribal homelands.
- Consistent with the Specific Plan, it is anticipated that the Proposed Project would result in development of approximately 200,000 square feet of leasable area designated for commercial uses and associated parking (approximately 1,100 parking spaces).
- Using the applicable trip rates for commercial/retail uses, the proposed project would generate 7,550 daily trips, 188 AM peak hour trips (117 inbound and 71 outbound), and 762 trips during the PM peak hour (366 inbound and 396 outbound). Using pass by reduction, the proposed project would generate net new 6,266 daily trips, 156 AM peak hour trips (97 inbound and 59 outbound), and 503 trips during the PM peak hour (242 inbound and 261 outbound). Local roadway improvements to segments of Loma Linda Road, Wolf Valley Road and Wolf Creek Drive have been incorporated and constructed over the years per WCSP. The Proposed Project site would generally include uses that are considered local serving retail uses which would attract trips from existing residential areas within the WCSP and adjoining areas. Therefore, the Proposed Project would not add significant traffic to regional facilities such as SR 79 or I-15 and would not be a part of direct or cumulative impact to those intersections and roadway segments.

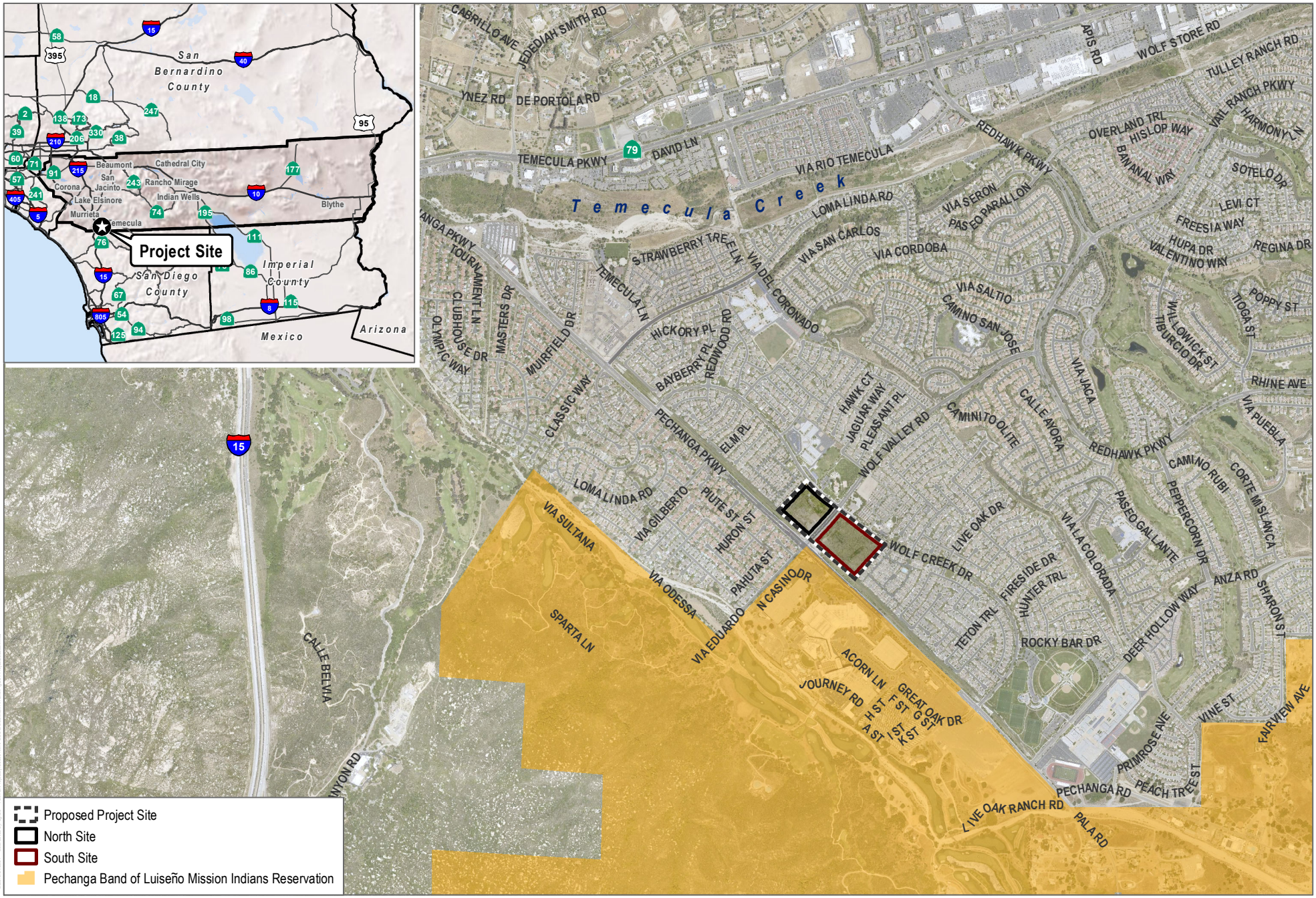
- Because the daily trip generation from the Proposed Project (i.e., 6,266 daily trips) is significantly lower than the 13,570 daily trips included in the traffic analysis conducted for the WCSP EIR and the local roadway improvements within the WCSP have already been completed, therefore, no traffic impacts to the roadway facilities within the WCSP and the surrounding area are anticipated.

5.0 References

City of Temecula. 2000. Wolf Creek Specific Plan. Specific Plan No. 12. August 2000

City of Temecula. 2005. Temecula General Plan. July 1, 2020. Accessed at https://temeculaca.gov/345/General-Plan

City of Temecula. 2019. Traffic-Count-Summary-PDF (temeculaca.gov)



SOURCE: Riverside County 2020, 2021

DUDEK

0 1,000 2,000 Feet

FIGURE 1

Project Location

Transportation Consistency Analysis for the Wolf Valley Property, Riverside County

SOURCE: Riverside County 2020, 2021

DUDEK

0 150 300 Feet

FIGURE 2

Existing Land Use Designations

Transportation Consistency Analysis for the Wolf Valley Property, Riverside County

Attachment A

Excerpts from Wolf Creek Specific Plan Environmental Impact Report

2.6 Transportation and Circulation

Background

A comprehensive traffic study was prepared to analyze the impacts of the proposed project on the surrounding road network. Study findings, analysis, and recommendations are summarized here. A complete copy of the study, titled *Wolf Valley Ranch Traffic Impact Analysis (Revised), Temecula, California,* December 17, 1998 and prepared by Robert Kahn, John Kain & Associates, is contained in the technical appendix to this EIR, copies of which are on file at City Hall.

The traffic analysis uses several technical terms requiring definition. First, the study describes traffic conditions at intersections in terms of Level of Service, or LOS. The LOS is ranked on a scale of A to F, with A representing free-flow traffic and F representing worst-case conditions. Table 8 provides descriptions for LOS A through F. Goal 1 of the Temecula General Plan Circulation Element provides that the City will "strive to maintain a LOS D or better at all intersections within the City during peak hours and LOS C or better during non-peak hours".

Table 8
Level of Service

LEVEL OF SERVICE	DESCRIPTION
A	LOS "A" represents free flow. Individual users are virtually unaffected by the presence of others in the traffic stream.
B	LOS "B" is in the range of stable flow, but the presence of other users in the traffic stream begins to be noticeable. Freedom to select desired speeds is relatively unaffected, but there is a slight decline in the freedom to maneuver.
C	LOS "C" is in the range of stable flow, but marks the beginning of the range of flow in which the operation of individual users becomes significantly affected by interactions with others in the traffic stream.
D	LOS "D" represents high-density but stable flow. Speed and freedom to maneuver are severely restricted, and the driver experiences a generally poor level of comfort and convenience.
E	LOS "E" represents operating conditions at or near the capacity level. All speeds are reduced to a low, but relatively uniform value. Small increases in flow will cause breakdowns in traffic movement.
F	LOS "F" is used to define forced or breakdown flow. This condition exists wherever the amount of traffic approaching a point exceeds the amount which can traverse the point. Queues form behind such locations.

Source: *Wolf Valley Ranch Traffic Impact Analysis (Revised), Temecula, California*, Robert Kahn, John Kain & Associates, December 17, 1998.

Also, the traffic analysis focuses on the peak travel periods when the most number of vehicles can be expected to be using the roadways. These peak periods are defined as the morning, or a.m. peak (7:00 to 9:00) and the evening, or p.m. peak (4:00 to 6:00). These are periods when residents are leaving for work and school (a.m.) and returning from work (p.m.).

Finally, the analysis focuses on traffic operating conditions at roadway intersections. Intersections represent points where vehicle (and pedestrian) traffic can be controlled to regulate flow.

For the purpose of long-term transportation planning, this analysis looks at worst-case traffic conditions associated with the project. Worst-case conditions assume that the three school sites shown on the land use plan are developed with schools instead of the alternative plan to develop the school sites with residential uses. The traffic engineer's initial analysis found that the proposed project with schools would generate approximately 42,036 trip ends per day, compared to 38,527 for the alternative involving no schools. Therefore, the alternative containing schools is considered the worst-case scenario and is analyzed in this section.

Existing Conditions

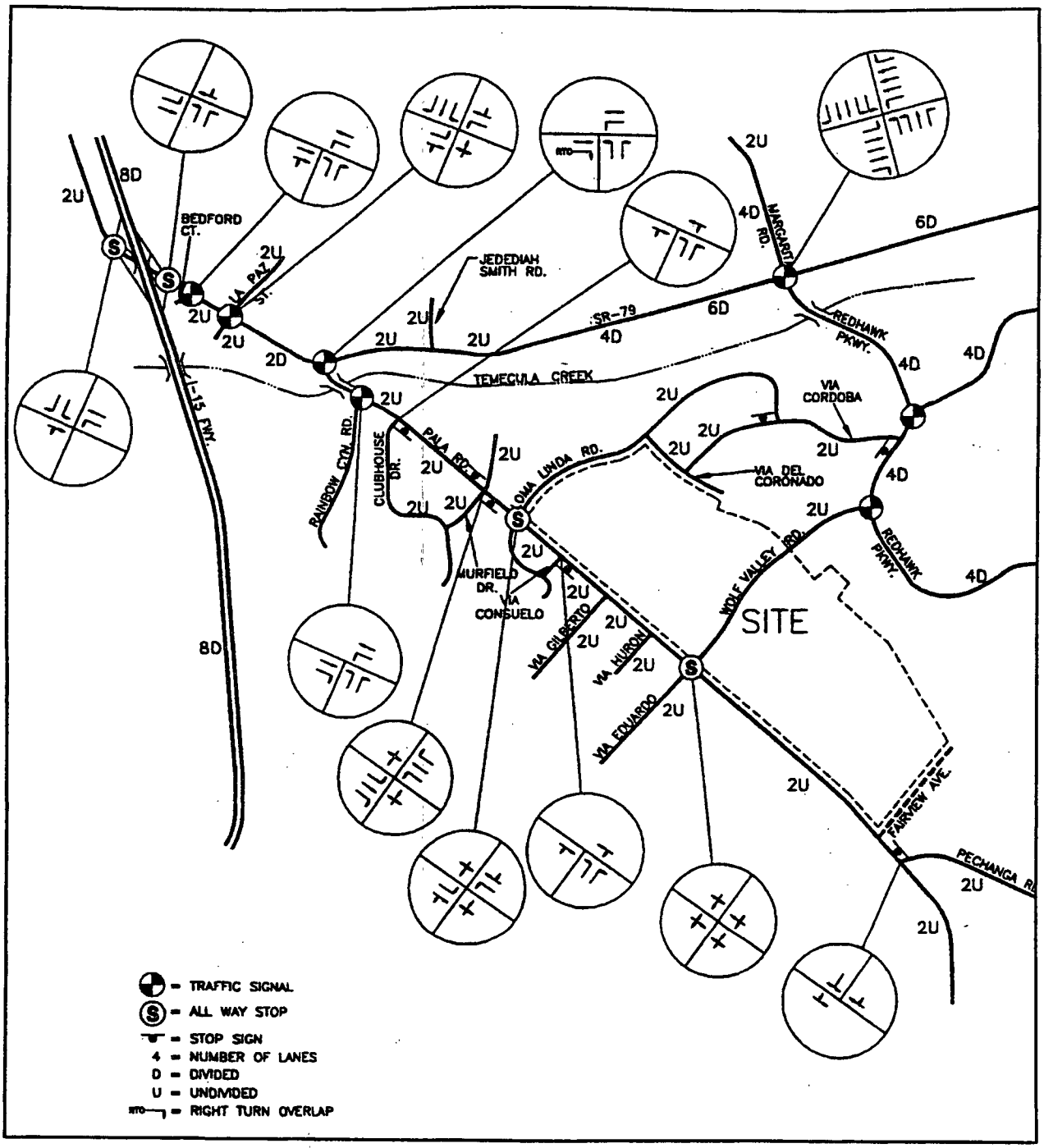
The Wolf Creek site fronts on Pala Road, approximately two miles east of the I-15 freeway. Pala Road is a two-lane undivided roadway. At the Temecula Creek crossing, Pala Road consists of a narrow two-lane bridge. Other roadways serving the site are shown on Figure 10. Access to the site is obtained from Pala Road, Loma Linda Road, and Wolf Valley Road. All roads in the project vicinity consist of two-lane undivided roadways.

The City's General Plan Circulation Element provides for several of the regional roadways to be widened to meet long-term growth needs. The City of Temecula is in the process of updating the City's Circulation Element, which may include additional changes. The existing Circulation Element designates Pala Road as a six-lane urban arterial from State Route 79 South (SR 79S) to approximately Loma Linda Road, where it will transition to a four-lane arterial. Wolf Valley Road, which traverses the project site, and Fairview Avenue are shown in the Circulation Element as four-lane secondary roadways (Figure 11).

Existing Roadway Volumes

To identify existing roadway conditions and service levels in the project vicinity, a.m. and p.m. peak period traffic counts were obtained at the following intersections:

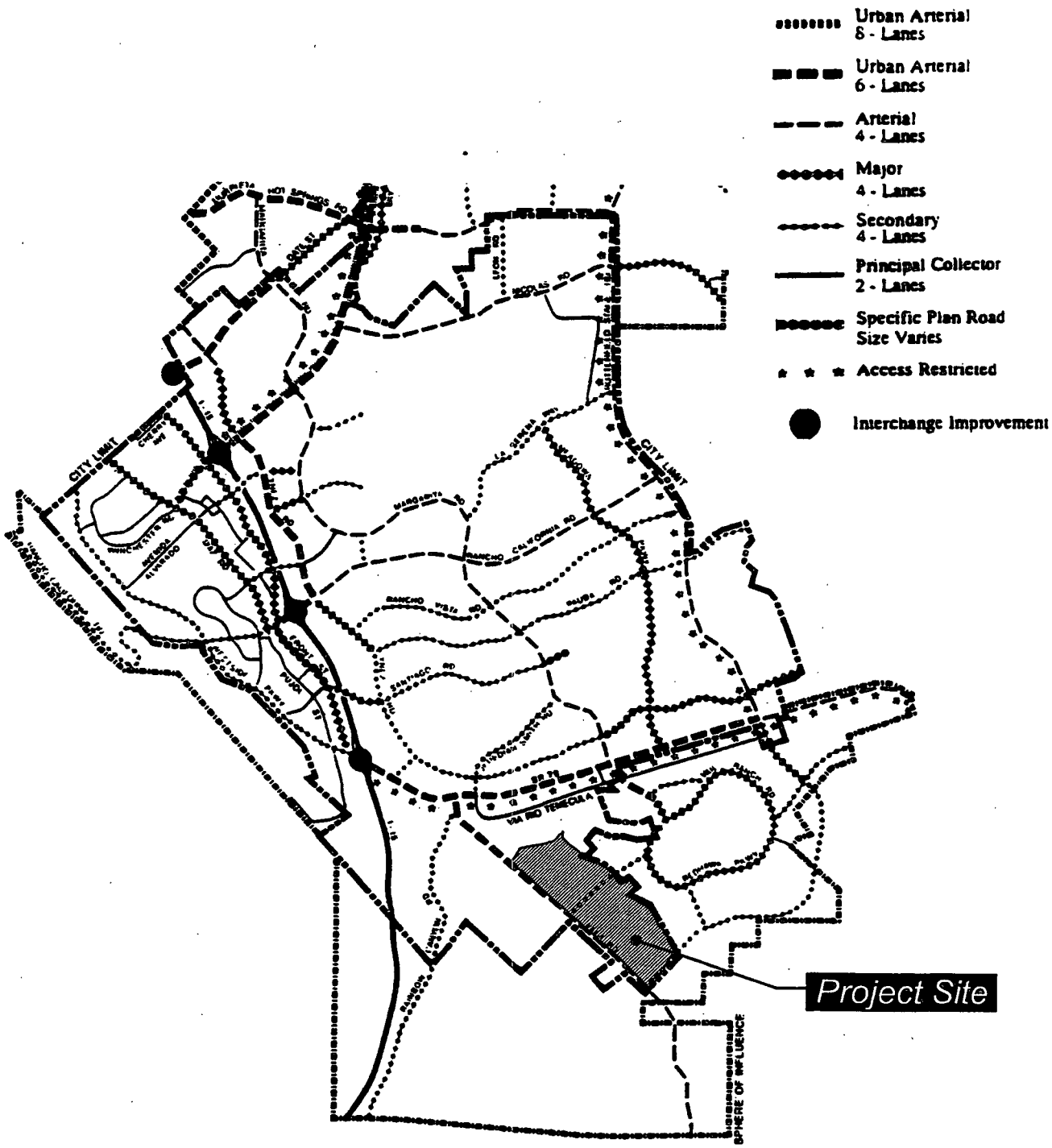
- I-15 southbound ramp at SR 79S
- I-15 northbound ramp at SR 79S
- Bedford Court at SR 79S
- La Paz Street at SR 79S
- Pala Road and SR 79S



SOURCE: Wolf Valley Ranch Traffic Impact Analysis, (revised) Temecula, California Robert Kahn, John Kain & Associates, December 17, 1998

north not to scale

Figure 10
Existing Roadways



SOURCE: Temecula General Plan, April 1994

north no scale

Figure 11
General Plan Roadways-Southern Section of Temecula

- Pala Road and Rainbow Canyon Road
- Pala Road and Clubhouse Drive
- Pala Road and Murfield Drive
- Pala Road and Loma Linda Road
- Pala Road and Via Consuelo
- Pala Road and Wolf Valley Road
- Pala Road and the proposed Interior Loop Road
- Pala Road and Fairview Avenue
- Pala Road and Pechanga Road
- Margarita Road at SR 79S

Table 9 reports the existing LOS conditions for the a.m. and p.m. peaks at these intersections. As Table 9 indicates, several intersections currently experience extremely poor operating conditions (LOS E and F) during both the a.m. and p.m. peak periods. Currently, the intersections of SR 79S and Pala Road, La Paz, and Margarita Road are signalized. Problematic locations include the north- and southbound ramps to the I-15 freeway at SR 79S; Bedford Court at SR 79S; and Pala Road at Loma Linda Road.

Table 9
Existing Intersection Conditions

Intersection	Traffic Control	Level of Service a.m. peak	Level of Service p.m. peak
I-15 SB ramps at SR 79S	AWS	F	F
I-15 NB ramps at SR 79S	AWS	F	F
Bedford Court at SR 79S	TS	E	F
La Paz St/SR 79S	TS	D	F
Pala Rd/SR 79S	TS	C	D
Pala Rd/Rainbow Cyn Rd	TS	B	C
Pala Rd/Clubhouse Dr	CSS	A	A
Pala Rd/Murfield Dr	CSS	A	A
Pala Rd/Loma Linda Rd	AWS	F	F
Pala Rd/Via Consuelo	CSS	A	A
Pala Rd/Wolf Valley Rd	AWS	B	C
Pala Rd/Pechanga Rd	CSS	A	A
Margarita Rd/SR 79S	TS	C	C

Abbreviations: AWS=all way stop; CSS=cross street stop
Source: *Wolf Valley Ranch Traffic Impact Analysis, (Revised) Temecula, California*, Robert Kahn, John Kain & Associates, December 17, 1998.

As noted in the Project Description section of this EIR, several regional roadway improvements are currently underway and may be completed prior to initiation of any construction activity on the Wolf Creek site, including:

- The widening of the Pala Road Bridge crossing of Temecula Creek to 4 lanes (with a ultimate capacity of 6 lanes);
- The widening of Pala Road between Hazit's Market to SR 79S to 4 lanes; and
- The widening of SR79S from Pala Road to I-15 to 8 lanes, and from Avenida de Mission to Pala Road to 6 lanes.

Threshold for Determining Significance

A significant impact is expected to occur if the project would "cause an increase in traffic which is substantial in relation to the existing traffic load and capacity of the street system." Goal 1 in the City's General Plan Circulation Element indicates that the City will "strive to maintain a LOS D or better at all intersections within the City during peak hours and LOS C or better during non-peak hours."

Environmental Impacts

This section identifies project impacts on the circulation system both before and after planned roadway improvements. The methodology involves estimating the number of peak-hour trips generated by the project, distributing those trips to the local and regional road networks, projecting future traffic generation of other projects in the region that will contribute to future traffic volumes, and assessing future traffic volumes and conditions both without and with Wolf Creek traffic.

For the purpose of this analysis, the year 2002 is assumed to be the first year that Wolf Creek will contribute to traffic volumes, with the year 2015 assumed to be the buildout year.

Trip Generation

Trip generation is the amount of traffic attracted to and produced by a new development. Trip generation is calculated based upon the specific land uses within a development. For the Wolf Creek Specific Plan, the traffic generation factors shown in Table 10 were used to estimate the future average daily, a.m. peak, and p.m. peak traffic volumes generated by the project under the worst-case scenario (development of the school sites with schools). As shown in Table 11, such new development is projected to generate approximately 42,036 trip ends per day, with 3,523 vehicles per hour during the a.m. peak and 4,088 vehicles per hour during the p.m. peak.

Table 10
Trip Generation Rates

Land Use	Unit	Peak Hour				Daily
		a.m.		p.m.		
		in	out	in	out	
Single-family Residential	du	0.19	0.56	0.65	0.36	9.57
Multi-family Residential	du	0.09	0.38	0.38	0.20	6.59
Elementary School	student	0.17	0.12	0.01	0.01	1.02
Middle School	student	0.26	0.20	0.08	0.08	1.45
High School	student	0.32	0.14	0.06	0.09	1.79
Library	ksf	0.76	0.30	3.40	3.69	54.00
Commercial						
Small Retail (80 ksf)	ksf	1.07	.68	3.25	3.52	73.82
Large Retail (120 ksf)	ksf	0.91	.58	2.83	3.07	63.87
Parks	ac	1.00	1.00	2.00	2.00	50.00

Table 11
Trip Generation with Schools

Traffic Zone	Land Use	Peak Hour				Daily
		a.m.		p.m.		
		in	out	in	out	
1	High School	672	294	126	189	3,759
2	Single-family Residential	61	180	209	116	3,072
	Multi-family Residential	23	97	97	51	1,687
	Commercial Retail	109	70	340	368	7,664
	Park	5	5	9	9	225
3	Single-family Residential	49	145	168	93	2,479
	Commercial Retail	86	54	260	282	5,906
4	Single-family Residential	23	67	78	43	1,148
5	Single-family Residential	129	381	443	245	6,517
	Library	23	9	102	111	1,620
6	Single-family Residential	77	227	263	146	3,876
	Multi-family Residential	18	76	76	40	1,318
	Elementary School	105	74	6	6	627
	Middle School	244	188	75	75	1,363
	Park	16	16	31	31	775
TOTAL		1,640	1,883	2,283	1,805	42,036

Abbreviations: du=dwelling unit; ksf=thousand square feet; ac=acre

Source: *Wolf Valley Ranch Traffic Impact Analysis (Revised)*, Temecula, California. Robert Kahn, John Kain & Associates, December 17, 1998.

Trip Distribution and Assignment

Project traffic was distributed to the regional road system based upon existing travel patterns and anticipated patterns, assuming completion of the road network shown on the General Plan Circulation Plan. Detailed trip assignment information is contained in the traffic study in the EIR technical appendix.

Other Traffic

To provide a complete picture of future traffic conditions, the traffic engineer projected future volumes, including new trips expected to be generated by the Pechanga Casino and estimated future background traffic volumes for the years 2002 and 2015. The 2002 figure assumes a 9 percent annual growth rate (based on past trends) over a 4-year period (1998-2002). For year 2015, volumes were derived using the City of Temecula subregional travel demand model.

Future Traffic Conditions Without Project - Year 2002

The traffic study examined future traffic conditions at the 13 study intersections cited above and at 2 new intersections expected to be created by 2002. The analysis found that **without** Wolf Creek traffic, and assuming no roadway improvements beyond current conditions, the following intersections will operate at LOS E or F during peak periods, without improvements:

- I-15 northbound and southbound ramps at SR 79S (LOS F in a.m. and p.m.),
- Bedford Court at SR 79S (LOS F in a.m. and p.m.),
- La Paz Street at SR 79S (LOS F in a.m. and p.m.),
- Pala Road at Rainbow Canyon Road (LOS F in p.m. peak),
- Pala Road at SR 79S and Loma Linda Road (LOS F in a.m. and p.m.),
- Pala Road at Clubhouse Drive (LOS F in p.m.),
- Pala Road at Loma Linda Road (LOS F in a.m. and p.m.), and
- Pala Road at Wolf Valley Road (LOS F in p.m.).

All other study intersections will experience operating conditions of LOS D or better without improvements.

If future physical roadway improvements (pursuant to existing plans) include installation of traffic signals at the I-15 ramps and at Pala Road at Murfield Drive, Loma Linda Road, and Wolf Valley Road, and additional turn or through lanes existing at the I-15 ramps, Bedford Court at SR 79S, La Paz at SR 79S, and Pala Road at SR 79S, all impacted intersections will operate at LOS D or better during peak periods.

Future Conditions with Project - Year 2002

If Wolf Creek traffic is added to future traffic volumes, those intersections listed above will be further impacted by project-related traffic. Also, assuming no improvements, the following additional intersections will experience a decline in LOS:

- Pala Road at Rainbow Canyon Road, to LOS D in the p.m.,
- Pala Road at Clubhouse Drive, to LOS F in the p.m.,
- Pala Road at Murfield Drive, to LOS F in the a.m. and LOS F in p.m., and
- Pala Road at Wolf Valley Road to LOS F in the a.m.

In the absence of any roadway improvements, project traffic impacts will be significant.

The planned traffic improvements described above, combined with a traffic signal at Pala Road and Via Consuelo and additional turn and through lanes at Pala Road and Via Consuelo will improve all intersections to LOS D or better during peak periods, thereby reducing year 2002 impacts to less-than-significant levels.

Future Traffic Conditions Without Project - Year 2015

The traffic study assumed that over the long term, regional roadway improvements would be completed by 2015. These improvements include installation of traffic signals at the I-15 north- and southbound ramps, and Pala Road at Clubhouse Drive, Murfield Drive, Loma Linda Road, Via Consuelo, Wolf Valley Road, and Fairview Avenue. Other improvements include provision of additional turn or through lanes at the I-15 ramps, Bedford Court at SR 79S, and La Paz at SR 79S, and all Pala Road study intersections except at Pala Road at Pechanga Road, and Margarita Road at SR 79S.

With these improvements, consistent with General Plan policy, all study intersections will operate at LOS D or better during the peak periods **without** Wolf Creek traffic (Table 12).

Table 12
Future Traffic Conditions
Without and With the Project

Intersection	Traffic Control[1]	Level of Service without Project		Level of Service with Project	
		a.m.	p.m.	a.m.	p.m.
I-15 Fwy. SB Ramps at SR 79S	TS	C	D	D	D
I-15 Fwy. NB Ramps at SR 79S	TS	B	C	B	C
Bedford Court at SR 79S	TS	B	B	C	C
La Paz St. SR 79S	TS	C	C	C	D
Pala Rd. at:					
SR-79	TS	C	C	D	D
Rainbow Cyn. Rd.	TS	B	B	B	C
Clubhouse Dr.	TS	B	A	B	C
Murfield Dr.	TS	B	A	B	C
Loma Linda Rd.	TS	C	B	C	C
Via Consuelo	TS	A	A	B	C
Wolf Valley Rd.	TS	B	B	B	D
Interior Loop Rd.	TS	-	-	B	B
Fairview Ave.	TS	B	B	B	B
Pechanga Rd.	CSS	A	A	A	A
Margarita Rd. at SR 79	TS	D	D	D	D

1. TS = Traffic Signal
CSS = Cross Street Stop

Source: *Wolf Valley Ranch Traffic Impact Analysis (Revised)*, Temecula, California, Robert Kahn, John Kain & Associates, December 17, 1998.

Future Conditions with Project - Year 2015

The traffic volumes to be generated by the Wolf Creek project were added to the background volumes for year 2015 to determine project impacts in the long term. The analysis assumed that in addition to the traffic improvements described above, a traffic signal at Pala Road and Interior Loop Road and additional turn or through lanes at Pala Road and Via Consuelo, Interior Loop Road, Wolf Valley Road, and Fairview Avenue will be completed. All intersections will continue to operate at LOS D or better during peak periods (Table 12). However, the project traffic will result in a slight LOS decline at the following locations:

- Bedford Court at SR 79S to LOS C in the a.m. and p.m.,
- La Paz Street to LOS C in the p.m.,
- Pala Road and SR 79S to LOS C in the a.m. and p.m.,
- Pala Road and Rainbow Canyon Road to LOS C in the p.m.,
- Pala Road and Clubhouse Drive to LOS C in the p.m.,
- Pala Road and Murfield Drive to LOS C in the p.m.,
- Pala Road and Loma Linda Road to LOS C in the p.m.,
- Pala Road and Via Consuelo to LOS B in the a.m. and LOS C in the p.m., and
- Pala Road and Wolf Valley Road to LOS D in the p.m.

The slight declines in service levels resulting from the project at buildout are not significant. All intersections will operate at or better than the City's peak hour level of service goal of "LOS D or better," assuming installation of all improvements outlined above. Thus, at project build out, impact will be less than significant.

Pala Road Bridge

Currently, the portion of Pala Road at the Temecula Creek bridge is carrying approximately 16,300 vehicles per day (ADT). This two-lane, undivided collector street has a traffic carrying capacity of approximately 14,000 to 15,000 vehicles per day at LOS D according to City of Temecula standards.

Improvements to the bridge are included in the City's Capital Improvement Plan, which coordinates the financing and scheduling of major public projects. The Temecula Creek bridge program is approved and entirely funded, and construction improvements have begun. Bridge improvements will be paid by Assessment District No. 159, the Bureau of Indian Affairs, and the City. The reconstructed bridge will be completed and striped as a four-lane arterial by the year 2002 (project completion), with the capacity for six lanes by the year 2015.

According to City of Temecula standards, an Arterial Highway (4-lane divided) can have a traffic carrying capacity of approximately 34,000 to 45,000+ vehicles per day at LOS D. As shown in Table 13, the portion of Pala Road at the Temecula Creek bridge crossing is projected to be approximately 26,100 vehicles per day in 2002 traffic conditions with areawide growth for 4

years, and the entire project (that is, 2,601 residential units and 20 acres of commercial development). This is within the LOS D capacities for an Arterial Highway (4-lane divided).

Table 13 depicts the ADTs and capacities for the portion of Pala Road at the Temecula Creek bridge crossing. As shown in Table 13, the Pala Road section is projected to operate within LOS D with the project after the year 2015.

Table 13
Pala Road Bridge Traffic Analysis

Conditions	Improvements	Traffic Volume (ADT)	Los D Capacity
Existing	2 lanes undivided (Collector)	16,300	14,000 - 15,000
Year 2002 Without Wolf Valley Ranch Traffic	4 lanes divided (Arterial)	23,000	34,000 - 45,000+
Year 2002 With Wolf Valley Ranch Traffic	4 lanes divided (Arterial)	26,100	34,000 - 45,000+
Post 2015 Without Wolf Valley Ranch Traffic	6 lanes divided (Modified Urban Arterial)	39,700	53,000 - 70,000+
Post 2015 With Wolf Valley Ranch Traffic	6 lanes divided (Modified Urban Arterial)	58,400	53,000 - 70,000+

Source: *Wolf Valley Ranch Traffic Impact Analysis (Revised)*, Robert Kahn, John Kain & Associates, December 17, 1998.

Traffic Signals

The City's traffic signal program includes the addition of traffic signals at Pala Road and Loma Linda, and Pala Road and Wolf Valley Road. Traffic signals at these two locations have been approved and are entirely funded through the City's Development Impact Fee program. Installation of these traffic signals are scheduled for fiscal year 1999-2000 (by November of 2000).

Other Traffic Considerations

No building permits for the Wolf Creek project will be permitted to proceed until the following ongoing and planned improvement have been completed:

- Pala Road Bridge widening,
- Interim interchange improvements at I-15/SR 79S,
- Widening of SR 79S between Pala Road and I-15, and
- Widening of Pala Road to 4 lanes between Clubhouse Drive and Loma Linda Road.

As indicated above, the City is currently updating the General Plan Circulation Element. That portion of Loma Linda Road adjacent to the project site may be designated as a 78-foot right-of-way road section. The City may require this improvement as part of the project conditions of approval.

Summary of Traffic Impacts

Assuming that roadway and intersection improvements are implemented as planned over the short and long terms, project impacts in the year 2002 and in the long term (year 2015) will be less than significant.

Mitigation Measures

On-site Improvements

The traffic study indicates that the following on-site roadway improvements must be incorporated into the project to reduce impacts to acceptable levels:

1. In conjunction with project development, Pala Road from 300 feet south of Loma Linda Road to Fairview Avenue will be constructed at its ultimate half-section width as an Arterial Highway (110-foot right-of-way). Pala Road should be improved at a half-section width as an Urban Arterial Highway (134-foot right-of-way) from Loma Linda Road to a point 300 feet south of the Loma Linda intersection, and then transition to the Arterial Highway section. A 14-foot-wide landscaped median shall be constructed in accordance with City standards.

2. In conjunction with project development, Wolf Valley Road from Pala Road to the eastern project boundary will be constructed at its ultimate cross-section width as a Secondary Highway (88-foot right-of-way) in conjunction with adjacent development.

3. In conjunction with project development, construct Loma Linda Road from Pala Road to Via Del Coronado to its ultimate half-section width as a Collector (66-foot right-of-way) in conjunction with adjacent development, or a 78-foot roadway if the Circulation Element Update of the General Plan is approved.

4. In conjunction with project development, Fairview Avenue from Pala Road to the eastern project boundary will be constructed at its ultimate half-section width as a Secondary Highway (88-foot right-of-way).

5. Site distance at each entrance to the project shall be reviewed with respect to standard Caltrans/City of Temecula sight-distance standards at the time of preparation of tentative maps.

Off-site Improvements

The traffic study and Circulation Element Update of the General Plan indicate that the following off-site roadway improvements must be accomplished to reduce impacts to acceptable levels:

6. Property owner(s) within the project area, or the developer(s), shall contribute to the construction of the Pala Road bridge crossing of Temecula Creek on a fair-share basis through Assessment District No. 159.

7. Prior to the issuance of the first building permit for the Wolf Creek Specific Plan, the Pala Road bridge crossing of Temecula Creek shall be constructed to accommodate four travel lanes, consistent with plans approved by the City of Temecula. At the time of tentative subdivision map approval or commercial development plan approval, traffic volumes at the Pala Road bridge shall be monitored and approval may be subject to confirmation of available bridge-carrying capacity.

8. Prior to issuance of the first building permit, the following improvements shall have been completed to the satisfaction of the City:

   - Interim interchange improvements at I-15/SR 79S,
   - Widening of SR 79S between Pala Road and I-15, and
   - Widening of Pala Road to 4 lanes from Clubhouse Drive to Loma Linda Road.

9. The developer(s) shall design and install traffic signals for project-impacted intersections when warranted, as determined by the Department of Public Works.

Transportation System Management Actions

10. To accommodate transit services within the specific plan, bus turnouts shall be provided at locations designated by Riverside Transit Agency or the City of Temecula Department of Public Works. Safe pedestrian access to and from the bus turnout shall be provided.

Additional Measures

11. Subsequent focused traffic studies may be required as the project develops to identify actual future conditions and to determine whether additional improvements are required of the project to meet City LOS objectives.

12. Phased on-site street improvements will be identified and prioritized at the subdivision map stage.

Level of Significance After Mitigation

After mitigation at the local and regional levels, all intersections will operate at LOS D or better during peak hours. Therefore, impact will be less than significant.

NOTES AND REFERENCES:

1. *Wolf Valley Ranch Traffic Impact Analysis (Revised), Temecula, California.* Robert Kahn, John Kain and Associates. December 17, 1998.

2. Letter to Camille Bahri, Spring Pacific Properties, from Ali Moghadam, Temecula Senior Engineer. March 25, 1999.

RKJK
& ASSOCIATES INC.

September 25, 2000

Mr. Camille Bahri
SPRING PACIFIC PROPERTIES
10630 Town Center Drive, Suite 129
Rancho Cucamonga, CA 91730

Subject: Wolf Creek Revised Land Use Plan

Dear Mr. Bahri:

The firm of RKJK & ASSOCIATES, INC. (RKJK) is pleased to provide this trip generation comparison of the original DEIR (draft environmental impact report) land use plan with the revised land use plan, which is currently being processed through the City of Temecula. The revised land use plan eliminates the high school site and incorporates a regional park within the development. This change in land use along with other changes to residential development has significantly reduced the trip generation from the proposed project.

RKJK has assumed that the 40-acre regional park, would include a sports complex within the Wolf Creek development. The trip generation rates utilized for the regional park are significantly greater than standard city parks and reflect high intensity use of the sport complex. Trip generation rates for the regional park have been obtained from the San Diego Association of Governments and have been applied to weekday conditions. This is a conservative assumption, since the peak park usage will occur on weekends, when normal am/pm peak hour traffic is substantially less than during weekedays. Even considering the higher generation uses within the sports complex, elimination of the high school and changes to the residentia development have significantly reduced the trip generation of the project.

The trip generation rates utilized in the DEIR for the revised land use plan are shown in Table 1. These rates have been developed based upon data collected by the Institute of Transportation Engineers (ITE) and the San Diego Association of Governments. The buildout project trip generation utilized in the DEIR is shown in Table 2. This includes the trip generation anticipated for the previous high school use for the proposed regional park. The DEIR land uses would have generated 42,036 trip ends per day with 3,523 vehicles per hour during the AM peak hour and 4,088 vehicles per hour during the PM peak hour. The land use and trip generation characteristics for the DEIR land uses are shown in Table 2.

RKJK has assumed a very conservative trip generation rate for the regional park (50 trip-ends per day per acre). This reflects a high intensity use such as a sports complex with substantial amount of activity. Trip generation for typical city/county parks would be substantially less (less than 5 trip-ends per day per acre) than was assumed in this trip generation comparison. It is not anticipated that the replacement of the high school would have any negative impacts upon peak hour traffic conditions, which were used to determine the appropriate roadway improvements needed in that area.

It is standard traffic engineering practice to design roadway improvements (intersections and roadway segments) based upon typical weekday AM or PM peak hour conditions. RKJK has made a conservative assumption of traffic impacts for weekday conditions by utilizing the higher (Saturday) trip generation for the regional park for the trip generation comparison. It would be expected that during weekdays this would be somewhat less than weekends; however, the higher rate has been considered for purposes of the trip generation comparison. As noted above, roadway requirements are determined based upon typical weekday trip generation characteristics, which have been utilized in this traffic study and the City's circulation element.

The trip generation for the revised project currently being processed through the City of Temecula are shown in Table 3. The revised land uses would generate 36,413 trip ends per day with 2,486 vehicles per hour during the AM peak hour and 3,509 vehicles per hour during the PM peak hour. The land use and trip generation characteristics for the revised land uses are shown in Table 3.

The revised land use plan for the Wolf Creek development generates significantly fewer daily and AM/PM peak hour trips than the project, which was reviewed in the DEIR. Table 4 provides a trip generation comparison between the revised land uses and the plan analyzed in the DEIR. The proposed plan would generate 5,623 trip ends per day less than the land use plan analyzed in the DEIR. Furthermore, the revised plan would generate 987 vehicles per hour less during the AM peak hour and 579 vehicles per hour less during the PM peak hour than the plan analyzed in the DEIR. As shown in Table 4, the revised land use plan for Wolf Creek would generate significantly fewer trips than analyzed in the DEIR.

RKJK appreciates this opportunity to provide this additional information with respect to the trip generation characteristics of the revised land use plan for Wolf Creek. If you have any questions regarding this or need further review, please call us at (949) 474-0809.

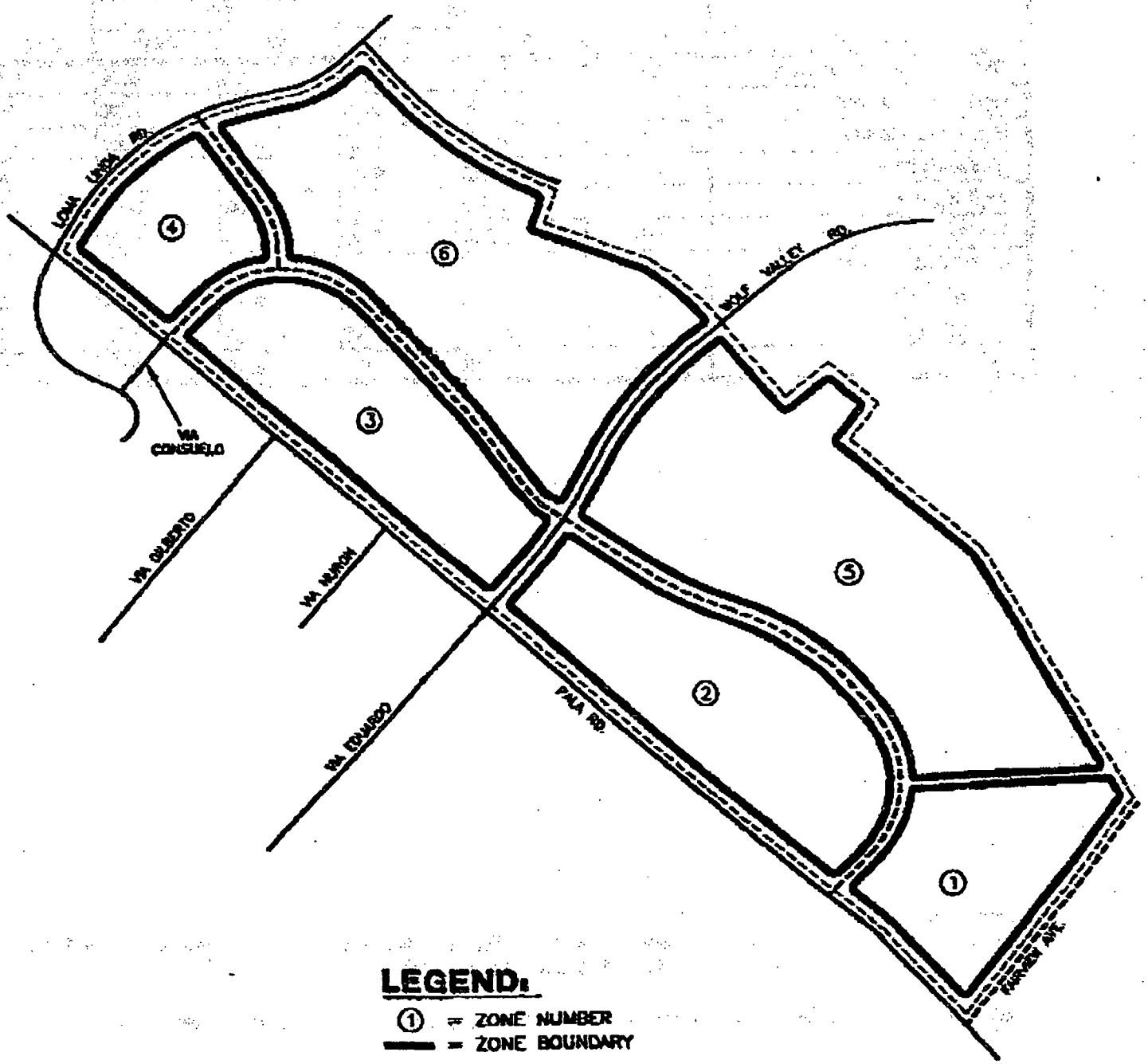
Sincerely,

RKJK & ASSOCIATES, INC.

Robert Kahn, P.E.
Principal

RK:wg/11391
JN:1065-98-02
Attachments

EXHIBIT B
PROJECT ZONE MAP



LEGEND:

① = ZONE NUMBER

▬▬ = ZONE BOUNDARY

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WOLF VALLEY RANCH, Temecula, California

RKJK

TABLE 1

TRIP GENERATION RATES[1]

LAND USE	UNITS[2]	PEAK HOUR				DAILY
		AM		PM		
		IN	OUT	IN	OUT	
Single-Family Residential	DU	0.19	0.56	0.65	0.36	9.57
Multi-Family Residential	DU	0.09	0.38	0.38	0.20	6.59
Elementary School	ST	0.17	0.12	0.01	0.01	1.02
Middle School	ST	0.26	0.20	0.08	0.08	1.45
High School	ST	0.32	0.14	0.06	0.09	1.79
Library	TSF	0.76	0.30	3.40	3.69	54.00
Commercial Retail						
• 80.0 TSF	TSF	1.07	0.68	3.25	3.52	73.82
• 120.0 TSF	TSF	0.91	0.58	2.83	3.07	63.87
Park	AC	1.00	1.00	2.00	2.00	50.00

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[1] Source: Institute of Transportation Engineers (ITE), Trip Generation, Sixth Edition, 1997, Land Use Categories 210, 221, 520, 522, 530, 590 and 820.

Source: San Diego Association of Governments (SANDAG), Trip Generators, July, 1998.

[2] DU = dwelling units
ST = students
TSF = thousand square feet
AC = acre

[illegible]
JN:1065-98-02

TABLE 2

DEIR BUILDOUT PROJECT TRIP GENERATION

TAZ[1]	LAND USE	QUANTITY	PEAK HOUR AM IN	PEAK HOUR AM OUT	PEAK HOUR PM IN	PEAK HOUR PM OUT	DAILY
1	High School	2100 ST	672	294	126	189	3,759
2	Single-Family Residential	321 DU	61	180	209	116	3,072
	Multi-Family Residential	256 DU	23	97	97	51	1,687
	Commercial Retail	120.0 TSF	109	70	340	388	7,684
	Park	4.5 AC	5	5	9	9	225
3	Single-Family Residential	259 DU	49	145	168	93	2,479
	Commercial Retail	80.0 TSF	86	54	260	282	5906
4	Single-Family Residential	120 DU	23	67	78	43	1,148
5	Single-Family Residential	681	129	381	443	245	6,517
	Library	30.0 TSF	23	9	102	111	1620
6	Single-Family Residential	405 DU	77	227	263	146	3876
	Multi-Family Residential	200 DU	18	76	76	40	1318
	Elementary School	615 ST	105	74	8	8	627
	Middle School	940 ST	244	188	75	75	1363
	Park	15.5 AC	16	16	31	31	775
TOTAL			1,640	1,883	2,283	1,805	42,036

[1] TAZ = Traffic Analysis Zone

[illegible]
JN:1065-98-02

TABLE 3

REVISED PROJECT BUILDOUT TRIP GENERATION

TAZ[1]	LAND USE CATEGORY	QUANTITY[2]	PEAK-HOUR AM IN	PEAK-HOUR AM OUT	PEAK-HOUR PM IN	PEAK-HOUR PM OUT	DAILY
1	Reg. Park	40 AC	40	40	80	80	2,000
2	Single-Family Residential	272 DU	52	152	177	98	2,603
	Multi-Family Residential	310 DU	28	118	118	62	2,043
	Commercial Retail	120.0 TSF	109	70	340	368	7,664
3	Single-Family Residential	191 DU	36	107	124	69	1,828
	Commercial Retail	80.0 TSF	86	54	260	282	5,906
4	Single-Family Residential	121 DU	23	68	79	44	1,158
5	Single-Family Residential	738 DU	140	413	480	288	7,063
	Fire Station/Rec. Ctr.	5.0 TSF	—	—	—	—	—
6	Single-Family Residential	390 DU	74	218	254	140	3,732
	Elementary School	738 ST	125	89	7	7	783
	Middle School	940 ST	244	188	75	75	1,363
	Park	6 AC	6	6	12	12	300
TOTAL			963	1,523	2,006	1,503	36,413

[1] TAZ = Traffic Analysis Zone

[2] AC = Acres
DU = Dwelling Units
TSF = Thousand Square Feet
ST = Students

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TABLE 4

TRIP GENERATION COMPARISON

LAND USE PLAN	PEAK HOUR				DAILY
	AM		PM		
	IN	OUT	IN	OUT	
DEIR Plan	1,640	1,833	2,283	1,805	42,036
Revised Plan	963	1,523	2,006	1,503	36,413
Differences	-677	-310	-277	-302	-5,623
% Reduction from DEIR Plan (%)	-41.3	-16.4	-12.1	-16.7	-13.4

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Wolf Creek Specific Plan Mitigation Monitoring Matrix

Impact	Mitigation Measures	Time Frame/ Monitoring Milestones	Responsible Monitoring Part
Transportation and Circulation			
Assuming that roadway and intersection improvements in the area are implemented as planned over the short-term and long-terms, project impacts in the year 2002 and in the long term (year 2015) will be less than significant. The project traffic study indicates that specific roadway improvements will be required of the developer to mitigate impact directly attributable to the project. These measures, which will become project conditions of approval, are indicated here as measures 1-10. As a standard requirement, the developer will pay Development Impact Fees, a portion of which the City uses to fund regional circulation improvements.	1. In conjunction with project development, Pala Road from 300 feet south of Loma Linda Road to Deer Hollow (formerly Fairview Avenue) will be constructed at its ultimate half-section width as an Arterial Highway (110-foot right-of-way). Pala Road should be improved at a half-section width as an Urban Arterial Highway (134-foot right-of-way) from Loma Linda Road to a point 300 feet south of the Loma Linda intersection, and then transition to the Arterial Highway section. A 14-foot-wide landscaped median shall be constructed in accordance with City standards.	Prior to the issuance of the first building permit	Public Works Building and Safety
	2. In conjunction with project development, Wolf Valley Road from Pala Road to the eastern project boundary will be constructed at its ultimate cross-section width as a Modified Secondary Highway (110-foot right-of-way) in conjunction with adjacent development.	At the time of construction within Planning Areas along Wolf Valley Road, or as directed by Public Works	Public Works Building and Safety
	3. In conjunction with project development, construct Loma Linda Road from Pala Road to Via Del Coronado to its ultimate half-section width as a Collector (66-foot right-of-way) in conjunction with adjacent development, or a 78-foot Principal Collector roadway if the Circulation Element Update of the General Plan is approved.	Prior to the issuance of the first building permit	Public Works Building and Safety
	4. In conjunction with project development, Deer Hollow from Pala Road to the eastern project boundary will be constructed at its ultimate half-section width as a Secondary Highway (88-foot right-of-way).	At the time of construction within Planning Areas along Fairview Avenue, or as directed by Public Works	Public Works Building and Safety
	5. Site distance at each entrance to the project shall be reviewed with respect to standard Caltrans/City of Temecula sight-distance standards at the time of preparation of tentative maps.	During review of tentative maps and development proposals	Public Works Building and Safety
	6. Property owner(s) within the project area, or the developer(s), shall contribute to the construction of the Pala Road bridge crossing of Temecula Creek on a fair-share basis through Assessment District No. 159.	Prior to the issuance of building permits on affected properties	Public Works Building and Safety

Impact	Mitigation Measures	Time Frame/ Monitoring Milestones	Responsible Monitoring Part
	7. Prior to the issuance of the first building permit for the Wolf Creek Specific Plan, the Pala Road bridge crossing of Temecula Creek shall be constructed to accommodate four travel lanes, consistent with plans approved by the City of Temecula. At the time of tentative subdivision map approval or commercial development plan approval, traffic volumes at the Pala Road bridge shall be monitored and approval may be subject to confirmation of available bridge-carrying capacity.	Prior to the issuance of the first building permit	Public Works Building and Safety
	8. Prior to issuance of the first building permit, the following improvements shall have been completed to the satisfaction of the City: • Interim interchange improvements at I-15/SR 79S, • Widening of SR 79S between Pala Road and I-15, and • Widening of Pala Road to 4 lanes from Clubhouse Drive to Loma Linda Road.	Prior to the issuance of the first building permit	Public Works Building and Safety
	9. The developer(s) shall design and install traffic signals for project-impacted intersections when warranted, as determined by the Department of Public Works.	As determined by Public Works	Public Works Building and Safety
	10. To accommodate transit services within the specific plan, bus turnouts shall be provided at locations designated by Riverside Transit Agency or the City of Temecula Department of Public Works. Safe pedestrian access to and from the bus turnout shall be provided.	During review of tentative maps and development proposals	Public Works Building and Safety Riverside Transit Agency
	11. Subsequent focused traffic studies may be required as the project develops to identify actual future conditions and to determine whether additional improvements are required of the project to meet City LOS objectives.	Ongoing, as directed by Public Works	Public Works
	12. Phased on-site street improvements will be identified and prioritized at the subdivision map stage.	During review of tentative maps	Public Works Building and Safety

Attachment B

Excerpts from Traffic Impact Study for the Pechanga Casino Resort Hotel (LLG 2015)

LINSCOTT LAW & GREENSPAN engineers

TRAFFIC IMPACT ANALYSIS

PECHANGA RESORT HOTEL EXPANSION

Temecula, California
June 29, 2015

LLG Ref. 3-04-1430

Linscott, Law & Greenspan, Engineers
4542 Ruffner Street
Suite 100
San Diego, CA 92111
858.300.8800 T
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EXECUTIVE SUMMARY

The Pechanga Resort Hotel Expansion Project ("Project") proposes development of 4 star plus hotel project to include the north and south hotel towers (569 rooms), ballroom/convention hall with prefunction space, extension of the existing lobby to new spaces (including tenant improvements to existing office spaces; existing ballroom prefunction; re-work of transitional areas and second level walkway added to existing lobby), a resort pool area with performance stage, and a detached spa building. The roof of the ballroom will be a 'park' setting with green roof.

The project also includes re-work of site utilities, fire service, underground parking, and re-developed vehicle circulation including porte cochere, landscaping, circulation tunnels for valet, and additional parking.

Linscott, Law & Greenspan, Engineers (LLG) have prepared a traffic impact study to evaluate the effects of the Project on the local roadway circulation system. The analysis includes review of nineteen intersections and eight roadway links, comprised of nineteen individual street segments. Weekday AM/PM commuter peak hours and the Saturday PM peak hour were evaluated for the following scenarios:

- Existing
- Existing + Project
- Near-Term (Year 2019)
- Near-Term (Year 2019) + Project
- General Plan (Year 2035)
- General Plan (Year 2035) + Project

The analysis utilized a *Synchro* network provided to LLG by the City of Temecula which included intersection timing and geometric information.

Existing traffic counts were conducted in November 2014 when local schools were in session. General Plan (Year 2035) traffic volumes were forecasted for the study area using the 2035 RivTAM Traffic Model conducted for the Altair Specific Plan project. The traffic volumes represent LLG's best efforts of forecasting General Plan (Year 2035) conditions with the most recent modeling information available at the time this report was prepared. Extensive coordination was made with current studies underway for adjacent, large-scale development including the Altair Specific Plan, the Temecula Creek Inn Project, the Uptown Jefferson Specific Plan, as well as the City's 2015 list of cumulative projects.

The analysis revealed one (1) direct project impact, and six (6) cumulative project impacts. Direct impact mitigation is proposed to widen Pechanga Parkway from 4-to-6 lanes from south of Via Gilberto to the North Casino Driveway. Cumulative impact mitigation includes the contribution of fair-share monies towards improvements along SR-79 (Temecula Parkway) from Interstate 15 to Margarita Road.

11.0 GENERAL PLAN (YEAR 2035) CONDITIONS

The following section presents the analysis of study area intersections and roadway links under General Plan (Year 2035) conditions with and without the proposed Project.

11.1 Planned Local and Regional Improvements

In assessing the impacts of the proposed development, it was necessary to review planned, on-going, and future roadway improvements in the study area.

For the purposes of this traffic study, the implementation of local and regional roadway improvements were assumed in place based on coordination with City staff and a review of approved traffic studies in the area. The following street system improvements were assumed for the General Plan (Year 2035) conditions:

- The freeway interchange improvements at **SR-79 (Temecula Parkway) / I-15** are assumed to be completed by Year 2035. This project will reconfigure the southbound ramps using a partial cloverleaf design for the southbound off-ramp, connecting to Temecula Parkway opposite Old Town Front Street. In addition, the project will improve the intersection at Temecula Parkway and the I-15 Northbound Ramps with additional turn lanes and an HOV on-ramp lane, retaining its existing diamond configuration. These improvements are currently anticipated to be completed by Year 2020. The project plans for this improvement are included in *Appendix A.*

- The **Western Bypass** project would construct a new road from the western terminus of Temecula Parkway to Vincent Moraga Drive, the road that leads directly to Diaz Road. This new road is intended to access potential new development in the vicinity and to relieve traffic on I-15 and Old Town Front Street.

Neither the *Eastern Bypass* nor the *Southern City Interchange* were assumed in the buildout condition based on the likelihood that both improvements would require right-of-way through the Pechanga tribal lands which cannot be granted due to the inevitable disturbance of sensitive cultural sites any such alignment would require. SR-79 (Temecula Parkway) was also not assumed built out to its 8-Lane Expressway standard between I-15 and Pechanga Parkway, as proposed in the City's Circulation Element.

Figure 11–1 shows the Year 2035 Conditions Diagram.

11.2 Traffic Volumes

General Plan (Year 2035) traffic volumes were forecasted for the study area using the 2035 RivTAM Traffic Model conducted for the Altair Specific Plan project. The traffic volumes represent LLG's best efforts of forecasting General Plan (Year 2035) conditions with the most recent modeling information available at the time this report was prepared.

The model used includes the proposed *Eastern Bypass* network improvements which includes a future arterial aligned opposite Deer Hollow Way, connecting to I-15 at a new interchange. For the purposes of this traffic study, the daily volumes on this potential future arterial were manually reassigned to the existing network, primarily to SR-79 (Temecula Parkway).

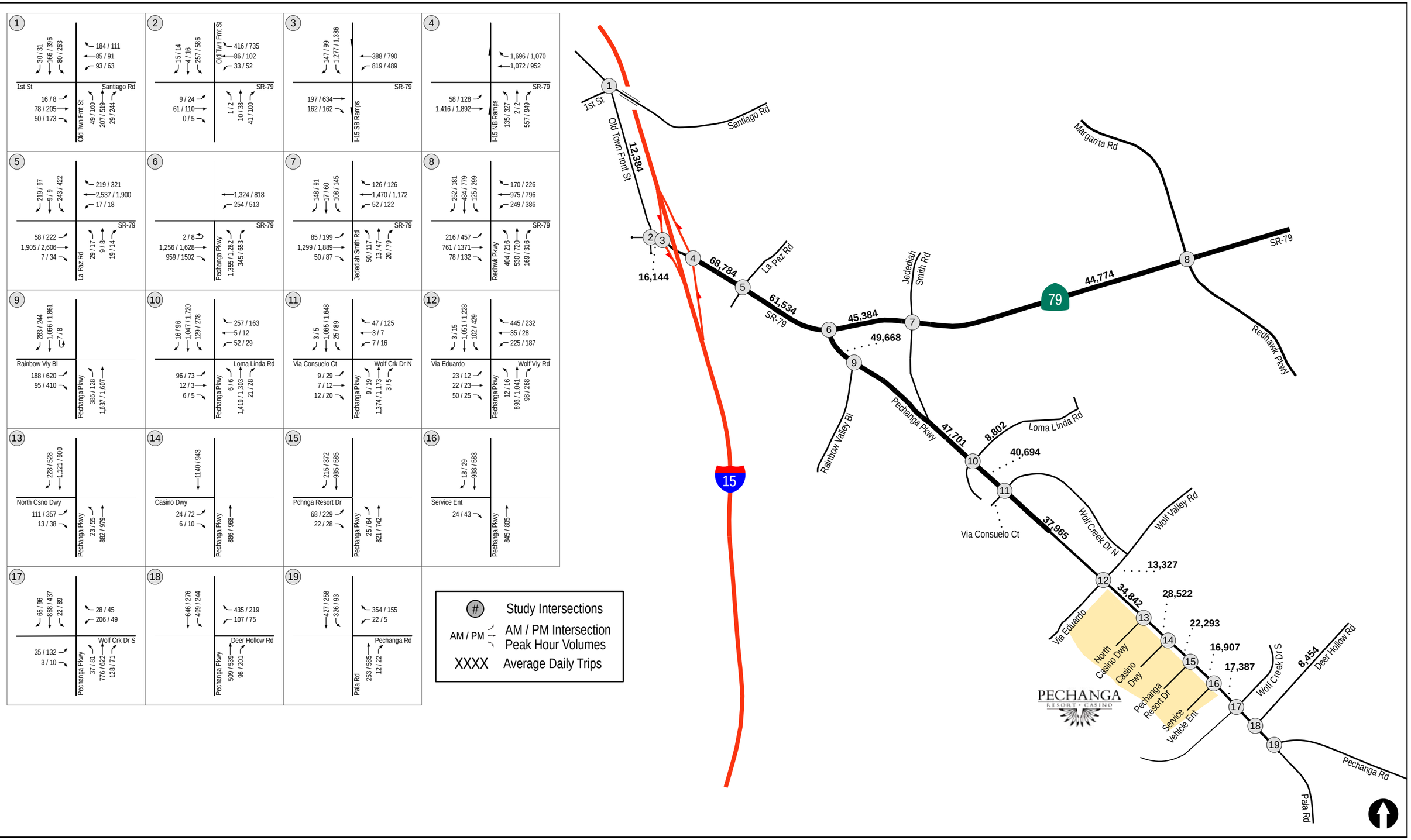
Based on the projected forecast ADT volumes, the General Plan (Year 2035) peak hour volumes were calculated based on the existing relationship between ADT and peak hour volumes. The forecast volumes were also checked for consistency between intersections, where no driveways or roadways existing between intersections, and were compared to existing volumes for accuracy. Additionally, the forecasted peak hour volumes were checked for consistency against the General Plan (Year 2035) peak hour volumes developed by Fehr & Peers using the Uptown Jefferson Specific Plan model, at common intersections.

Figure 11–2 depicts the General Plan Year 2035 Without Project traffic volumes.

Project traffic volumes for Year 2035 were subject to minor modification to account for the network improvements described in the previous section. Otherwise the overall regional distribution as well as the total trip generation is the same as in the near-term scenarios. ***Figure 11–3*** depicts the Year 2035 Project Trip Distribution. ***Figure 11–4*** depicts the Year 2035 Project Traffic Volumes.

Figure 11–5 depicts the Year 2035 With Project traffic volumes for the study area.

Appendix H contains the Year 2035 traffic volume forecasts.



1
30 / 31
166 / 396
80 / 263
184 / 111
85 / 91
93 / 63
1st St
Santiago Rd
16 / 8
78 / 205
50 / 173
Old Twn Frnt St
49 / 160
207 / 519
29 / 244

2
15 / 14
4 / 16
257 / 586
Old Twn Frnt St
416 / 735
86 / 102
33 / 52
SR-79
9 / 24
61 / 110
0 / 5
1 / 2
10 / 38
41 / 100

3
147 / 99
1,277 / 1,386
388 / 790
819 / 489
SR-79
197 / 634
162 / 162
I-15 SB Ramps

4
1,696 / 1,070
1,072 / 952
SR-79
58 / 128
1,416 / 1,892
I-15 NB Ramps
135 / 327
2 / 2
557 / 949

5
219 / 97
9 / 9
243 / 422
219 / 321
2,537 / 1,900
17 / 18
SR-79
58 / 222
1,905 / 2,606
7 / 34
La Paz Rd
29 / 17
9 / 8
19 / 14

6
1,324 / 818
254 / 513
SR-79
2 / 8
1,256 / 1,628
959 / 1502
Pechanga Pkwy
1,355 / 1,262
345 / 653

7
148 / 91
17 / 60
108 / 145
126 / 126
1,470 / 1,172
52 / 122
SR-79
85 / 199
1,299 / 1,889
50 / 87
Jedediah Smith Rd
50 / 117
13 / 47
20 / 79

8
252 / 181
484 / 779
125 / 299
170 / 226
975 / 796
249 / 386
SR-79
216 / 457
761 / 1371
78 / 132
Redhawk Pkwy
404 / 216
530 / 720
169 / 316

9
283 / 244
1,066 / 1,861
7 / 8
Rainbow Vly Bl
188 / 620
95 / 410
Pechanga Pkwy
385 / 128
1,637 / 1,607

10
16 / 96
1,047 / 1,720
129 / 278
257 / 163
5 / 12
52 / 29
Loma Linda Rd
96 / 73
12 / 3
6 / 5
Pechanga Pkwy
6 / 6
1,419 / 1,303
21 / 28

11
3 / 5
1,065 / 1,648
25 / 89
47 / 125
3 / 7
7 / 16
Via Consuelo Ct
Wolf Crk Dr N
9 / 29
7 / 12
12 / 20
Pechanga Pkwy
9 / 19
1,374 / 1,173
3 / 5

12
3 / 15
1,051 / 1,228
102 / 429
445 / 232
35 / 28
225 / 187
Via Eduardo
Wolf Vly Rd
23 / 12
22 / 23
50 / 25
Pechanga Pkwy
12 / 16
893 / 1,041
98 / 268

13
228 / 528
1,121 / 900
North Csno Dwy
111 / 357
13 / 38
Pechanga Pkwy
23 / 55
882 / 979

14
1140 / 943
Casino Dwy
24 / 72
6 / 10
Pechanga Pkwy
886 / 968

15
215 / 372
935 / 585
Pchnga Resort Dr
68 / 229
22 / 28
Pechanga Pkwy
25 / 64
821 / 742

16
18 / 29
938 / 583
Service Ent
24 / 43
Pechanga Pkwy
845 / 805

17
65 / 96
868 / 437
22 / 89
28 / 45
206 / 49
Wolf Crk Dr S
35 / 132
3 / 10
Pechanga Pkwy
37 / 81
776 / 622
128 / 71

18
646 / 276
409 / 244
435 / 219
107 / 75
Deer Hollow Rd
Pechanga Pkwy
509 / 539
98 / 201

19
427 / 258
326 / 93
354 / 155
22 / 5
Pechanga Rd
Pala Rd
253 / 585
12 / 22

(#) Study Intersections
AM / PM AM / PM Intersection Peak Hour Volumes
XXXX Average Daily Trips

LINSCOTT LAW & GREENSPAN engineers

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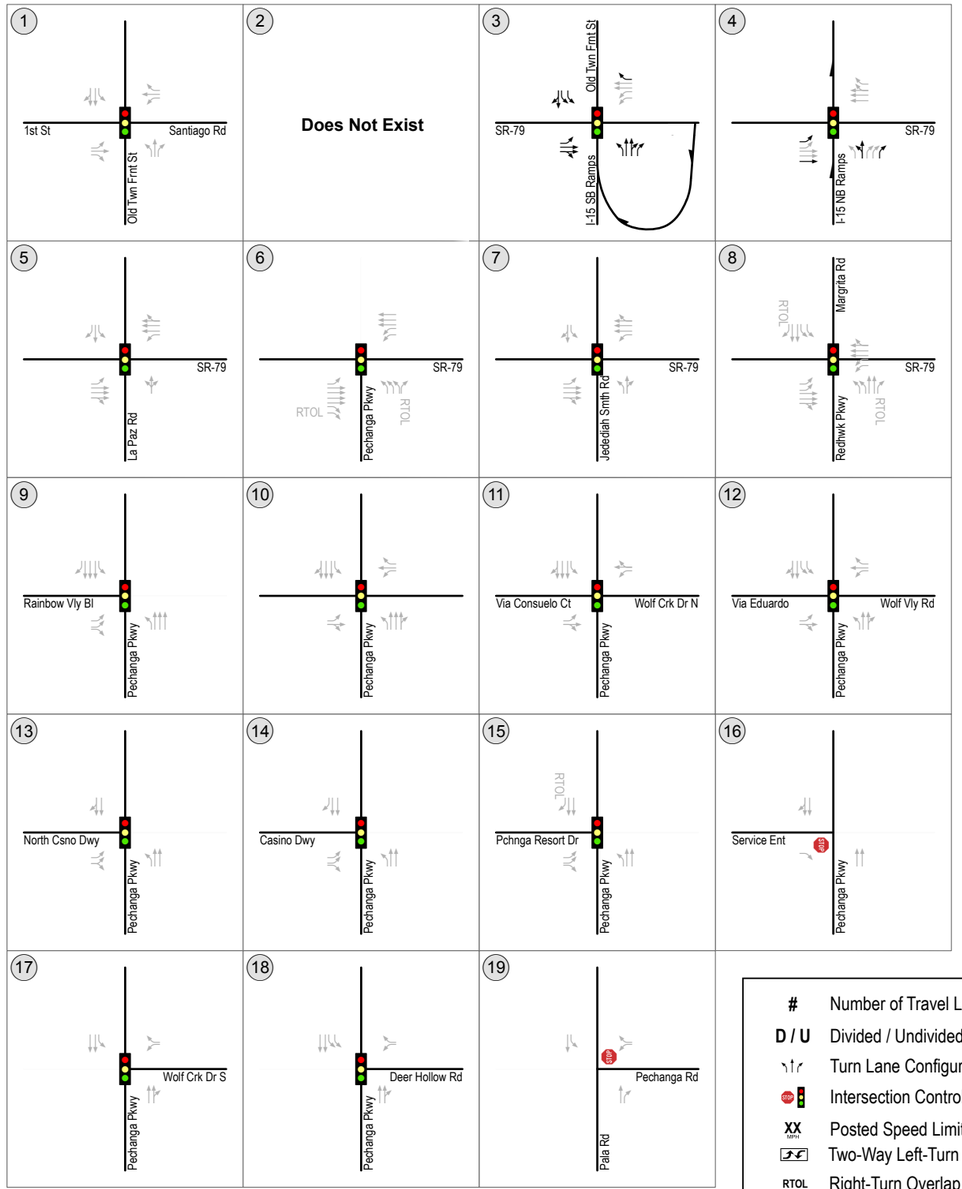
Date: 06/29/15

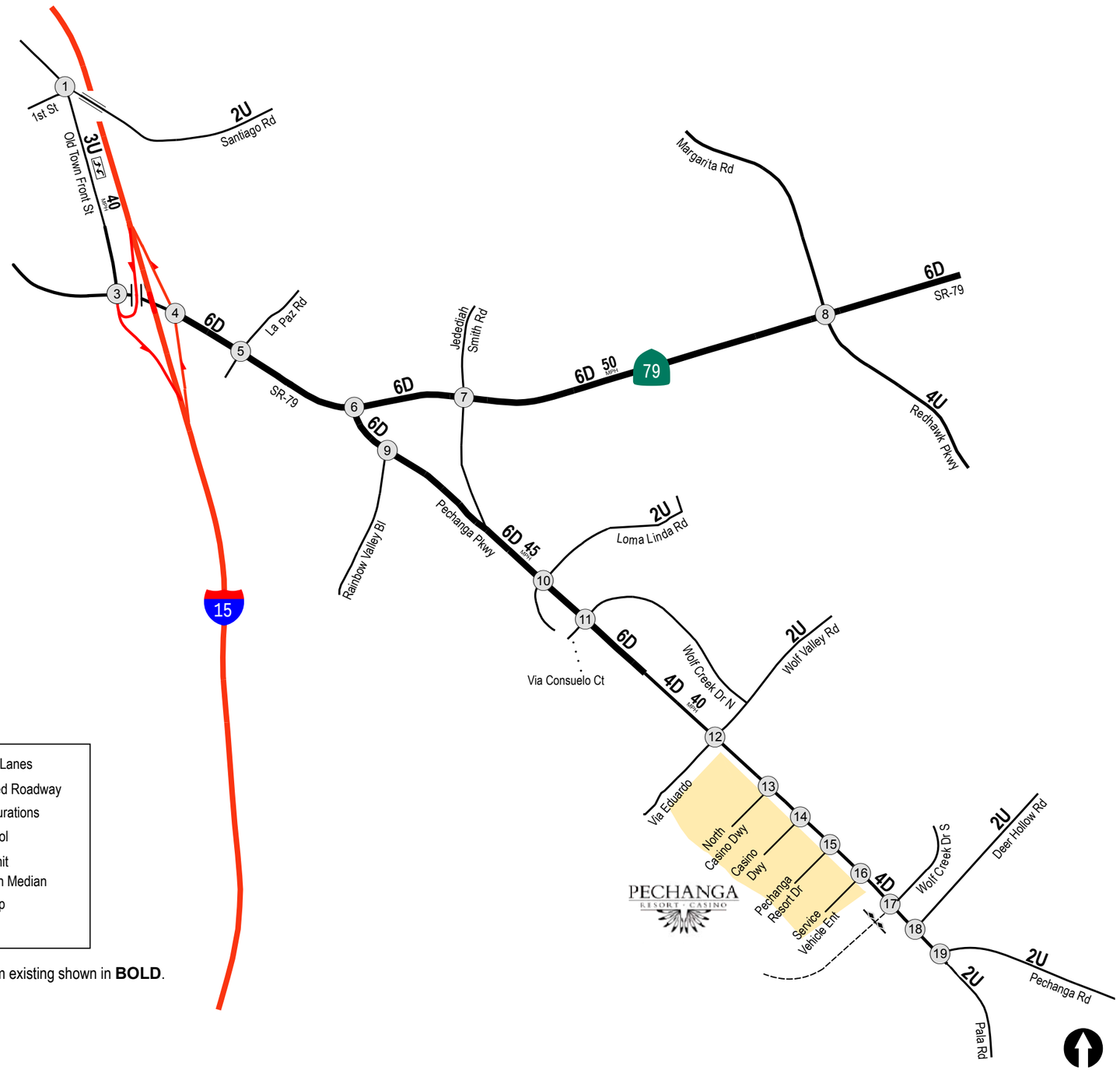
Figure 9-3

Weekday Near-Term (2019) + Project Traffic Volumes

PECHANGA RESORT & CASINO



Note: Network changes from existing shown in **BOLD**.



LINSCOTT LAW & GREENSPAN engineers

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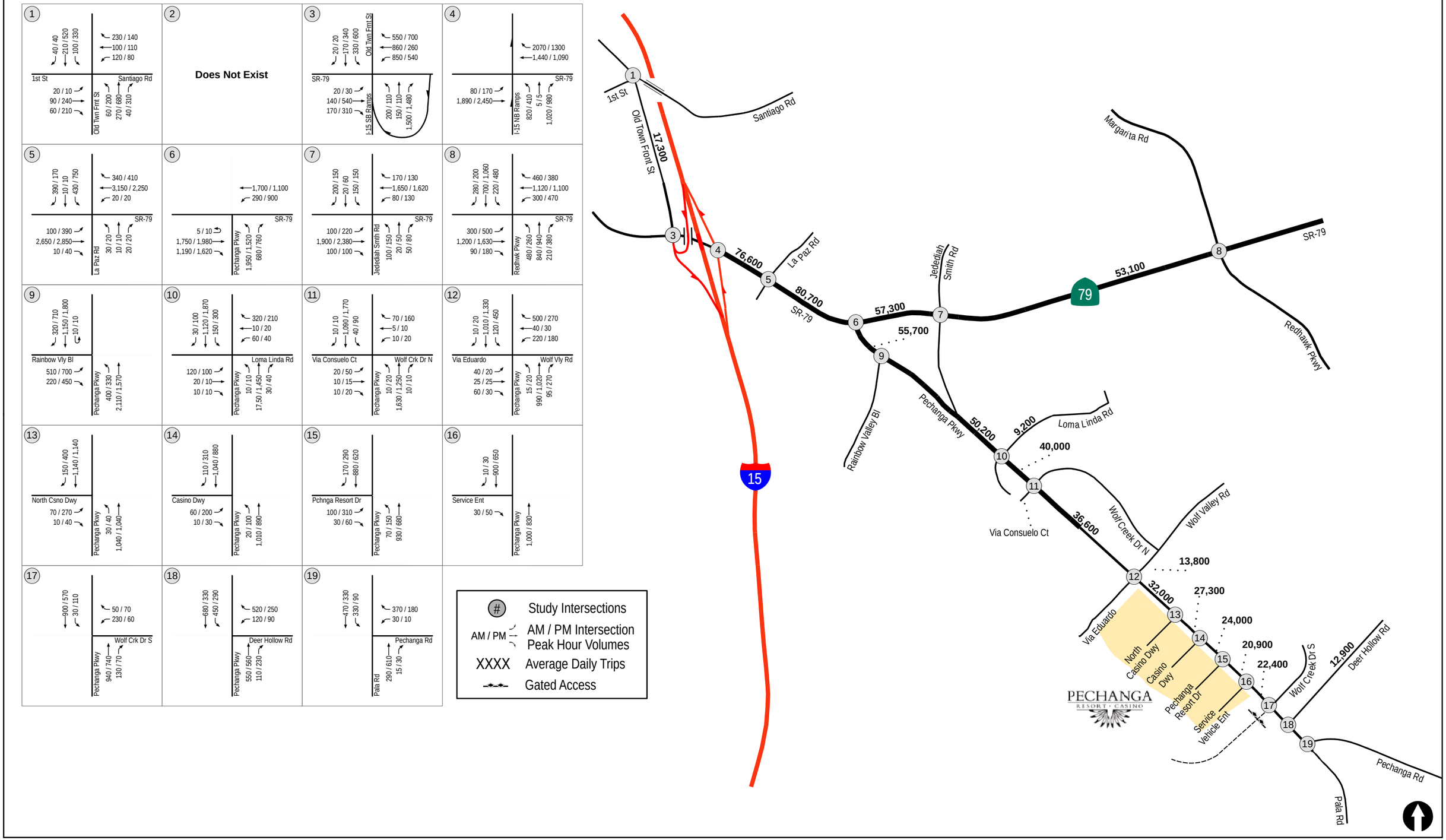
Date: 04/14/15

Figure 11-1

General Plan (Year 2035) Conditions Diagram

PECHANGA RESORT & CASINO



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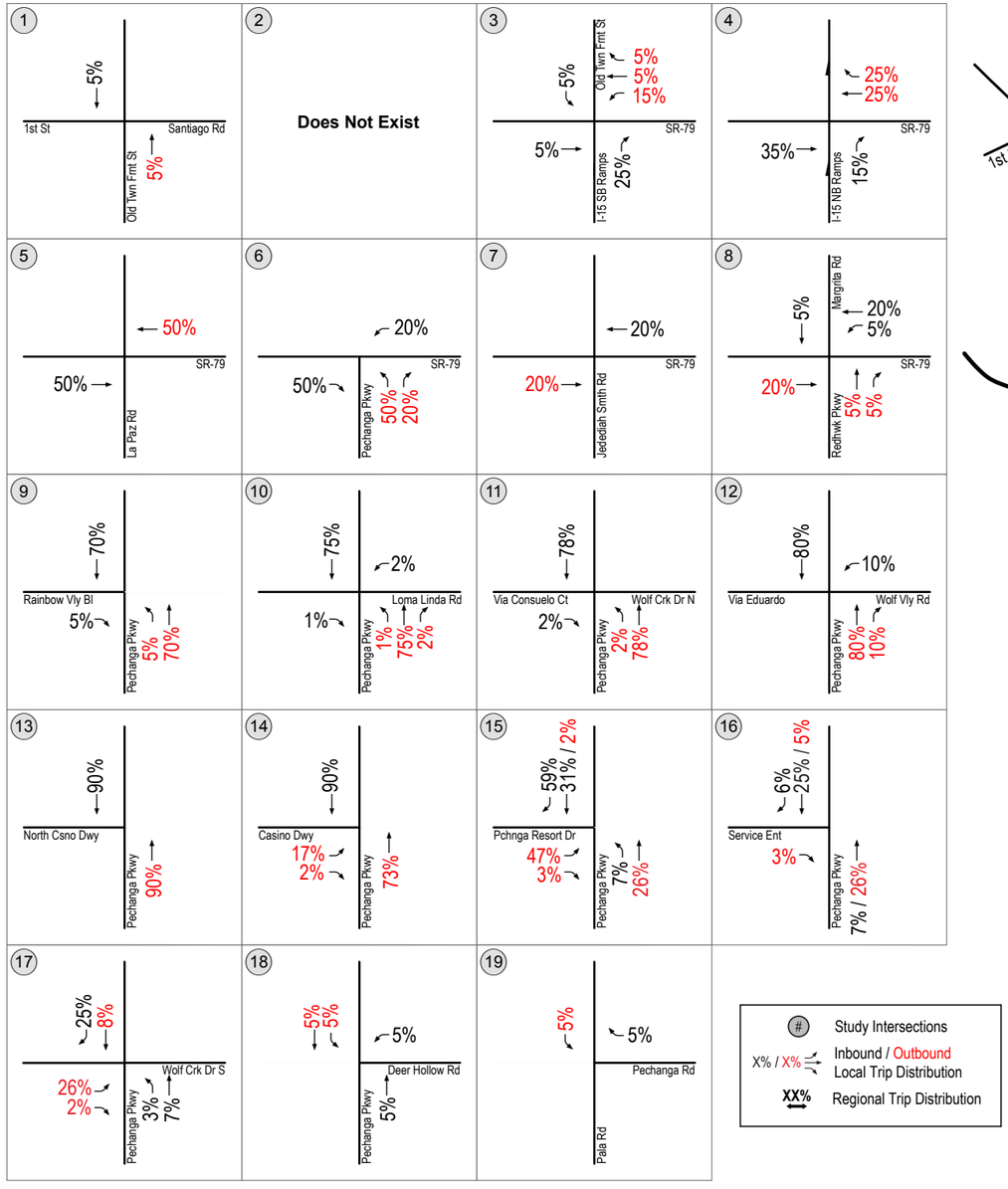
Date: 06/29/15

Figure 11-2

General Plan (Year 2035) Traffic Volumes

PECHANGA RESORT & CASINO



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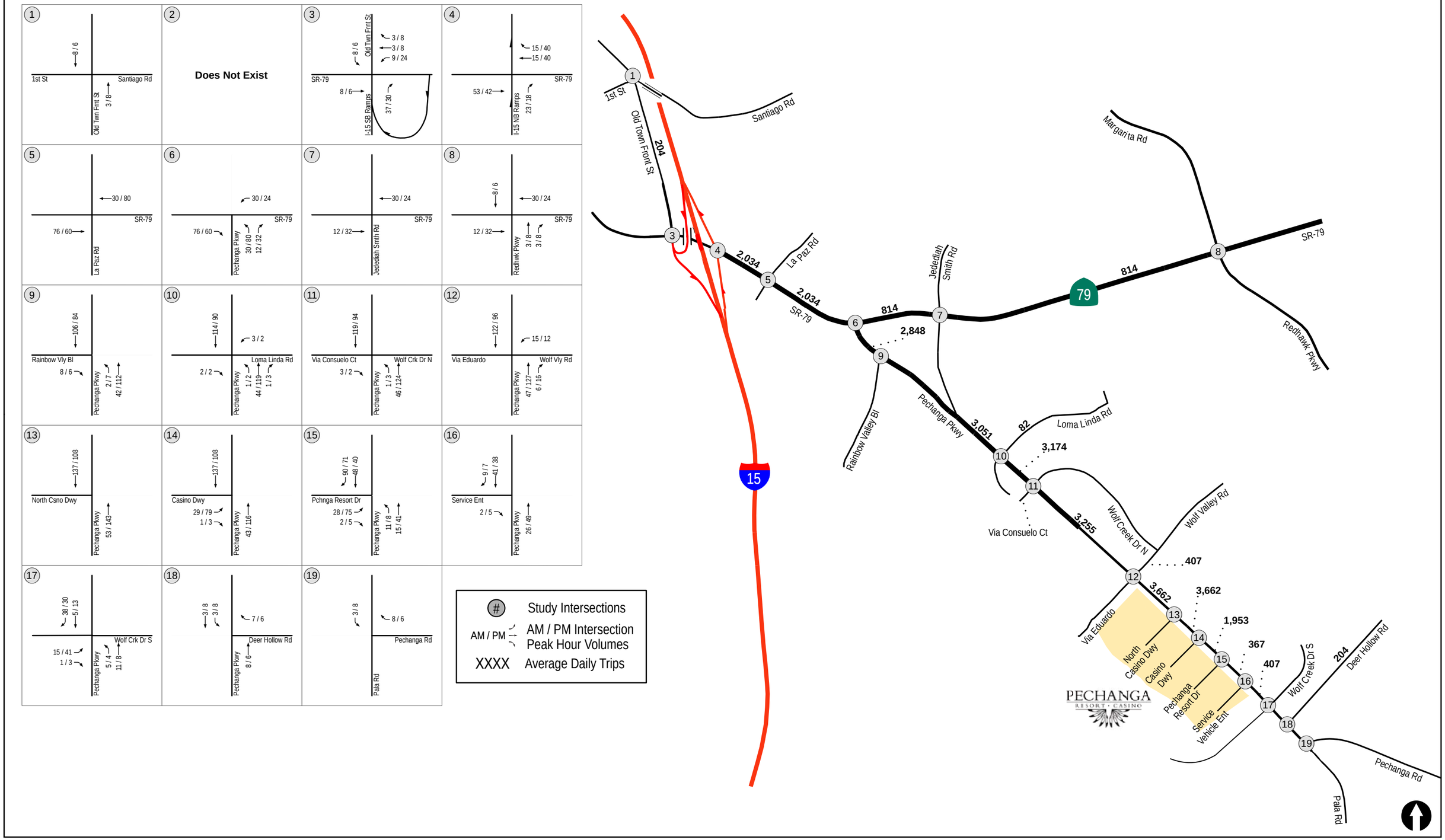
Date: 06/29/15

Figure 11-3

Year 2035 Project Trip Distribution

PECHANGA RESORT & CASINO



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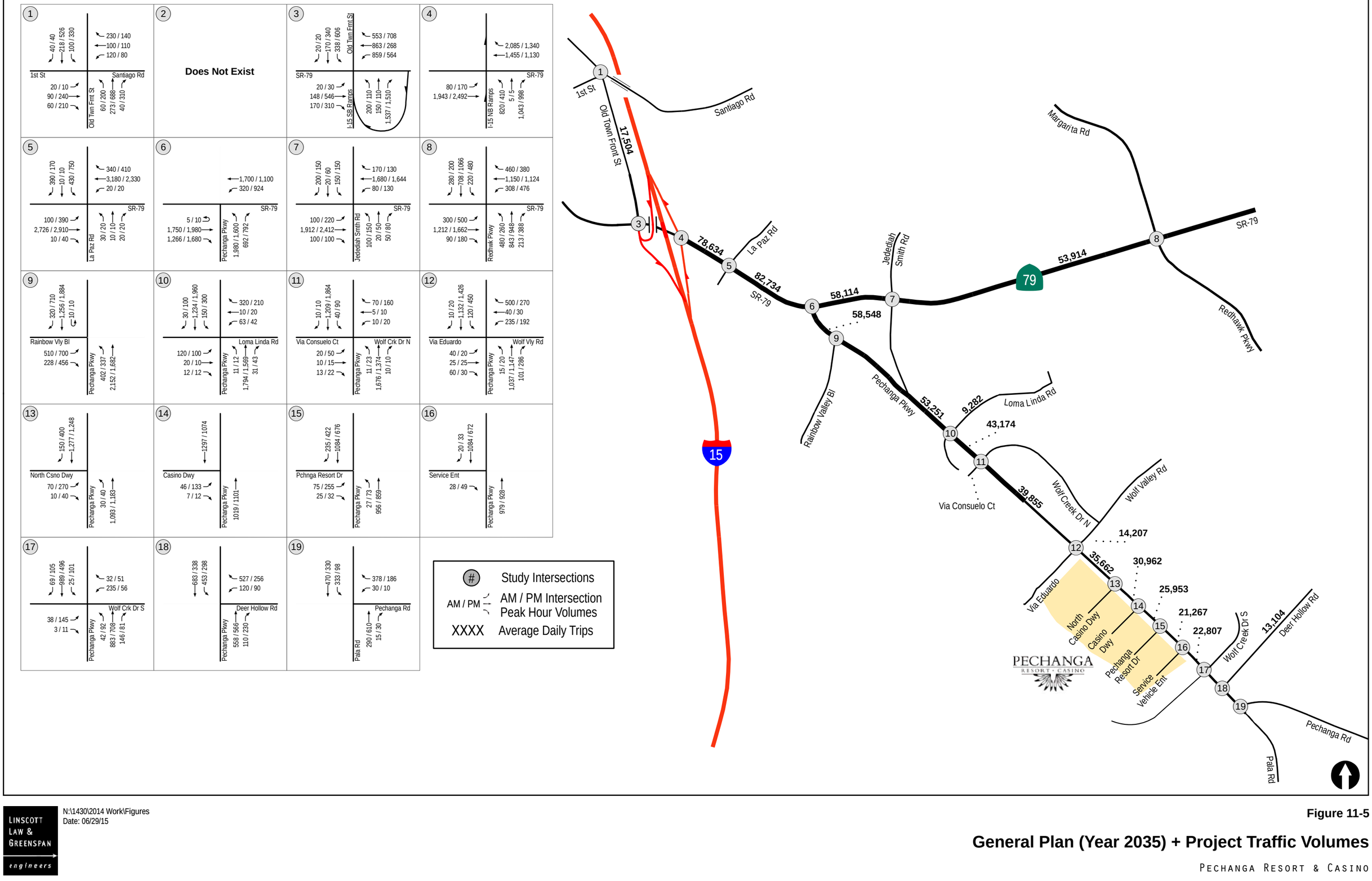
Date: 06/29/15

Figure 11-4

General Plan (Year 2035) Project Traffic Volumes

PECHANGA RESORT & CASINO



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Date: 06/29/15

Figure 11-5

General Plan (Year 2035) + Project Traffic Volumes

PECHANGA RESORT & CASINO

12.0 GENERAL PLAN (YEAR 2035) ANALYSIS

The following section presents the analysis of study area intersections and roadway links under General Plan (Year 2035) conditions with and without the proposed Project.

12.1 General Plan (Year 2035) Intersection Operations

12.1.1 *General Plan (Year 2035)*

Table 12–1 summarizes the General Plan (Year 2035) intersection operations. As seen in *Table 12–1*, the following study area intersections are calculated to operate at LOS F under this scenario:

- Intersection #3. SR-79 / I-15 Southbound Ramps – LOS F (PM peak hour)
- Intersection #5. SR-79 / La Paz Road – LOS F (AM/PM peak hours)
- Intersection #8. SR-79 / Margarita Road – LOS F (PM peak hour)

Appendix I contains the Year 2035 Without Project peak hour intersection calculation worksheets.

12.1.2 *General Plan (Year 2035) + Project*

Table 12–1 also summarizes the General Plan (Year 2035) + Project intersection operations. As seen in *Table 12–1*, the following study area intersections are calculated to degrade to, or continue to operate at LOS F conditions with the addition of Project traffic:

- **Intersection #3. SR-79 / I-15 Southbound Ramps – LOS F (PM peak hour)**
- **Intersection #5. SR-79 / La Paz Road – LOS F (AM/PM peak hours)**
- **Intersection #8. SR-79 / Margarita Road – LOS F (AM/PM peak hour)**
- **Intersection #12. Pechanga Parkway/ Wolf Valley Road – LOS F (PM peak hour)**

Based on City of Temecula significance criteria, **four (4) significant cumulative impacts** were calculated with the addition of Project traffic at the intersections above.

It should be noted that localized improvements in LOS occur on Pechanga Parkway at the driveways as compared to the "without Project" condition based on planned improvements discussed in *Section 7.2*.

Appendix J contains the Year 2035 With Project peak hour intersection calculation worksheets.

TABLE 12–1
YEAR 2035 INTERSECTION OPERATIONS

Intersection	Control Type	Peak Hour	Year 2035 without Project		Year 2035 with Project		Δ [c] Delay	Sig? [d]
			Delay[a]	LOS[b]	Delay	LOS		
1. 1st Street / Old Town Front Street	Signal	AM	24.6	C	24.7	C	0.1	No
		PM	52.0	D	53.0	D	1.0	
2. SR-79 / Old Town Front Street	DNE	AM	—	—	—	—	—	—
		PM	—	—	—	—	—	
3. SR-79/ Old Town Front St / I-15 Southbound Ramps	Signal	AM	48.2	D	53.6	D	5.4	**Yes**
		PM	90.3	F	**>100.0**	**F**	**>10.0**	
4. SR-79/ I-15 Northbound Ramps	Signal	AM	36.2	D	36.2	D	0.0	No
		PM	38.9	D	38.9	D	0.0	
5. SR-79/ La Paz Street	Signal	AM	>100.0	F	**>100.0**	**F**	**>10.0**	**Yes**
		PM	>100.0	F	**>100.0**	**F**	**>10.0**	
6. SR-79/ Pechanga Parkway	Signal	AM	28.9	C	29.6	C	0.7	No
		PM	47.3	D	47.3	D	0.0	
7. SR-79 / Jedediah Smith Road	Signal	AM	12.7	B	16.9	B	4.2	No
		PM	33.6	C	33.6	C	0.0	
8. SR-79 / Margarita Road	Signal	AM	52.2	D	**96.4**	**F**	**>10.0**	**Yes**
		PM	80.4	F	**99.1**	**F**	**>10.0**	
9. Pechanga Parkway / Rainbow Valley Boulevard	Signal	AM	17.9	B	21.9	C	4.0	No
		PM	42.9	D	47.6	D	4.7	
10. Pechanga Parkway / Loma Linda Road	Signal	AM	15.6	B	43.1	D	27.5	No
		PM	26.2	C	47.1	D	20.9	
11. Pechanga Parkway / Wolf Creek Drive North	Signal	AM	8.0	A	9.7	A	1.7	No
		PM	14.4	B	7.2	A	(7.2)	
12. Pechanga Parkway/ Wolf Valley Road	Signal	AM	38.6	D	38.6	D	0.0	**Yes**
		PM	34.2	C	**84.1**	**F**	**>10.0**	
13. Pechanga Parkway/ North Casino Drive	Signal	AM	3.8	A	7.8	A	4.0	No
		PM	12.7	B	19.1	B	6.4	
14. Pechanga Parkway/ Casino Drive	Signal	AM	6.5	A	3.9	A	(2.6)	No
		PM	12.8	B	6.2	A	(6.6)	
15. Pechanga Parkway / Pechanga Resort Drive	Signal	AM	5.8	A	6.6	A	0.8	No
		PM	15.0	B	9.6	A	(5.4)	

Continued on next page

TABLE 12–1
YEAR 2035 INTERSECTION OPERATIONS

Intersection	Control Type	Peak Hour	Year 2035 without Project		Year 2035 with Project		Δ [c] Delay	Sig? [d]
			Delay[a]	LOS[b]	Delay	LOS		
Continued from previous page								
16. Pechanga Parkway / Bus/Service Vehicle Entrance	MSSC	AM	10.1	B	10.7	B	0.6	No
		PM	9.3	A	9.6	A	0.3	
17. Pechanga Parkway / Wolf Creek Drive South	Signal	AM	11.1	B	21.4	C	10.3	No
		PM	10.6	B	23.9	C	13.3	
18. Pechanga Parkway / Deer Hollow Way	Signal	AM	36.3	D	37.1	D	0.8	No
		PM	21.8	C	21.8	C	0.0	
19. Pechanga Parkway / Pechanga Road	MSSC	AM	20.5	C	20.8	C	0.3	No
		PM	18.6	C	18.9	C	0.3	

Footnotes:

a. Average delay shown in seconds.
b. LOS = Level of Service
c. Increase in delay due to Project traffic.
d. Sig = Significant Project impacts based on Significance Criteria.

SIGNALIZED		UNSIGNALIZED	
DELAY/LOS THRESHOLDS		DELAY/LOS THRESHOLDS	
Delay	LOS	Delay	LOS
0.0 ≤ 10.0	A	0.0 ≤ 10.0	A
10.1 to 20.0	B	10.1 to 15.0	B
20.1 to 35.0	C	15.1 to 25.0	C
35.1 to 55.0	D	25.1 to 35.0	D
55.1 to 80.0	E	35.1 to 50.0	E
≥ 80.1	F	≥ 50.1	F

12.2 General Plan (Year 2035) Roadway Links Operations

12.2.1 *General Plan (Year 2035)*

Roadway link analyses were conducted for critical roadways in the study area under General Plan (Year 2035) without Project conditions. ***Table 12–2*** reports the roadway link operations during peak hour conditions. The following roadway links operate at LOS F under General Plan (Year 2035) conditions, in at least one direction for one or more peak periods:

- Old Town Front Street: 1st Street to SR-79 (Temecula Parkway)
- SR-79 (Temecula Parkway): Old Town Front Street to Paz Road
- SR-79 (Temecula Parkway): La Paz Road to Pechanga Parkway

Appendix I also contains the General Plan (Year 2035) roadway link worksheets.

12.2.2 *General Plan (Year 2035) + Project*

Roadway link analyses were conducted for critical roadways in the study area under General Plan (Year 2035) + Project conditions. *Table 12–2* reports the roadway link operations during peak hour conditions. The majority of roadway links operate at LOS E or better under General Plan (Year 2035) + Project conditions, with the exception of the following, calculated to operate at LOS F in at least one direction for one or more peak periods:

- Old Town Front Street: 1st Street to SR-79 (Temecula Parkway)
- SR-79 (Temecula Parkway): Old Town Front Street to Paz Road
- SR-79 (Temecula Parkway): La Paz Road to Pechanga Parkway

Based on City of Temecula significance criteria, **no significant cumulative impacts** were calculated with the addition of Project traffic, as the decrease in average speed is less than or equal to the allowable 1.0 MPH at LOS F-operating locations.

Appendix J also contains the General Plan (Year 2035) + Project roadway link worksheets.

TABLE 12–2
GENERAL PLAN (YEAR 2035) ROADWAY LINK OPERATIONS

Roadway Link	Direction	Peak Hour	General Plan		General Plan + Project		Δ [c]	Sig? [d]
			Speed[a]	LOS[b]	Speed	LOS		
Old Town Front Street								
1st Street to SR-79	NB	AM	18.2	D	18.1	D	(0.1)	No
		PM	9.4	F	9.1	F	(0.3)	No
	SB	AM	12.3	F	12.3	F	0.0	No
		PM	14.0	E	14.0	E	0.0	No
SR-79								
Old Town Front Street to La Paz Rd	EB	AM	21.3	D	18.4	E	(2.9)	No
		PM	13.3	F	13.3	F	0.0	No
	WB	AM	18.2	E	17.0	E	(1.2)	No
		PM	20.5	E	19.9	E	(0.6)	No
La Paz Rd to Pechanga Pkwy	EB	AM	23.6	D	23.6	C	0.0	No
		PM	17.6	E	17.6	E	0.0	No
	WB	AM	7.3	F	6.3	F	(1.0)	No
		PM	6.4	F	6.0	F	(0.4)	No
Pechanga Pkwy to Jedediah Smith Rd	EB	AM	34.3	B	31.5	C	(2.8)	No
		PM	20.4	E	20.4	E	0.0	No
	WB	AM	26.5	D	23.0	D	(3.5)	No
		PM	35.4	B	35.4	B	0.0	No
Jedediah Smith Rd to Margarita Rd	EB	AM	33.9	C	30.2	C	(3.7)	No
		PM	25.6	D	25.2	D	(0.4)	No
	WB	AM	33.4	C	32.9	C	(0.5)	No
		PM	26.7	D	26.7	D	0.0	No
Pechanga Parkway								
SR-79 to Loma Linda Rd	NB	AM	29.1	B	27.2	C	(1.9)	No
		PM	26.5	C	26.5	C	0.0	No
	SB	AM	31.9	B	28.8	B	(3.1)	No
		PM	25.9	C	25.7	C	(0.2)	No
Loma Linda Rd to Wolf Valley Rd	NB	AM	40.2	A	35.9	A	(4.3)	No
		PM	32.9	B	32.9	B	0.0	No
	SB	AM	29.9	B	29.9	B	0.0	No
		PM	35.1	A	35.1	A	0.0	No

Continued on Next Page

TABLE 12–2
GENERAL PLAN (YEAR 2035) ROADWAY LINK OPERATIONS

Roadway Link	Direction	Peak Hour	General Plan		General Plan + Project		Δ [c]	Sig? [d]
			Speed[a]	LOS[b]	Speed	LOS		
Pechanga Parkway (continued)								
Wolf Valley Road to Deer Hollow Way	NB	AM	26.9	C	24.9	C	(2.0)	No
		PM	25.6	C	22.1	C	(3.5)	No
	SB	AM	24.8	C	22.7	C	(2.1)	No
		PM	24.4	C	23.9	C	(0.5)	No

Footnotes:

a. Speed in miles per hour
b. Level of Service
c. Δ denotes project induced speed decrease
d. Sig = significant project impacts based on Significance Criteria

SPEED (MPH)/LOS THRESHOLDS

LOS	Class I	Class II	Class III	Class IV
A	>42	>35	>30	>25
B	>34-42	>28-35	>24-30	>19-25
C	>27-34	>22-28	>18-24	>13-19
D	>21-27	>17-22	>14-18	>9-13
E	>16-21	>13-17	>10-14	>7-9
F	≤16	≤13	≤10	≤7

13.0 SITE ACCESS AND PARKING

13.1 Project Access

In conjunction with the development of the resort hotel and ancillary facilities as described in Section 2.2, the Project intends to make various improvements to enhance access to and from the Project site. No changes are proposed to the existing signalized access points at North Casino Drive and Pechanga Resort Drive, or at the unsignalized, right-in/right-out bus/service entrance driveway.

The access point at Casino Drive (Intersection #14) is proposed to be converted to exit-only.

The Project proposes to create a fifth access point by connecting a partially completed driveway to the existing intersection at Pechanga Parkway / Wolf Creek Drive South (Intersection #17). To connect this access point the Project will need to remove fencing and sidewalk at the existing intersection and complete signal modifications. No additional right-of-way for turn lanes is required as a northbound left-turn pocket providing approximately 225 feet of storage is currently present in the existing median (presently striped off by double yellow line). The following intersection geometry is proposed, with protected left-turn phasing at all approaches.

- Northbound – 1 left, 1 through, 1 through/right
- Westbound – 1 left, 1 through/right
- Southbound – 1 left, 1 through, 1 through/right
- Eastbound – 2 lefts, 1 through/right

13.2 Parking

Project parking demand has been studied in parking analysis reports completed by Niche Advisors dated March 5 and May 5, 2014 and peer reviewed by LLG in a memo dated August 15, 2014. These analyses determined that the Design Day parking demand would be 7,161 spaces, with a peak parking demand of 8,170 spaces. There are currently 7,204 on-site parking spaces including valet and self-parking. The proposed Project will construct a 2,400 space parking garage. Construction of the garage, the resort hotel, and the new entry drive will displace existing surface parking, leaving a net addition of 1,128 new spaces. The new total of 8,332 parking spaces on the property would be sufficient to accommodate Design Day and peak parking demand.

14.0 SUMMARY OF SIGNIFICANT IMPACTS & MITIGATION MEASURES

14.1 Significance of Impacts

Per City of Temecula significance thresholds and using the analysis methodology presented in this report, development of the Project is calculated to result in the following significant impacts:

INTERSECTIONS

TRA-1. 3. SR-79/ I-15 Southbound Ramps (Cumulative)

TRA-2. 5. SR-79/ La Paz Road (Cumulative)

TRA-3. 8. SR-79/ Margarita Road (Cumulative)

TRA-4. 12. Pechanga Parkway/ Wolf Valley Road (Direct & Cumulative)

STREET SEGMENTS

TRA-5. SR-79 (Temecula Parkway): Old Town Front St to La Paz Rd (Cumulative)

TRA-6. SR-79 (Temecula Parkway): La Paz Road to Pechanga Parkway (Cumulative)

14.2 Mitigation Measures

The following mitigation measures are recommended to reduce the Project's contribution to less than significant:

INTERSECTIONS

MM TRA-1. *3. SR-79/ I-15 Southbound Ramps* – Provide a fair-share contribution to the construction of the planned I-15 Southbound Loop Ramp at SR-79 (Temecula Parkway)

MM TRA-2. *5. SR-79/ La Paz Road* – Provide a fair-share contribution to the planned widening of SR-79 (Temecula Parkway) to 8-lane Urban Arterial standards as identified in the City's General Plan Circulation Element

MM TRA-3. *8. SR-79/ Margarita Road (Cumulative)* – Provide a fair-share contribution to the provision of a westbound right-turn lane on SR-79 (Temecula Parkway) to accommodate future growth at this intersection

MM TRA-4. *12. Pechanga Parkway/ Wolf Valley Road* –Widen Pechanga Parkway from south of Via Gilberto to Pechanga Resort Drive

STREET SEGMENTS

MM TRA-5. *SR-79: Old Town Front Street to La Paz Road* – MM's TRA-1 and TRA-2 above will mitigate this segment impact

MM TRA-6. *SR-79: La Paz Road to Pechanga Parkway* – MM's TRA-1 and TRA-2 above will mitigate this segment impact

14.3 Post-Mitigation Operations

14.3.1 *Existing + Project Intersection Operations*

Table 14–1 shows Existing + Project mitigated intersection operations. As seen in *Table 14–1*, only Pechanga Parkway / Wolf Valley Road is significantly impacted in this scenario, and mitigation measure TRA-4 fully mitigates the impact.

Post-mitigation analysis worksheets for this and all other mitigation measures are contained in ***Appendix K***.

TABLE 14–1
EXISTING + PROJECT POST-MITIGATION INTERSECTION OPERATIONS

Mitigation Measure	Intersection	Control Type	Peak Hour	Existing		Existing + Project (Mitigated)		Fully Mitigated?
				Delay[a]	LOS[b]	Delay	LOS	
TRA-4	12. Pechanga Parkway/ Wolf Valley Road	Signal	AM PM	— 54.8	— D	— 33.6	— C	[c] Yes

Footnotes:

a. Average delay shown in seconds.
b. LOS = Level of Service
c. Peak hour not significantly impacted by Project traffic. Operations not shown.

SIGNALIZED		UNSIGNALIZED	
DELAY/LOS THRESHOLDS		DELAY/LOS THRESHOLDS	
Delay	LOS	Delay	LOS
0.0 ≤ 10.0	A	0.0 ≤ 10.0	A
10.1 to 20.0	B	10.1 to 15.0	B
20.1 to 35.0	C	15.1 to 25.0	C
35.1 to 55.0	D	25.1 to 35.0	D
55.1 to 80.0	E	35.1 to 50.0	E
≥ 80.1	F	≥ 50.1	F

14.3.2 *Near-Term (Year 2019) Intersection Operations*

Table 14–2 shows the Near-Term + Project mitigated intersection operations. Three locations are significantly impacted in this scenario, including SR-79 / La Paz Street which is affected in both the Weekday and Saturday period. As seen in *Table 14–2*, all impacts are fully mitigated by the corresponding mitigation measure.

TABLE 14–2
OPENING YEAR (YEAR 2019) POST-MITIGATION INTERSECTION OPERATIONS

Mitigation Measure	Intersection	Control Type	Peak Hour	Near-Term		Near-Term + Project (Mitigated)		Fully Mitigated?
				Delay[a]	LOS[b]	Delay	LOS	
Weekday								
TRA-2	5. SR-79/ La Paz Street	Signal	AM PM	— 53.4	— D	— 37.9	— D	[c] Yes
TRA-4	12. Pechanga Parkway / Wolf Valley Road	Signal	AM PM	— 62.6	— E	— 34.9	— C	[c] Yes
Saturday								
TRA-1	3. SR-79 / I-15 SB Ramps	Signal	PM	68.6	E	35.8	D	Yes
TRA-2	5. SR-79/ La Paz Street	Signal	PM	65.7	E	32.9	C	Yes

Footnotes:

a. Average delay shown in seconds.
b. LOS = Level of Service
c. Peak hour not significantly impacted by Project traffic. Operations not shown.

SIGNALIZED		UNSIGNALIZED	
DELAY/LOS THRESHOLDS		DELAY/LOS THRESHOLDS	
Delay	LOS	Delay	LOS
0.0 ≤ 10.0	A	0.0 ≤ 10.0	A
10.1 to 20.0	B	10.1 to 15.0	B
20.1 to 35.0	C	15.1 to 25.0	C
35.1 to 55.0	D	25.1 to 35.0	D
55.1 to 80.0	E	35.1 to 50.0	E
≥ 80.1	F	≥ 50.1	F

14.3.3 *General Plan (Year 2035) Intersection Operations*

Table 14–3 shows the Year 2035 mitigated intersection operations. Four locations are subject to significant impacts in Year 2035. As seen in *Table 14–3*, all impacts are mitigated by the corresponding mitigation measure except at the SR-79 / I-15 Southbound Ramps intersection, where interchange improvements are assumed completed in the Year 2035, and no further feasible physical mitigation exists. However, the Pechanga Tribe has contributed approximately $14 million in fees towards the programmed interchange improvement, which is considered partial mitigation towards this long-term cumulative impact.

TABLE 14–3
GENERAL PLAN (YEAR 2035) POST-MITIGATION INTERSECTION OPERATIONS

Mitigation Measure	Intersection	Control Type	Peak Hour	GP Year 2035		GP Year 2035 + Project (Mitigated)		Fully Mitigated?
				Delay[a]	LOS[b]	Delay	LOS	
TRA-1	3. SR-79/ I-15 Southbound Ramps	Signal	AM	—	—	—	—	[c]
			PM	90.3	F	>100.0	F	No [d]
TRA-2	5. SR-79/ La Paz Street	Signal	AM	>100.0	F	68.9	E	Yes
			PM	184.6	F	137.6	F	Yes
TRA-3	8. SR-79 / Margarita Road	Signal	AM	52.2	D	45.2	D	Yes
			PM	80.4	F	79.2	E	Yes
TRA-4	12. Pechanga Parkway/ Wolf Valley Road	Signal	AM	—	—	—	—	[c]
			PM	34.2	C	30.8	C	Yes

Footnotes:

a. Average delay shown in seconds.
b. LOS = Level of Service
c. Peak hour not significantly impacted by Project traffic. Operations not shown.
d. I-15 / SR-79 interchange improvements are assumed complete in Year 2035. No other improvements at this location are planned, although the Tribe's payments of approximately $14 million is considered partial mitigation.

SIGNALIZED		UNSIGNALIZED	
DELAY/LOS THRESHOLDS		DELAY/LOS THRESHOLDS	
Delay	LOS	Delay	LOS
0.0 ≤ 10.0	A	0.0 ≤ 10.0	A
10.1 to 20.0	B	10.1 to 15.0	B
20.1 to 35.0	C	15.1 to 25.0	C
35.1 to 55.0	D	25.1 to 35.0	D
55.1 to 80.0	E	35.1 to 50.0	E
≥ 80.1	F	≥ 50.1	F

14.3.4 *Roadway Link Operations*

Table 14–2 shows the Post-Mitigation Roadway Link operations. Roadway link impacts occur only in the Opening Year (Year 2019) scenario, though one location is significantly impacted in the Weekday period, the other in the Saturday period.

As seen in *Table 14–2*, the decrease in speed due to Project traffic for the cumulative impact in the Weekday scenario would be mitigated to less than the allowable 1.0 mph. For the Saturday scenario, the mitigation would improve average speed on the impacted segment from LOS F to LOS C.

TABLE 14–2
POST-MITIGATION ROADWAY LINK OPERATIONS

Mitigation Measure	Roadway Link	Direction	Peak Hour	Opening Year (without Project)		Opening Year + Project (post-mitigation)		Δ
				Speed[a]	LOS[b]	Speed	LOS	
	Weekday							
	SR-79							
TRA-5	Old Town Front Street to La Paz Rd	EB	PM	15.5	F	14.7	F	(0.8)
	Saturday							
	SR-79							
TRA-6	La Paz Rd to Pechanga Pkwy	WB	PM	14.2	F	27.6	C	13.4

Footnotes:

a. Speed in miles per hour
b. Level of Service

SPEED (MPH)/LOS THRESHOLDS

LOS	Class I	Class II	Class III	Class IV
A	>42	>35	>30	>25
B	>34-42	>28-35	>24-30	>19-25
C	>27-34	>22-28	>18-24	>13-19
D	>21-27	>17-22	>14-18	>9-13
E	>16-21	>13-17	>10-14	>7-9
F	≤16	≤13	≤10	≤7

End of Report

Village West - Year 2035 With Project Daily Volumes

LSA

LSA ASSOCIATES, INC.

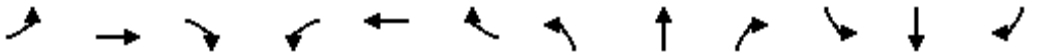
APPENDIX L

POST-MITIGATION OPERATIONS WORKSHEETS

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (vph)	10	22	24	185	27	220	15	1008	263	423	1165	14
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)	4.0	4.0		4.0	4.0	4.0	4.0	4.0		4.0	4.0	
Lane Util. Factor	1.00	1.00		1.00	1.00	1.00	1.00	0.91		0.97	0.91	
Frpb, ped/bikes	1.00	0.99		1.00	1.00	0.98	1.00	1.00		1.00	1.00	
Flpb, ped/bikes	1.00	1.00		1.00	1.00	1.00	1.00	1.00		1.00	1.00	
Frt	1.00	0.92		1.00	1.00	0.85	1.00	0.97		1.00	1.00	
Flt Protected	0.95	1.00		0.95	1.00	1.00	0.95	1.00		0.95	1.00	
Satd. Flow (prot)	1770	1703		1770	1863	1553	1770	4904		3433	5074	
Flt Permitted	0.95	1.00		0.95	1.00	1.00	0.95	1.00		0.95	1.00	
Satd. Flow (perm)	1770	1703		1770	1863	1553	1770	4904		3433	5074	
Peak-hour factor, PHF	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84
Adj. Flow (vph)	12	26	29	220	32	262	18	1200	313	504	1387	17
RTOR Reduction (vph)	0	26	0	0	0	209	0	47	0	0	1	0
Lane Group Flow (vph)	12	29	0	220	32	53	18	1466	0	504	1403	0
Confl. Peds. (#/hr)			2			5			10			4
Turn Type	Prot	NA		Prot	NA	Perm	Prot	NA		Prot	NA	
Protected Phases	7	4		3	8		5	2		1	6	
Permitted Phases						8						
Actuated Green, G (s)	1.1	7.7		9.5	16.1	16.1	2.6	30.9		23.4	51.7	
Effective Green, g (s)	0.6	9.7		9.0	18.1	18.1	2.1	32.4		22.9	53.2	
Actuated g/C Ratio	0.01	0.11		0.10	0.20	0.20	0.02	0.36		0.25	0.59	
Clearance Time (s)	3.5	6.0		3.5	6.0	6.0	3.5	5.5		3.5	5.5	
Vehicle Extension (s)	1.5	2.0		1.5	2.0	2.0	2.0	4.0		2.0	4.0	
Lane Grp Cap (vph)	11	183		177	374	312	41	1765		873	2999	
v/s Ratio Prot	0.01	0.02		c0.12	0.02		0.01	c0.30		c0.15	0.28	
v/s Ratio Perm						c0.03						
v/c Ratio	1.09	0.16		1.24	0.09	0.17	0.44	0.83		0.58	0.47	
Uniform Delay, d1	44.7	36.4		40.5	29.2	29.7	43.4	26.3		29.3	10.4	
Progression Factor	1.00	1.00		1.00	1.00	1.00	0.76	1.25		1.23	0.15	
Incremental Delay, d2	304.6	0.1		147.8	0.0	0.1	2.6	4.6		0.5	0.5	
Delay (s)	349.3	36.6		188.3	29.3	29.8	35.7	37.5		36.6	2.0	
Level of Service	F	D		F	C	C	D	D		D	A	
Approach Delay (s)		92.6			97.6			37.5			11.2	
Approach LOS		F			F			D			B	

Intersection Summary			
HCM 2000 Control Delay	33.6	HCM 2000 Level of Service	C
HCM 2000 Volume to Capacity ratio	0.72		
Actuated Cycle Length (s)	90.0	Sum of lost time (s)	16.0
Intersection Capacity Utilization	64.5%	ICU Level of Service	C
Analysis Period (min)	15		

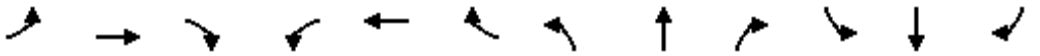
c Critical Lane Group



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (vph)	222	2606	34	18	1900	321	17	8	14	422	9	97
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)	4.0	4.0		4.0	4.0			4.0		4.0	4.0	4.0
Lane Util. Factor	1.00	0.86		1.00	0.86			1.00		1.00	1.00	1.00
Frpb, ped/bikes	1.00	1.00		1.00	1.00			1.00		1.00	1.00	0.99
Flpb, ped/bikes	1.00	1.00		1.00	1.00			1.00		1.00	1.00	1.00
Frt	1.00	1.00		1.00	0.98			0.95		1.00	1.00	0.85
Flt Protected	0.95	1.00		0.95	1.00			0.98		0.95	1.00	1.00
Satd. Flow (prot)	1770	6394		1770	6269			1737		1770	1863	1561
Flt Permitted	0.95	1.00		0.95	1.00			0.98		0.95	1.00	1.00
Satd. Flow (perm)	1770	6394		1770	6269			1737		1770	1863	1561
Peak-hour factor, PHF	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91
Adj. Flow (vph)	244	2864	37	20	2088	353	19	9	15	464	10	107
RTOR Reduction (vph)	0	1	0	0	27	0	0	14	0	0	0	80
Lane Group Flow (vph)	244	2900	0	20	2414	0	0	29	0	464	10	27
Confl. Peds. (#/hr)			1							1		1
Turn Type	Prot	NA		Prot	NA		Split	NA		Split	NA	Perm
Protected Phases	5	2		1	6		8	8		4	4	
Permitted Phases												4
Actuated Green, G (s)	17.7	56.9		2.8	42.0			4.8		27.4	27.4	27.4
Effective Green, g (s)	17.2	58.9		2.3	44.0			4.8		28.0	28.0	28.0
Actuated g/C Ratio	0.16	0.54		0.02	0.40			0.04		0.25	0.25	0.25
Clearance Time (s)	3.5	6.0		3.5	6.0			4.0		4.6	4.6	4.6
Vehicle Extension (s)	2.0	4.0		2.0	4.0			4.0		2.0	2.0	2.0
Lane Grp Cap (vph)	276	3423		37	2507			75		450	474	397
v/s Ratio Prot	c0.14	0.45		0.01	c0.39			c0.02		c0.26	0.01	
v/s Ratio Perm												0.02
v/c Ratio	0.88	0.85		0.54	0.96			0.38		1.03	0.02	0.07
Uniform Delay, d1	45.4	21.7		53.3	32.2			51.2		41.0	30.7	31.1
Progression Factor	0.85	1.07		1.17	0.93			1.00		1.00	1.00	1.00
Incremental Delay, d2	22.5	2.3		7.2	10.0			4.4		50.6	0.0	0.0
Delay (s)	61.0	25.6		69.6	39.8			55.5		91.6	30.7	31.1
Level of Service	E	C		E	D			E		F	C	C
Approach Delay (s)		28.4			40.1			55.5			79.5	
Approach LOS		C			D			E			E	

Intersection Summary			
HCM 2000 Control Delay	37.9	HCM 2000 Level of Service	D
HCM 2000 Volume to Capacity ratio	0.94		
Actuated Cycle Length (s)	110.0	Sum of lost time (s)	16.0
Intersection Capacity Utilization	85.2%	ICU Level of Service	E
Analysis Period (min)	15		

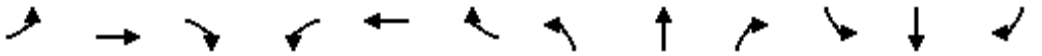
c Critical Lane Group



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (vph)	12	23	25	187	28	232	16	1041	268	429	1228	15
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)	4.0	4.0		4.0	4.0	4.0	4.0	4.0		4.0	4.0	
Lane Util. Factor	1.00	1.00		1.00	1.00	1.00	1.00	0.91		0.97	0.91	
Frpb, ped/bikes	1.00	0.99		1.00	1.00	0.98	1.00	1.00		1.00	1.00	
Flpb, ped/bikes	1.00	1.00		1.00	1.00	1.00	1.00	1.00		1.00	1.00	
Frt	1.00	0.92		1.00	1.00	0.85	1.00	0.97		1.00	1.00	
Flt Protected	0.95	1.00		0.95	1.00	1.00	0.95	1.00		0.95	1.00	
Satd. Flow (prot)	1770	1703		1770	1863	1553	1770	4905		3433	5074	
Flt Permitted	0.95	1.00		0.95	1.00	1.00	0.95	1.00		0.95	1.00	
Satd. Flow (perm)	1770	1703		1770	1863	1553	1770	4905		3433	5074	
Peak-hour factor, PHF	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84
Adj. Flow (vph)	14	27	30	223	33	276	19	1239	319	511	1462	18
RTOR Reduction (vph)	0	27	0	0	0	220	0	46	0	0	1	0
Lane Group Flow (vph)	14	30	0	223	33	56	19	1512	0	511	1479	0
Confl. Peds. (#/hr)			2			5			10			4
Turn Type	Prot	NA		Prot	NA	Perm	Prot	NA		Prot	NA	
Protected Phases	7	4		3	8		5	2		1	6	
Permitted Phases						8						
Actuated Green, G (s)	1.1	7.8		9.5	16.2	16.2	2.6	30.4		23.8	51.6	
Effective Green, g (s)	0.6	9.8		9.0	18.2	18.2	2.1	31.9		23.3	53.1	
Actuated g/C Ratio	0.01	0.11		0.10	0.20	0.20	0.02	0.35		0.26	0.59	
Clearance Time (s)	3.5	6.0		3.5	6.0	6.0	3.5	5.5		3.5	5.5	
Vehicle Extension (s)	1.5	2.0		1.5	2.0	2.0	2.0	4.0		2.0	4.0	
Lane Grp Cap (vph)	11	185		177	376	314	41	1738		888	2993	
v/s Ratio Prot	0.01	0.02		c0.13	0.02		0.01	c0.31		c0.15	0.29	
v/s Ratio Perm						c0.04						
v/c Ratio	1.27	0.16		1.26	0.09	0.18	0.46	0.87		0.58	0.49	
Uniform Delay, d1	44.7	36.4		40.5	29.2	29.7	43.4	27.1		29.0	10.7	
Progression Factor	1.00	1.00		1.00	1.00	1.00	0.75	1.25		1.26	0.15	
Incremental Delay, d2	373.6	0.2		154.3	0.0	0.1	2.9	6.1		0.5	0.5	
Delay (s)	418.3	36.5		194.8	29.2	29.8	35.4	40.0		37.1	2.1	
Level of Service	F	D		F	C	C	D	D		D	A	
Approach Delay (s)		111.8			98.9			39.9			11.0	
Approach LOS		F			F			D			B	

Intersection Summary			
HCM 2000 Control Delay	34.9	HCM 2000 Level of Service	C
HCM 2000 Volume to Capacity ratio	0.74		
Actuated Cycle Length (s)	90.0	Sum of lost time (s)	16.0
Intersection Capacity Utilization	65.6%	ICU Level of Service	C
Analysis Period (min)	15		

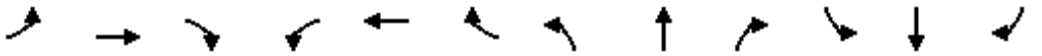
c Critical Lane Group



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (vph)	90	2415	18	20	2736	318	19	5	17	338	9	115
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)	4.0	4.0		4.0	4.0			4.0		4.0	4.0	4.0
Lane Util. Factor	1.00	0.86		1.00	0.86			1.00		1.00	1.00	1.00
Frpb, ped/bikes	1.00	1.00		1.00	1.00			1.00		1.00	1.00	0.99
Flpb, ped/bikes	1.00	1.00		1.00	1.00			1.00		1.00	1.00	1.00
Frt	1.00	1.00		1.00	0.98			0.94		1.00	1.00	0.85
Flt Protected	0.95	1.00		0.95	1.00			0.98		0.95	1.00	1.00
Satd. Flow (prot)	1770	6400		1770	6308			1717		1770	1863	1561
Flt Permitted	0.95	1.00		0.95	1.00			0.98		0.95	1.00	1.00
Satd. Flow (perm)	1770	6400		1770	6308			1717		1770	1863	1561
Peak-hour factor, PHF	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91
Adj. Flow (vph)	99	2654	20	22	3007	349	21	5	19	371	10	126
RTOR Reduction (vph)	0	1	0	0	18	0	0	18	0	0	0	107
Lane Group Flow (vph)	99	2673	0	22	3338	0	0	27	0	371	10	19
Confl. Peds. (#/hr)			1							1		1
Turn Type	Prot	NA		Prot	NA		Split	NA		Split	NA	Perm
Protected Phases	5	2		1	6		8	8		4	4	
Permitted Phases												4
Actuated Green, G (s)	7.8	66.5		2.8	61.5			6.2		16.4	16.4	16.4
Effective Green, g (s)	7.3	68.5		2.3	63.5			6.2		17.0	17.0	17.0
Actuated g/C Ratio	0.07	0.62		0.02	0.58			0.06		0.15	0.15	0.15
Clearance Time (s)	3.5	6.0		3.5	6.0			4.0		4.6	4.6	4.6
Vehicle Extension (s)	2.0	4.0		2.0	4.0			4.0		2.0	2.0	2.0
Lane Grp Cap (vph)	117	3985		37	3641			96		273	287	241
v/s Ratio Prot	c0.06	0.42		0.01	c0.53			c0.02		c0.21	0.01	
v/s Ratio Perm												0.01
v/c Ratio	0.85	0.67		0.59	0.92			0.28		1.36	0.03	0.08
Uniform Delay, d1	50.8	13.4		53.4	20.9			49.8		46.5	39.5	39.8
Progression Factor	0.88	1.15		1.15	0.87			1.00		1.00	1.00	1.00
Incremental Delay, d2	34.3	0.8		13.2	4.0			2.2		183.5	0.0	0.1
Delay (s)	78.9	16.2		74.7	22.2			52.0		230.0	39.5	39.9
Level of Service	E	B		E	C			D		F	D	D
Approach Delay (s)		18.4			22.5			52.0			179.0	
Approach LOS		B			C			D			F	

Intersection Summary			
HCM 2000 Control Delay	32.9	HCM 2000 Level of Service	C
HCM 2000 Volume to Capacity ratio	0.95		
Actuated Cycle Length (s)	110.0	Sum of lost time (s)	16.0
Intersection Capacity Utilization	85.3%	ICU Level of Service	E
Analysis Period (min)	15		

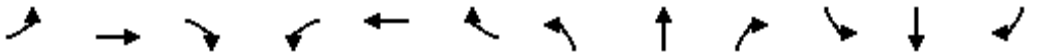
c Critical Lane Group



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (vph)	100	2726	10	20	3180	340	30	10	20	430	10	390
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)	4.0	4.0		4.0	4.0			4.0		4.0	4.0	4.0
Lane Util. Factor	1.00	0.86		1.00	0.86			1.00		1.00	1.00	1.00
Frpb, ped/bikes	1.00	1.00		1.00	1.00			1.00		1.00	1.00	0.99
Flpb, ped/bikes	1.00	1.00		1.00	1.00			1.00		1.00	1.00	1.00
Frt	1.00	1.00		1.00	0.99			0.95		1.00	1.00	0.85
Flt Protected	0.95	1.00		0.95	1.00			0.98		0.95	1.00	1.00
Satd. Flow (prot)	1770	6404		1770	6315			1736		1770	1863	1563
Flt Permitted	0.95	1.00		0.95	1.00			0.98		0.95	1.00	1.00
Satd. Flow (perm)	1770	6404		1770	6315			1736		1770	1863	1563
Peak-hour factor, PHF	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Adj. Flow (vph)	109	2963	11	22	3457	370	33	11	22	467	11	424
RTOR Reduction (vph)	0	0	0	0	13	0	0	13	0	0	0	96
Lane Group Flow (vph)	109	2974	0	22	3814	0	0	53	0	467	11	328
Confl. Peds. (#/hr)			1							1		1
Turn Type	Prot	NA		Prot	NA		Split	NA		Split	NA	Perm
Protected Phases	5	2		1	6		3	3		4	4	
Permitted Phases												4
Actuated Green, G (s)	7.5	76.5		4.2	73.2			5.6		35.6	35.6	35.6
Effective Green, g (s)	7.0	78.5		3.7	75.2			5.6		36.2	36.2	36.2
Actuated g/C Ratio	0.05	0.56		0.03	0.54			0.04		0.26	0.26	0.26
Clearance Time (s)	3.5	6.0		3.5	6.0			4.0		4.6	4.6	4.6
Vehicle Extension (s)	2.0	4.0		2.0	4.0			4.0		2.0	2.0	2.0
Lane Grp Cap (vph)	88	3590		46	3392			69		457	481	404
v/s Ratio Prot	c0.06	c0.46		0.01	c0.60			c0.03		c0.26	0.01	
v/s Ratio Perm												0.21
v/c Ratio	1.24	0.83		0.48	1.12			0.76		1.02	0.02	0.81
Uniform Delay, d1	66.5	25.2		67.2	32.4			66.5		51.9	38.7	48.7
Progression Factor	1.00	1.00		1.00	1.00			1.00		1.00	1.00	1.00
Incremental Delay, d2	173.2	2.3		2.8	60.4			40.3		47.8	0.0	11.2
Delay (s)	239.7	27.6		70.0	92.8			106.8		99.7	38.7	59.9
Level of Service	F	C		E	F			F		F	D	E
Approach Delay (s)		35.1			92.7			106.8			80.3	
Approach LOS		D			F			F			F	

Intersection Summary			
HCM 2000 Control Delay	68.9	HCM 2000 Level of Service	E
HCM 2000 Volume to Capacity ratio	1.07		
Actuated Cycle Length (s)	140.0	Sum of lost time (s)	16.0
Intersection Capacity Utilization	97.8%	ICU Level of Service	F
Analysis Period (min)	15		

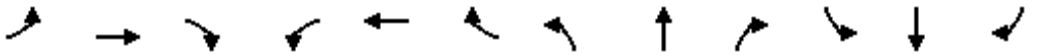
c Critical Lane Group



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (vph)	300	1212	90	308	1150	460	480	843	213	220	708	280
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)	4.0	4.0		4.0	4.0	6.0	4.0	4.0	2.7	4.0	4.0	3.1
Lane Util. Factor	0.97	0.91		0.97	0.91	1.00	0.97	0.95	1.00	0.97	0.95	1.00
Frpb, ped/bikes	1.00	1.00		1.00	1.00	0.98	1.00	1.00	0.99	1.00	1.00	0.99
Flpb, ped/bikes	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Frt	1.00	0.99		1.00	1.00	0.85	1.00	1.00	0.85	1.00	1.00	0.85
Flt Protected	0.95	1.00		0.95	1.00	1.00	0.95	1.00	1.00	0.95	1.00	1.00
Satd. Flow (prot)	3433	5026		3433	5085	1555	3433	3539	1569	3433	3539	1567
Flt Permitted	0.95	1.00		0.95	1.00	1.00	0.95	1.00	1.00	0.95	1.00	1.00
Satd. Flow (perm)	3433	5026		3433	5085	1555	3433	3539	1569	3433	3539	1567
Peak-hour factor, PHF	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
Adj. Flow (vph)	312	1262	94	321	1198	479	500	878	222	229	738	292
RTOR Reduction (vph)	0	7	0	0	0	174	0	0	38	0	0	41
Lane Group Flow (vph)	312	1349	0	321	1198	305	500	878	184	229	738	251
Confl. Peds. (#/hr)			6			5			1			3
Turn Type	Prot	NA		Prot	NA	Perm	Prot	NA	pm+ov	Prot	NA	pm+ov
Protected Phases	5	2		1	6		3	8	1	7	4	5
Permitted Phases						6			8			4
Actuated Green, G (s)	13.5	33.7		13.7	33.9	33.9	14.6	33.0	46.7	10.3	29.1	42.6
Effective Green, g (s)	13.5	35.7		13.7	35.9	33.9	14.6	34.3	49.3	10.3	30.0	44.4
Actuated g/C Ratio	0.12	0.32		0.12	0.33	0.31	0.13	0.31	0.45	0.09	0.27	0.40
Clearance Time (s)	4.0	6.0		4.0	6.0	6.0	4.0	5.3	4.0	4.0	4.9	4.0
Vehicle Extension (s)	2.5	4.0		2.5	4.0	4.0	2.0	2.5	2.5	2.0	2.5	2.5
Lane Grp Cap (vph)	421	1631		427	1659	479	455	1103	703	321	965	632
v/s Ratio Prot	0.09	c0.27		c0.09	0.24		c0.15	c0.25	0.04	0.07	0.21	0.05
v/s Ratio Perm						0.20			0.08			0.11
v/c Ratio	0.74	0.83		0.75	0.72	0.64	1.10	0.80	0.26	0.71	0.76	0.40
Uniform Delay, d1	46.6	34.3		46.5	32.7	32.8	47.7	34.6	19.0	48.4	36.8	23.3
Progression Factor	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Incremental Delay, d2	6.5	5.0		7.0	2.8	6.4	71.8	3.9	0.1	6.1	3.5	0.3
Delay (s)	53.1	39.3		53.5	35.4	39.1	119.5	38.6	19.1	54.5	40.3	23.6
Level of Service	D	D		D	D	D	F	D	B	D	D	C
Approach Delay (s)		41.8			39.2			61.2			39.0	
Approach LOS		D			D			E			D	

Intersection Summary			
HCM 2000 Control Delay	45.2	HCM 2000 Level of Service	D
HCM 2000 Volume to Capacity ratio	0.87		
Actuated Cycle Length (s)	110.0	Sum of lost time (s)	16.0
Intersection Capacity Utilization	84.6%	ICU Level of Service	E
Analysis Period (min)	15		

c Critical Lane Group

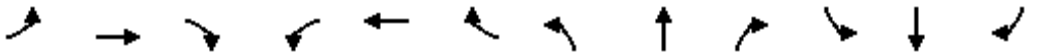


Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (vph)	30	546	310	564	268	708	110	110	1510	606	340	20
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)	4.5	4.0		4.0	4.0	6.0	4.5	4.5	4.5	-1.5	0.0	
Lane Util. Factor	1.00	0.95		0.97	0.95	1.00	1.00	0.91	0.91	0.97	1.00	
Frpb, ped/bikes	1.00	1.00		1.00	1.00	1.00	1.00	0.99	0.99	1.00	1.00	
Flpb, ped/bikes	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Frt	1.00	0.95		1.00	1.00	0.85	1.00	0.87	0.85	1.00	0.99	
Flt Protected	0.95	1.00		0.95	1.00	1.00	0.95	1.00	1.00	0.95	1.00	
Satd. Flow (prot)	1770	3331		3433	3539	1583	1770	2910	1421	3433	1846	
Flt Permitted	0.95	1.00		0.95	1.00	1.00	0.95	1.00	1.00	0.95	1.00	
Satd. Flow (perm)	1770	3331		3433	3539	1583	1770	2910	1421	3433	1846	
Peak-hour factor, PHF	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Adj. Flow (vph)	33	593	337	613	291	770	120	120	1641	659	370	22
RTOR Reduction (vph)	0	72	0	0	0	478	0	188	188	0	2	0
Lane Group Flow (vph)	33	858	0	613	291	292	120	753	632	659	390	0
Confl. Peds. (#/hr)			1						1			3
Turn Type	Prot	NA		Prot	NA	Perm	Prot	NA	Perm	Prot	NA	
Protected Phases	5	2		1	6		3	8		7	4	
Permitted Phases						6			8			
Actuated Green, G (s)	2.4	26.0		16.0	40.1	40.1	12.2	35.5	35.5	12.5	35.3	
Effective Green, g (s)	2.4	28.0		17.0	42.1	40.1	12.2	35.5	35.5	18.5	40.3	
Actuated g/C Ratio	0.02	0.25		0.15	0.38	0.36	0.11	0.32	0.32	0.17	0.37	
Clearance Time (s)	4.5	6.0		5.0	6.0	6.0	4.5	4.5	4.5	4.5	5.0	
Vehicle Extension (s)	3.0	2.0		3.0	2.0	2.0	3.0	3.0	3.0	3.0	3.0	
Lane Grp Cap (vph)	38	847		530	1354	577	196	939	458	577	676	
v/s Ratio Prot	0.02	c0.26		c0.18	0.08		0.07	0.26		c0.19	0.21	
v/s Ratio Perm						0.18			c0.45			
v/c Ratio	0.87	1.01		1.16	0.21	0.51	0.61	1.23dr	1.38	1.14	0.58	
Uniform Delay, d1	53.6	41.0		46.5	22.8	27.2	46.6	34.0	37.2	45.8	28.0	
Progression Factor	1.00	1.00		0.82	1.00	4.52	1.00	1.00	1.00	1.00	1.00	
Incremental Delay, d2	93.8	34.1		86.0	0.3	2.4	5.6	5.0	184.6	83.2	1.2	
Delay (s)	147.5	75.1		124.2	23.2	125.5	52.2	39.1	221.8	129.0	29.2	
Level of Service	F	E		F	C	F	D	D	F	F	C	
Approach Delay (s)		77.6			107.3			119.6			91.8	
Approach LOS		E			F			F			F	

Intersection Summary			
HCM 2000 Control Delay	103.4	HCM 2000 Level of Service	F
HCM 2000 Volume to Capacity ratio	1.17		
Actuated Cycle Length (s)	110.0	Sum of lost time (s)	13.0
Intersection Capacity Utilization	115.2%	ICU Level of Service	H
Analysis Period (min)	15		

dr Defacto Right Lane. Recode with 1 though lane as a right lane.

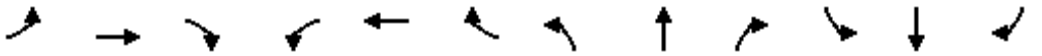
c Critical Lane Group



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (vph)	390	2910	40	20	2330	410	20	10	20	750	10	170
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)	4.0	4.0		4.0	4.0			4.0		4.0	4.0	4.0
Lane Util. Factor	1.00	0.86		1.00	0.86			1.00		1.00	1.00	1.00
Frpb, ped/bikes	1.00	1.00		1.00	1.00			1.00		1.00	1.00	0.99
Flpb, ped/bikes	1.00	1.00		1.00	1.00			1.00		1.00	1.00	1.00
Frt	1.00	1.00		1.00	0.98			0.95		1.00	1.00	0.85
Flt Protected	0.95	1.00		0.95	1.00			0.98		0.95	1.00	1.00
Satd. Flow (prot)	1770	6393		1770	6264			1728		1770	1863	1563
Flt Permitted	0.95	1.00		0.95	1.00			0.98		0.95	1.00	1.00
Satd. Flow (perm)	1770	6393		1770	6264			1728		1770	1863	1563
Peak-hour factor, PHF	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Adj. Flow (vph)	424	3163	43	22	2533	446	22	11	22	815	11	185
RTOR Reduction (vph)	0	1	0	0	23	0	0	17	0	0	0	130
Lane Group Flow (vph)	424	3205	0	22	2956	0	0	38	0	815	11	56
Confl. Peds. (#/hr)			1							1		1
Turn Type	Prot	NA		Prot	NA		Split	NA		Split	NA	Perm
Protected Phases	5	2		1	6		8	8		4	4	
Permitted Phases												4
Actuated Green, G (s)	25.9	69.9		4.2	48.2			6.4		41.4	41.4	41.4
Effective Green, g (s)	25.4	71.9		3.7	50.2			6.4		42.0	42.0	42.0
Actuated g/C Ratio	0.18	0.51		0.03	0.36			0.05		0.30	0.30	0.30
Clearance Time (s)	3.5	6.0		3.5	6.0			4.0		4.6	4.6	4.6
Vehicle Extension (s)	2.0	4.0		2.0	4.0			4.0		2.0	2.0	2.0
Lane Grp Cap (vph)	321	3283		46	2246			78		531	558	468
v/s Ratio Prot	c0.24	0.50		0.01	c0.47			c0.02		c0.46	0.01	
v/s Ratio Perm												0.04
v/c Ratio	1.32	0.98		0.48	1.32			0.48		1.53	0.02	0.12
Uniform Delay, d1	57.3	33.2		67.2	44.9			65.2		49.0	34.5	35.6
Progression Factor	1.00	1.00		1.00	1.00			1.00		1.00	1.00	1.00
Incremental Delay, d2	164.6	11.1		2.8	145.5			6.3		250.0	0.0	0.0
Delay (s)	221.9	44.3		70.0	190.4			71.5		299.0	34.5	35.6
Level of Service	F	D		E	F			E		F	C	D
Approach Delay (s)		65.0			189.5			71.5			248.0	
Approach LOS		E			F			E			F	

Intersection Summary			
HCM 2000 Control Delay	137.6	HCM 2000 Level of Service	F
HCM 2000 Volume to Capacity ratio	1.35		
Actuated Cycle Length (s)	140.0	Sum of lost time (s)	16.0
Intersection Capacity Utilization	120.4%	ICU Level of Service	H
Analysis Period (min)	15		

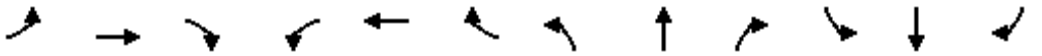
c Critical Lane Group



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (vph)	500	1662	180	476	1124	380	260	948	388	480	1066	200
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)	4.0	4.0		4.0	4.0	6.0	4.0	4.0	2.7	4.0	4.0	3.1
Lane Util. Factor	0.97	0.91		0.97	0.91	1.00	0.97	0.95	1.00	0.97	0.95	1.00
Frpb, ped/bikes	1.00	1.00		1.00	1.00	0.98	1.00	1.00	0.99	1.00	1.00	0.99
Flpb, ped/bikes	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Frt	1.00	0.99		1.00	1.00	0.85	1.00	1.00	0.85	1.00	1.00	0.85
Flt Protected	0.95	1.00		0.95	1.00	1.00	0.95	1.00	1.00	0.95	1.00	1.00
Satd. Flow (prot)	3433	5001		3433	5085	1553	3433	3539	1570	3433	3539	1567
Flt Permitted	0.95	1.00		0.95	1.00	1.00	0.95	1.00	1.00	0.95	1.00	1.00
Satd. Flow (perm)	3433	5001		3433	5085	1553	3433	3539	1570	3433	3539	1567
Peak-hour factor, PHF	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
Adj. Flow (vph)	521	1731	188	496	1171	396	271	988	404	500	1110	208
RTOR Reduction (vph)	0	10	0	0	0	164	0	0	72	0	0	29
Lane Group Flow (vph)	521	1909	0	496	1171	232	271	988	332	500	1110	179
Confl. Peds. (#/hr)			6			5			1			3
Turn Type	Prot	NA		Prot	NA	Perm	Prot	NA	pm+ov	Prot	NA	pm+ov
Protected Phases	5	2		1	6		3	8	1	7	4	5
Permitted Phases						6			8			4
Actuated Green, G (s)	22.5	45.4		18.0	40.9	40.9	11.0	34.3	52.3	18.0	41.7	64.2
Effective Green, g (s)	22.5	47.4		18.0	42.9	40.9	11.0	35.6	54.9	18.0	42.6	66.0
Actuated g/C Ratio	0.17	0.35		0.13	0.32	0.30	0.08	0.26	0.41	0.13	0.32	0.49
Clearance Time (s)	4.0	6.0		4.0	6.0	6.0	4.0	5.3	4.0	4.0	4.9	4.0
Vehicle Extension (s)	2.5	4.0		2.5	4.0	4.0	2.0	2.5	2.5	2.0	2.5	2.5
Lane Grp Cap (vph)	572	1755		457	1615	470	279	933	638	457	1116	766
v/s Ratio Prot	c0.15	c0.38		c0.14	0.23		0.08	0.28	0.07	c0.15	c0.31	0.04
v/s Ratio Perm						0.15			0.14			0.07
v/c Ratio	0.91	1.09		1.09	0.73	0.49	0.97	1.06	0.52	1.09	0.99	0.23
Uniform Delay, d1	55.3	43.8		58.5	40.8	38.6	61.8	49.7	30.1	58.5	46.1	19.9
Progression Factor	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Incremental Delay, d2	18.8	49.7		67.1	2.9	3.7	45.6	46.4	0.6	70.0	25.5	0.1
Delay (s)	74.0	93.5		125.6	43.7	42.2	107.4	96.1	30.7	128.5	71.6	20.0
Level of Service	E	F		F	D	D	F	F	C	F	E	C
Approach Delay (s)		89.3			63.1			82.0			81.3	
Approach LOS		F			E			F			F	

Intersection Summary			
HCM 2000 Control Delay	79.2	HCM 2000 Level of Service	E
HCM 2000 Volume to Capacity ratio	1.09		
Actuated Cycle Length (s)	135.0	Sum of lost time (s)	16.0
Intersection Capacity Utilization	103.1%	ICU Level of Service	G
Analysis Period (min)	15		

c Critical Lane Group



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Volume (vph)	20	25	30	192	30	270	20	1147	286	450	1426	20
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)	4.0	4.0		4.0	4.0	4.0	4.0	4.0		4.0	4.0	
Lane Util. Factor	1.00	1.00		1.00	1.00	1.00	1.00	0.91		0.97	0.91	
Frpb, ped/bikes	1.00	0.99		1.00	1.00	0.98	1.00	1.00		1.00	1.00	
Flpb, ped/bikes	1.00	1.00		1.00	1.00	1.00	1.00	1.00		1.00	1.00	
Frt	1.00	0.92		1.00	1.00	0.85	1.00	0.97		1.00	1.00	
Flt Protected	0.95	1.00		0.95	1.00	1.00	0.95	1.00		0.95	1.00	
Satd. Flow (prot)	1770	1696		1770	1863	1551	1770	4910		3433	5072	
Flt Permitted	0.95	1.00		0.95	1.00	1.00	0.95	1.00		0.95	1.00	
Satd. Flow (perm)	1770	1696		1770	1863	1551	1770	4910		3433	5072	
Peak-hour factor, PHF	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Adj. Flow (vph)	22	27	33	209	33	293	22	1247	311	489	1550	22
RTOR Reduction (vph)	0	30	0	0	0	241	0	42	0	0	1	0
Lane Group Flow (vph)	22	30	0	209	33	52	22	1516	0	489	1571	0
Confl. Peds. (#/hr)			2			5			10			4
Turn Type	Prot	NA		Prot	NA	Perm	Prot	NA		Prot	NA	
Protected Phases	7	4		3	8		5	2		1	6	
Permitted Phases						8						
Actuated Green, G (s)	2.2	7.4		8.7	13.9	13.9	2.7	32.9		22.5	52.7	
Effective Green, g (s)	1.7	9.4		8.2	15.9	15.9	2.2	34.4		22.0	54.2	
Actuated g/C Ratio	0.02	0.10		0.09	0.18	0.18	0.02	0.38		0.24	0.60	
Clearance Time (s)	3.5	6.0		3.5	6.0	6.0	3.5	5.5		3.5	5.5	
Vehicle Extension (s)	1.5	2.0		1.5	2.0	2.0	2.0	4.0		2.0	4.0	
Lane Grp Cap (vph)	33	177		161	329	274	43	1876		839	3054	
v/s Ratio Prot	0.01	0.02		c0.12	0.02		0.01	c0.31		c0.14	0.31	
v/s Ratio Perm						c0.03						
v/c Ratio	0.67	0.17		1.30	0.10	0.19	0.51	0.81		0.58	0.51	
Uniform Delay, d1	43.9	36.8		40.9	31.1	31.6	43.4	24.8		30.0	10.3	
Progression Factor	1.00	1.00		1.00	1.00	1.00	1.00	1.00		1.48	0.25	
Incremental Delay, d2	32.9	0.2		172.1	0.0	0.1	4.2	3.9		0.6	0.5	
Delay (s)	76.8	36.9		213.0	31.1	31.7	47.6	28.7		44.8	3.1	
Level of Service	E	D		F	C	C	D	C		D	A	
Approach Delay (s)		47.6			102.5			29.0			13.0	
Approach LOS		D			F			C			B	

Intersection Summary			
HCM 2000 Control Delay	30.8	HCM 2000 Level of Service	C
HCM 2000 Volume to Capacity ratio	0.72		
Actuated Cycle Length (s)	90.0	Sum of lost time (s)	16.0
Intersection Capacity Utilization	68.9%	ICU Level of Service	C
Analysis Period (min)	15		

c Critical Lane Group

Arterial Level of Service: EB Temecula Parkway

Cross Street	Arterial Class	Flow Speed	Running Time	Signal Delay	Travel Time (s)	Dist (mi)	Arterial Speed	Arterial LOS
Old Town Front St	I	30	10.5	13.8	24.3	0.07	10.0	F
I-15 SB	I	55	5.1	83.7	88.8	0.05	2.1	F
I-15 NB	I	50	15.6	6.8	22.4	0.16	25.1	D
Bedford Ct	I	50	13.3	7.5	20.8	0.13	23.0	D
La Paz Road	I	50	13.6	15.7	29.3	0.14	16.7	E
Pechanga Parkway	I	50	36.8	32.7	69.5	0.45	23.3	D
Jedediah Smith Road	I	50	33.0	28.9	61.9	0.38	22.3	D
Temecula Creek	I	50	33.3	9.9	43.2	0.39	32.3	C
Avenida de Missiones	I	50	26.1	10.8	36.9	0.28	26.8	D
Country Glen	I	55	31.1	7.5	38.6	0.38	35.3	B
Margarita Road	I	55	24.8	37.4	62.2	0.26	14.8	F
Camino Del Sol	I	55	24.5	19.3	43.8	0.25	20.7	E
Total	I		267.7	274.0	541.7	2.93	19.5	E

Arterial Level of Service: WB Temecula Parkway

Cross Street	Arterial Class	Flow Speed	Running Time	Signal Delay	Travel Time (s)	Dist (mi)	Arterial Speed	Arterial LOS
Camino Del Sol	I	55	32.0	10.5	42.5	0.37	31.1	C
Margarita Road	I	55	24.5	32.2	56.7	0.25	16.0	E
Country Glen	I	55	24.8	3.2	28.0	0.26	32.8	C
Avenida de Missiones	I	55	31.1	7.7	38.8	0.38	35.2	B
Temecula Creek	I	50	26.1	3.1	29.2	0.28	33.9	C
Jedediah Smith Road	I	50	33.3	13.9	47.2	0.39	29.5	C
Pechanga Parkway	I	50	33.0	12.4	45.4	0.38	30.5	C
La Paz Road	I	50	36.8	21.9	58.7	0.45	27.6	C
Bedford Ct	I	50	13.6	8.4	22.0	0.14	22.3	D
I-15 NB	I	50	13.3	34.9	48.2	0.13	9.9	F
I-15 SB	I	50	15.6	20.7	36.3	0.16	15.5	F
Old Town Front St	I	50	5.3	5.3	10.6	0.05	17.9	E
Total	I		289.4	174.2	463.6	3.23	25.1	D

APPENDIX D

PHASE I ENVIRONMENTAL SITE ASSESSMENT

PHASE I ENVIRONMENTAL SUBJECT SITE ASSESSMENT

ASTM E: 1527-13

Vacant land on Pechanga Parkway and Wolf Valley Road
in
Temecula, California 92592

CLIENT: Pechanga Office of the General Counsel
P.O. Box 1477
Temecula, CA 92593

PREPARED BY: *Marc Boogay*
Consulting Engineer
1584 Whispering Palm Drive
Oceanside, California 92056
(760) 407-4000

DATE: August 18, 2016

PROJECT NUMBER: 16-0504

ABSTRACT

A Phase I Environmental Subject site Assessment was conducted for the vacant property (the "subject site")[1] to the northwest and southeast of the intersection of Wolf Valley Road near Pechanga Parkway in Temecula, California, also identified by the Assessor Parcel Numbers 961-020-026 and 962-010-007. The purpose of this effort was to conduct "all appropriate inquiries"[2] to identify adverse environmental issues associated with previous ownership and uses of the facility/property prior to a commercial real estate transaction (sale, lease, etc.) or development.

Research for this report included a visit to the subject site and adjacent properties/vicinity, review of available subject site history including building permit records, aerial photographs, and city directories, discussion of the subject site's physical characteristics, and review of regulatory agency records for the potential for "recognized environmental conditions" [3] in connection with the subject site.

Evaluation of the key component of "business environmental risk" [4] was made for the subject site by MBCE (Marc Boogay Consulting Engineer, "the environmental professional"[5], per the specification, ASTM 1527-13).

Environmental concerns were identified for the subject site's history of agricultural use, recent accounts of illegal soil dumping onsite, and nearby/adjacent history of underground tanks including a leaking underground tank with "cleanup completed" status. Risks from these and regional threats were not deemed to represent recognized environmental conditions, and no additional investigative effort is deemed warranted at this time.

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1 The words "offsite" and "onsite" will generally refer to on the subject site; however, appendices provided by Environmental Data Resources (EDR) refer to the subject site as the "target property."

2 "All appropriate inquiry" is intended to permit a *user* to satisfy one of the requirements to qualify for the *innocent landowner*, *contiguous property owner*, or *bona fide prospective purchaser* defenses.

3 **RECs** are defined by the ASTM specification as, " the presence or likely presence of any hazardous substances or petroleum products in, on, or at a property: (1) due to any release to the environment; (2) under conditions indicative of a release to the environment; or (3) under conditions that pose a material threat of a future release to the environment. *De minimis* conditions are not recognized environmental conditions." **Controlled RECs** are past releases that have been addressed to the satisfaction of the applicable regulatory authority (for example, a "no further action" designation has been assigned). Controlled RECs do not imply unrestricted use of the property. **Historical RECs** meet unrestricted use criteria as determined by the applicable regulatory authority.

4 Defined by ASTM E 1527-13 as "a risk which can have a material environmental or environmentally driven impact on the business associated with the current or planned use of commercial real estate, not necessarily limited to those environmental issues required to be investigated in this practice.

5 Defined by ASTM E 1527-13 as a person meeting the education, training, and experience requirements as set forth in 40 CFR §312.10(b).

SIGNATURE

The inspection, research, and data discussion noted in this report were completed by me or under my direction.

Marc Boogay
Principal

August 18, 2016

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1.0 AUTHORIZATION, OBJECTIVE AND APPROACH

This study was conducted in accordance with a contract between *Marc Boogay Consulting Engineer* (MBCE) and *Pechanga Office of the General Counsel* (the "Client"), dated July 28, 2016. It concerns a vacant property (the "subject site"), geographically identified as lots to the northwest and southeast of Wolf Valley Road near its intersection with Pechanga Parkway in Temecula, California. This study was performed in accordance with the scope of American Society of Testing & Materials (ASTM) E 1527-13, Standard Practice for Environmental Subject site Assessments: Phase I Environmental Subject site Assessment Process.

The purpose of this Phase I Environmental Subject site Assessment was to identify recognized environmental conditions in connection with the subject site and for "due diligence" (as defined in the ASTM specification) in judging the likelihood of hazardous substances or petroleum products that may be present in soil, soil vapor [6], or groundwater at the subject site, as could potentially result in an enforced environmental clean-up or environmental liability.

2.0 SCOPE OF WORK

The scope of services for this work is described by the following elements, transcribed from the contract:

- A subject site inspection and vicinity visit, with assessment of the possible presence of soil and groundwater contamination and threats from current or past subject site and vicinity usage.
- A review of readily available (published) regulatory agency records, including lists of CERCLIS and Superfund/SARA subject locations, hazardous waste storage/generation locations, vicinity violations and releases, and leaking underground tanks.
- A review of readily available local government agency records including enforcing UST/AST regulatory agencies, enforcing hazardous materials storage agencies, county/city departments of environmental health, and local departments of Building, Planning, Public Works, and Fire.
- A review of readily available soils, topographic, and geologic/hydrogeologic data for the subject site and vicinity.
- A review of readily available historical information for the subject site, including aerial photographs, interviews, and records regarding on-subject site hazardous materials/wastes.
- Review of documents as provided by the Client, including appraisals, geotechnical and soils reports, chain-of-title information, etc.

[6] Per the ASTM standard, the presence within a building of hazardous substances such as vapors that have migrated into a building from a "release into the environment" (i.e., from a release outside of the building) can result in CERCLA liability.

3.0 SUBJECT SITE RECONNAISANCE

The inspection of the subject site and the adjacent properties/ vicinity was performed on August 5, 2016 by Marc Boogay, of *Marc Boogay Consulting Engineer* ("environmental professional" per the ASTM specification). The subject site comprised two vacant lots separated by Wolf Valley Road.

3.1 Subject site Description

Material in this section was based on a visit to the subject site/vicinity conducted by MBCE. The subject site was only visually inspected; no inspection was completed under floors, behind walls, or above ceilings, etc. or in any areas concealed by obstacles of any kind, e.g., within piled materials or heavy brush. Information concerning presence of hazardous materials may also be noted in Section 3.2.

For purposes of subject site description, approximate compass directions were used. The subject site was on the north and east intersection of Pechanga Parkway Road and Wolf Valley Road. Its surrounding area was characterized by commercial and residential usage.

Inside the subject site building(s):

No subject site buildings were present.

Outside the subject site building(s):

Northwest Lot: On the northwest lot a tractor with a soil disking attachment was present. Soil here appeared to have been recently over turned. Very small amounts of mixed rumble, brick, cement, concrete, pipe, lumber, tile, wire and steel scrap debris were distributed widely across the subject site. Also on this lot, small area appeared to have had sand dumped on it, and another had minimal scrap deriving from the orange plastic mesh of erosion-control wattles. Along the northwest side of Wolf Valley Road, various typical onsite utilities were noted.

Southeast Lot: On the southeast lot a cell phone tower was noted alongside Wolf Valley Road, as well as various other utilities. A drainage inlet was on the southwest side of the lot. Very small piles of asphalt debris and sand were also on this lot. The remains of an unpaved road was interpreted on the northwest border of this lot.

Ancillary structures:

No ancillary structures were noted.

Typical utilities were on or adjacent to the subject site. These appeared to include various telecommunication lines, water, sewer, electricity and natural gas provided by the City of Temecula, local water district, and Southern California Edison.

3.2 Selected Environmental Assessment Issues

Hazardous Materials Storage/Use – This section describes the types, quantities, container types, and storage conditions of hazardous materials observed at the subject site. Hazardous materials were not identified.

Storage tanks – None was observed.

Drains and sumps – None was observed.

Pits, ponds, lagoons, and/or pools of liquids - None was observed.

Interior or exterior stains/corrosion – None was observed.

Distressed vegetation – None was observed.

Odors – None was observed.

Solid wastes – None was observed.

Wells – None was observed.

Engineering Controls – No physical modifications, such as capping, slurry walls, or point-of-use water treatment, were seen at the subject site.

Polychlorinated biphenyls – Polychlorinated biphenyls (PCBs) have historically been found in electrical equipment such as transformers and lighting ballasts. Installations of equipment involving PCBs are much less likely in recent decades. Where present, warning placards are often in place. No transformers on or adjacent to the subject site were noted to have evidence of leakage or placards warning of PCBs. (NOTE: The ASTM standard does not require disclosure of fluorescent lighting ballasts).

3.3 Adjacent Property Observations

The immediate vicinity was characterized by retail/commercial usage.

Properties adjacent to the subject site were as follows:

Northwest Lot:

- To the northeast was a roadway Wolf Creek Drive North and across this was *Temecula Luiseno Elementary School* at 45754 Wolf Creek Drive N.
- To the southwest was a drainage inlet then the roadway Pechanga Parkway across this was residential houses.
- To the east was the intersection of Wolf Valley Creek Drive North and Wolf Valley Road, across this the Riverside County Fire station. North of this intersection was a community park, Wolf Creek Park.
- To the southeast was the roadway Wolf Valley Road across this was the southeast lot of the subject site.

Southeast Lot:

- To the north of the subject site lot was the intersection of Wolf Valley Road and Wolf Creek Drive South, across this was the Wolf Creek Park. To the northeast of this intersection was the Riverside County Fire- Temecula Wolf Creek Station 92 at 32211 Wolf Creek Drive South.
- To the east of the subject site lot was Wolf Creek Drive South and across this were residential houses and a community center identified as Wolf Creek Community Center at 31819 Murdock Lane.

- To the south of the subject site lot was a drainage inlet and a hiking trail called Great Oak Trail; southwest of this was Pechanga Parkway; across this was the *Pechanga Casino* complex.
- To the west was the intersection of Pechanga Parkway and Via Eduardo, across this was residential development.

4.0 HISTORY AND USAGE

A records review was performed to obtain and analyze "reasonably ascertainable"[7] records to help identify recognized environmental conditions in connection with the subject site. Per the ASTM standard, a reasonable attempt was made to identify uses back to 1940 or to the first developed usage. These sections may include the results of additional research completed for adjoining properties, if/as deemed necessary by the environmental professional. Interviews were completed with local government officials as deemed relevant by the environmental professional. Historical resources provided by EDR, where appropriate, are included in appendix VI.

4.1 City/Local Department Records

Building/Planning/Public Works Departments – A records request was sent to the city of Temecula; building permits and fire records were searched under the APNs: 961-020-026 & 962-010-007. The following results were found:

Department of Building and Planning – No records were found for the subject site.

Department of Fire Protection and Safety – No records were found for the subject site.

4.2 County Department of Environmental Health

A records request was submitted to the County of Riverside DEH; no records could be found for the subject site without having a physical address, APNs and geographical locations could not be used. See attachment in Appendix VII.

4.3 Land Use Limitations

Zoning/Land Use – Information obtained from the City of Temecula Zoning Department[i] indicated the subject site is part of its zoning designation SP-12 (Specific Plan-Wolf Creek).

Deed Restrictions –Activity and use limitations (AUL) aim to reduce or eliminate potential exposure to hazardous substances or petroleum products in the soil, soil vapor, groundwater, and/or surface water at the subject site through legal (institutional controls) and physical restrictions (engineering controls). AULs may indicate that hazardous substances or petroleum products have been released at the subject site and that, as a result, unrestricted use of the subject site is not appropriate. California law requires that the Department of Toxic Substances Control (DTSC) notify the planning and building departments of all local governments of any recorded land use restriction ("deed restriction" or restrictive covenants). Included should be any institutional controls that apply to the subject site. On its website [ii], DTSC maintains a list of

[7] Per the ASTM standard, "reasonably ascertainable" information is (1) publicly available, (2) obtainable from its source within reasonable time and cost constraints, and (3) practically reviewable. Information that is "practically reviewable" means that the information is provided by the source in a manner and in a form that, upon examination, yields information relevant to the property without the need for extraordinary data analysis.

land use restrictions, including street addresses or the equivalent description of location. No listings were identified for the subject site or within 500-feet.

4.4 Sanborn Fire Insurance Maps

A search of available maps from a private fire insurance map company, *Sanborn Fire Insurance Maps*, was performed. These typically indicate historical usage. Search of these maps by *Environmental Data Resources* (EDR) indicated no coverage for the subject site.

4.5 Historical Photographs and Topographic Maps

Per the ASTM specification, historical aerial photographs (photographs taken from an aerial platform with "sufficient resolution to allow identification of development and activities of areas encompassing the property") were reviewed. These and historical USGS Topographic Maps were made available by resources from *Environmental Data Resources Inc.* (EDR). Any gaps of greater than five years were due to insufficient data for the specific subject site. A recent aerial photograph noting position of the subject site is presented with all reviewed photographs as appendix IV. The following table lists photographs and interpretations.

Photograph Year	Description
1939	The subject site appeared as agricultural land with a roadway aligned with the current Pechanga Parkway to its-southwest. To the south of the subject site a mound or hill was interpreted, surrounding areas appeared similar.
1946	This image was not interpreted to show material differences from the prior image.
1949	The subject site appeared vacant with slight soil discoloration along its western boundary. Surrounding areas were interpreted similar to the previous image.
1953	The subject site appeared to have striations of different shadings; no other change was noted from the previous image.
1961	The subject site and surrounding areas appeared to be cleared vacant land.
1967	This image was not interpreted to show material differences from the prior image.
1978	The subject site appeared as agricultural land with surrounding areas to the north, west, and south. The areas to the west and south west appeared to be vacant land. A small structure appeared to the east of the subject site.
1985	This image was not interpreted to show material differences from the prior image.
1989	Residential development was interpreted west of the subject site. The subject site appeared to have agricultural usage. A pathway was interpreted to go across the northwestern portion of the subject site. Surrounding areas appeared unchanged from the previous image.
1995	Wolf Valley Road was interpreted to be crossing the subject site as seen today. Development of what is interpreted as a small commercial center was interpreted south of the subject site.
2005	The subject site remained vacant and unchanged except for unidentified materials or small piles in its northwest portion. A concrete drainage inlet was interpreted southwest of the southeast onsite lot. *Pechanga Resort and Casino* appeared to be developed southwest from the subject site. To the north of the subject site, new residential development was interpreted.
2006	Additional residential development was interpreted adjacent to the northwest of the northwest subject site lot. The subject site appeared to be vacant with grassy overgrowth. Areas to the north, east, and southeast appeared unchanged.

Historical Photographs and Topographic Maps Table, cont.

2009	The subject site appeared to have been reworked by disking/harrowing. To the north, north east development of a school and community park area was interpreted. To the east more residential development was interpreted as well with a commercial building on the east corner of Wolf Creek Drive South and Wolf Valley Road. Residential and community areas were also interpreted to the east, and southeast.
2010	Two concrete drainage outlets were observed by the southwest boundary of the subject site. No other material differences from the prior image were noted
2012	This image was interpreted to show onsite and adjoining usage consistent with that seen today.
Several topographical (USGS) maps were also provided by EDR for the years 2012, 1997, 1988, 1982, 1968, 1950, 1949, 1948 and 1901. Illustrations were consistent with aerial photographs. These are presented as part of Appendix I. No significant land usage threats to the subject site were interpreted from these maps.	

4.6 Criss-Cross Street Directories

Cross-referenced ("criss-cross") street directories showing tenancy/ownership of the subject site were researched by EDR; city directories were researched in approximately five-year intervals. The following table describes the type of directory, its publication year, and a summary of subject site tenancies found for the subject site address. Where appropriate, adjacent/nearby offsite usages are noted as may represent environmental risk for the subject site. Listings for adjoining properties were interpreted as consistent with observed and known usages. Directories for 2013, 2008, 2003, 1999, 1995, 1992, 1990, 1985, 1980, and 1975 were reviewed.

No onsite listings were found, subject site has historically been found to be agriculture or vacant land.

Very nearby addresses/tenants of note were:

44564 Pechanga Parkway

2013: HAZIT MINI MARKET/ SUNNYHILLS TOWING/ TEMECULA CREEK RV STORAGE
2008: HAZIT MINI MART
2003: GIUMARRA OF ESCONDIDO

44618 Pechanga Parkway

2013: U STORE IT SELF STORAGE OF TEMECULA
2008: U HAUL CO/ U STORE IT/ U STORE IT MINI WAREHOUSE
2003: OCCUPANT UNKNOWN/ UHAUL CO/ U STORE

45000 Pechanga Parkway

2013: PECHANGA ENTERTAINMENT CENTER/ PECHANGA RESORT & CASINO/ PECHANGA SERVICE STATION
2008: PECHANGA DEVELOPMENT CORP/ PECHANGA INDIAN RESERVATION/ PECHANGA SERVICE STATION/ PERINI BUILDING CO INC.

2003: AHERN RENTALS/ ALLIANCE ROOFING/ PECHANGA DEVELOPMENT CORP/ PECHANGA ENTERTAINMENT CTR/ PECHANGA RV RESORT/ PECHANGA SERVICE STATION/ SHERWOOD MECHANICAL INC.

Results of directories research are provided in Appendix VI.

4.7 Questionnaires and Interviews

Questionnaires - A questionnaire was prepared using a form generated by *Marc Boogay Consulting Engineer* in accordance with the ASTM Practice E 1527-13 specification. One copy of the questionnaire was filled out by MBCE, based on observations made during the subject site/vicinity visit and research conducted as part of this assessment. MBCE also conveyed a questionnaire to the site owner/manager. The owner's questionnaire was filled out by Kelcey Stricker, Pechanga's Environmental Director. Question regarding chemical/processes related to nearby site was answered "no" and that surrounding area is residential. It was stated that the past uses of the site were known. Question regarding specific chemicals at site and environmental cleanups at the site were answered "yes" with a note stating: "soil dumped by *Horizon Solar*- see attached reports". The question regarding above or underground tanks was answered "unknown" with the note "no aboveground storage tanks." The question regarding fill dirt imported from contaminated or unknown origin; which was answered "unknown" with the note "some piled dirt onsite-likely from grading activities onsite". All other questions were answered "no" with the questions "is the purchase price for the site in keeping with fair market value" and "do environmental liens exist against the site" left blank.

Interviews – Per the ASTM standard, interviews are to be conducted with owners, operators, occupants and past occupants (at the discretion of the environmental professional), and/or key subject site managers. The Pechanga's Cultural Resources Monitor Supervisor[iii] was available for interview. The supervisor stated that the site had been vacant.

4.8 Property Tax Files

These refer to files kept for property tax purposes by the local jurisdiction where the subject site is located and may include reports of past ownership, appraisals, maps, sketches, photos, or other information that is *reasonably ascertainable* as defined by the ASTM standard. These were limited to those provided by the Client for review; no historical ownership documents were provided.

4.9 Recorded Land Title Records

Records of historical fee ownership (e.g., leases, and land contracts) on or of the subject site may be of use in environmental subject site assessment. In San Diego County, recorded land title records are filed at the County Recorder (see Section 4.8, above). No title reports or chain-of-title records were supplied by the Client for review.

(The ASTM E 1527-13 standard does not require review of recorded land title records and judicial records for environmental liens or activity and use limitations.)

4.10 Other Historical Records

Other readily available historical records may be reviewed for a Phase I report, e.g., miscellaneous maps, newspaper archives, organizations, etc. None were identified.

5.0 PHYSICAL SETTING

In the following sections, information regarding soils, geology, topography, and groundwater at the subject site is considered. Such information sometimes indicates direction/extent for contaminant migration in groundwater or soil, in the event of a spill or other release.

5.1 Soil

As indicated by soil survey information provided in the EDR report, the subject site appeared to be underlain by coarse sandy loam, with the name, *HANFORD*; it was said to be moderately well drained.

5.2 Geology

EDR's geologic resources indicated the subject site to be underlain by Cenozoic Quaternary with series Quaternary with code Q and a category of stratified sequence.

5.3 Topography

Subject site topography appeared generally level. Further research using EDR's proprietary topographical software showed the subject site to be approximately 1075-feet above mean sea level, generally level with regional slight downward slope towards the general west-northwest.

5.4 Groundwater

Groundwater depth on or near the subject site was deemed likely to migrate in a west-northwest direction. Production wells were identified within 1000-feet south of the subject site. Groundwater levels are shown on the following table with well identification given on EDRs physical setting source map and most recent ground-water measurements. The resulting report is presented in appendix VI.

Well identification	Feet below surface	Notes
A1	62.74	
A2	61.30	
A3	61.00	
A4	211.08	possibly effected by nearby well.
A5	62.58	
A6	62.46	
B13	Not recorded	Well was destroyed
D19	44.08	
D20	43.80	
D21	75.25	

6.0 REGULATORY AGENCY RECORDS REVIEW

Environmental Data Resources Inc. (EDR), an independent firm specializing in governmental database information, was assigned the search of databases for locations, which represent various environmental threats, within distances specified in the American Society for Testing & Materials standard, ASTM E 1527-13. The resulting report is presented in appendix VI, and includes descriptions of all researched sources and maps showing the locations of facilities identified in the database searches. Other information was researched through local sources and other in-house sources. Results of this additional research are presented in Section 6.2.

In general, listings within 1/8-mile of the subject site are considered of particular interest. Releases involving chlorinated hydrocarbons within 1/3-mile of the subject site should be especially considered for potential soil vapor intrusion risk to the subject site.

6.1 EDR Database Review

Many databases were researched by EDR; these were organized by distance from the subject site.

A table summarizing listed threats and potential threats identified in these databases is provided as follows:

The Subject site	
None	0
Listings within 1/8 mile	
RCRA-SQG	2
EDR Hist Auto	2
Listings between 1/8 and 1/4 mile	
INDIAN LUST	1
INDIAN UST	2
Listings between 1/4 and 1/2 mile	
LUST	1
HIST CORTESE	1
Listings between 1/2 and 1 mile	
ENVIROSTOR	2
A listing of databases searched for the subject site is located on Page 4 of the EDR report. Notable listings are further described in the following paragraphs.	

THE SUBJECT SITE

The subject site locations and APNs of 961-020-026 & 962-010-007 were not listed on any databases searched by EDR.

THE SUBJECT SITE VICINITY

Threats to the site were primarily discounted on the basis of distance. Those within 1/8-mile were deemed to represent the greatest potential risk for contaminant migration to the subject site.

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 locations 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 100kg and 1000 kg of hazardous waste per month. Two locations were identified within 1/4-mile; both were within 1/8-mile identified as *Rancho California Water District W122* located at 45395 Pechanga Parkway in Temecula and *Pechanga Entertainment Center* at 45000 Pala Road in Temecula.

State- and tribal - equivalent CERCLIS, or **ENVIROSTOR:** This is Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database; it denotes locations with known contamination or for which there may be

reasons to investigate further. It includes Federal Superfund locations (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School locations. EnviroStor provides similar information to that available in CalSites, and provides additional information, including identification of formerly-contaminated properties released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information used to assess potential impacts to public health and the environment. Two locations were identified within one mile of the subject site; none was within 1/8-mile.

State and tribal leaking storage tank lists
LUST: The Leaking Underground Storage Tank Incident Reports contain an inventory of reported leaking underground storage tank incidents. The data come from the State Water Resources Control Board Leaking Underground Storage Tank Information System. One location was within 1/2-mile of the subject site; this was not within 1/8-mile.

INDIAN LUST: A listing of leaking underground storage tank locations on Indian Land. One location was identified within 1/2-mile of subject site, EDR identified this location outside of the 1/8-mile radius, however maps showed this location was within 1/8-mile. It was identified as *Pechanga Golf Course* at 45000 Pechanga Parkway with a "Cleanup Completed" status. It was also found on the INDIAN UST database under two names; *Backup Generator For* with two diesel tanks for a backup generator and *Pechanga Golf Course* for three tanks with "permanently out of use" status.

INDIAN UST: A listing of underground storage tank locations on Indian Land. Two locations were identified within 1/4-mile of subject site; both locations were within 1/8-mile identified as *Backup Generator For* and *Pechanga Golf Course* (both described above).

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 [CALSITES]. This listing is no longer updated. One location was identified within 1/2-mile of the subject site; this was not within 1/8-mile.

EDR Exclusive Records EDR US Hist Auto Stat: 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. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government record searches. Two locations were identified within 1/8-mile of subject site; those locations were identified as *Pechanga Service Station* at 45000 Pala Road for the years 1999-2002 and *Auto Sweep* at 31353 Huron Street for the years 2005 & 2007.

6.2 Additional Research

Findings from other reviewed resources are summarized as follows.

Oil Fields and Pipelines - Wastes generated during oil drilling and leakage from pipelines were also researched, as they may threaten environmental conditions for a subject site. California State's Division of Oil and Gas (DOG) provided a map [iv] showing oil wells/fields and petroleum product pipelines in California. No production wells were found within a mile radius of subject site.

Provided Documents – The following documents were provided by the Lindsey Fletcher the Associate General Counsel[v] of the Pechanga Indian Reservation and are attached in Appendix VII.

- Aerial image of the subject site lots from 1947; also described by the Associate General was the subject site was used for farming and grazing before surrounding developments and no known structures have been developed on the subject site since this time.
- A map showing nearby faults for seismic/geological activities, no fault lines were found going through the subject site.
- Information regarding the illegal dumping and clean-up of mud by *Horizon Underground, Inc.* in late June 2015. It was noted by the Associate General that Pechanga staff observed Horizon Underground, Inc. illegally dumping soil onto the Wolf Valley Property. Also noted by Pechanga Staff; *Horizon* was performing construction work at nearby Great Oak High School when the incident occurred, the Pechanga Environmental department sampled the dumped soil and had it tested, results of soils test is attached in Appendix VII. The soils test results did not appear to have significant signs of hazardous materials. The Pechanga Staff was able to compel Horizon to remove the dumped soil; Pechanga's staff observed the clean-up, which took place July 22, 2015.

7.0 FINDINGS, DISCUSSION

7.1 Subject site

Observed Conditions – Subject site is currently vacant land. Significant threats from hazardous materials were not observed.

History – The subject site showed a long history of agricultural use and vacant land. This history suggests usage of various agricultural pesticides and chemicals; this was deemed an environmental concern.

Questionnaires/Interviews – Additional concerns in the owner's questionnaire regarding the specific chemicals and soil dumping onsite. Review of the laboratory results of the soil samples taken onsite revealed non-detect for chemicals associated with hazardous materials.

Regulatory Agency Records Review – The subject site was not found on any databases searched by EDR.

7.2 Subject site Vicinity

Observed Conditions – The subject site vicinity was interpreted as commercial, residential and recreational areas. Adjacent to the west is a casino in usage and to the east was an operating fire station.

History – The subject site vicinity appeared to have been long characterized by vacant and agricultural land. There have been recent developments into commercial and residential usage. Threats from subject site vicinity history of previous underground storage leaks and underground storage tanks were not deemed to rise to the level of a recognized environmental condition (see below).

Special additional note regarding risks from soil vapor – Cases have arisen where migration of soil vapors (gasses evolving from volatile chemicals released to the soil) have

affected occupied spaces. This is a growing concern in environmental subject site assessment. Another ASTM specification, No. E2600-10 *Standard Guide for Vapor Encroachment Screening on Property Involved in Real Estate Transactions*, has been incorporated in Phase I reports per the E1527-13 specification; it suggests potentially significant risk from vapor for non-petroleum-hydrocarbon contamination within a 1/3-mile radius, and for petroleum-hydrocarbon contamination within a 1/10-mile radius.

Threats within these radii included releases known to have occurred at the very nearby property, 45000 Pechanga Parkway, a casino and golf course. This location has a history of underground tanks and one confirmed release that has a status of "cleanup completed". These are considered environmental concerns but not recognized environmental conditions.

Physical Characteristics – The subject site's topographic gradient suggested a likely flow direction for groundwater in the west-northwest direction; the address 45000 Pechanga Parkway was deemed likely to be at downgradient with respect to groundwater flow direction; no recognized environmental condition was inferred.

Regulatory Agency Records Review – As presented in Section 6.0, there were a few potential environmental threats listed within search radii. Four were identified within 1/8-mile, with an additional three found within search radii. Two entries were for small quantity generators; another two entries were for EDR Hist Auto (a search for potential gas station/filling station/service stations). The location 45000 Pechanga Parkway, identified as a casino and golf course was found on the EDR database for an INDIAN LUST, with a "cleanup completed" status and INDIAN UST for historical underground tanks and underground tank currently in use. These threats were not deemed to represent recognized environmental conditions.

7.3 Data Gaps

Data gaps comprise inability to obtain mandatory information required by the ASTM standard despite a good faith effort by the environmental professional to do so. Data gaps, if any, are summarized here.

Information regarding the location and extraction of the soil samples of the illegal soil dumping onsite is unknown. There is also no report regarding the full removal of the foreign soil and location on the site where the dumping was taken place. Also, two unanswered questions in the owner's questionnaire were noted.

8.0 CONCLUSIONS AND RECOMMENDATIONS

We have performed a Phase I Environmental Subject site Assessment in conformance with the scope and limitations of ASTM Practice E: 1527-13 for the subject site identified with the geographical location of northwest and southeast of Wolf Valley Road, to the northeast of Pechanga Parkway in Temecula, CA. Any exceptions to, or deletions from, this practice are described in the corresponding section of this report.

This assessment identified a recognized environmental concern for the subject site in regard its history of agricultural usage and illegal soil dumping.

This assessment has revealed recognized environmental conditions as follows:

Recognized environmental conditions:	none
Historical recognized environmental conditions:	none
Controlled recognized environmental conditions:	none

No further action is considered warranted at this time with continued use of the vacant land. If there is to be residential development or other usage involving human exposure to onsite soils, additional work is recommended to assess concentrations of long-lived pesticides such as DDT.

9.0 ENVIRONMENTAL PROFESSIONAL STATEMENT

We declare that, to the best of our professional knowledge and belief, we meet the definition of environmental professionals as defined in 312.10 of 40 CFR 312, with specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the subject site. We have developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.

This report has been prepared with reasonable diligence, reflecting the standards of skill and care typically exercised in the field of environmental assessment. The accuracy or completeness of any report cannot be guaranteed, however, since government records, which provide the basis for much of the subject site research, may be incomplete, inaccurate, or out of date. Also, per the scope of this assessment, no inspection has been made of that which was not easily accessible within the time frame of this report. This assessment is not intended to be exhaustive and uncertainty has not been eliminated.

This work researched only the likelihood of a hazardous waste condition that could result in an enforced cleanup or abatement action. It did not include toxicological or industrial hygiene services and did not assess threats from contact with any hazardous wastes or substances. This investigation does not represent any level of survey for radon, lead-containing dust or paint, molds/allergens, or asbestos.

Due to the likelihood of change in the subject site and subject site vicinity, and the potential for future releases of hazardous materials in the vicinity, this report will become obsolete and, therefore, is intended for use only in the six months following the submittal date. This document is prepared solely for the use of the Client, and shall not be used or relied upon by other individuals, agencies, or organizations, except if and as specifically designated in writing by both Client and Consultant.

10.0 ENDNOTES

[i] City of Temecula Zoning Map, http://laserfiche.cityoftemecula.org/weblink8/2/doc/275679/Electronic.aspx

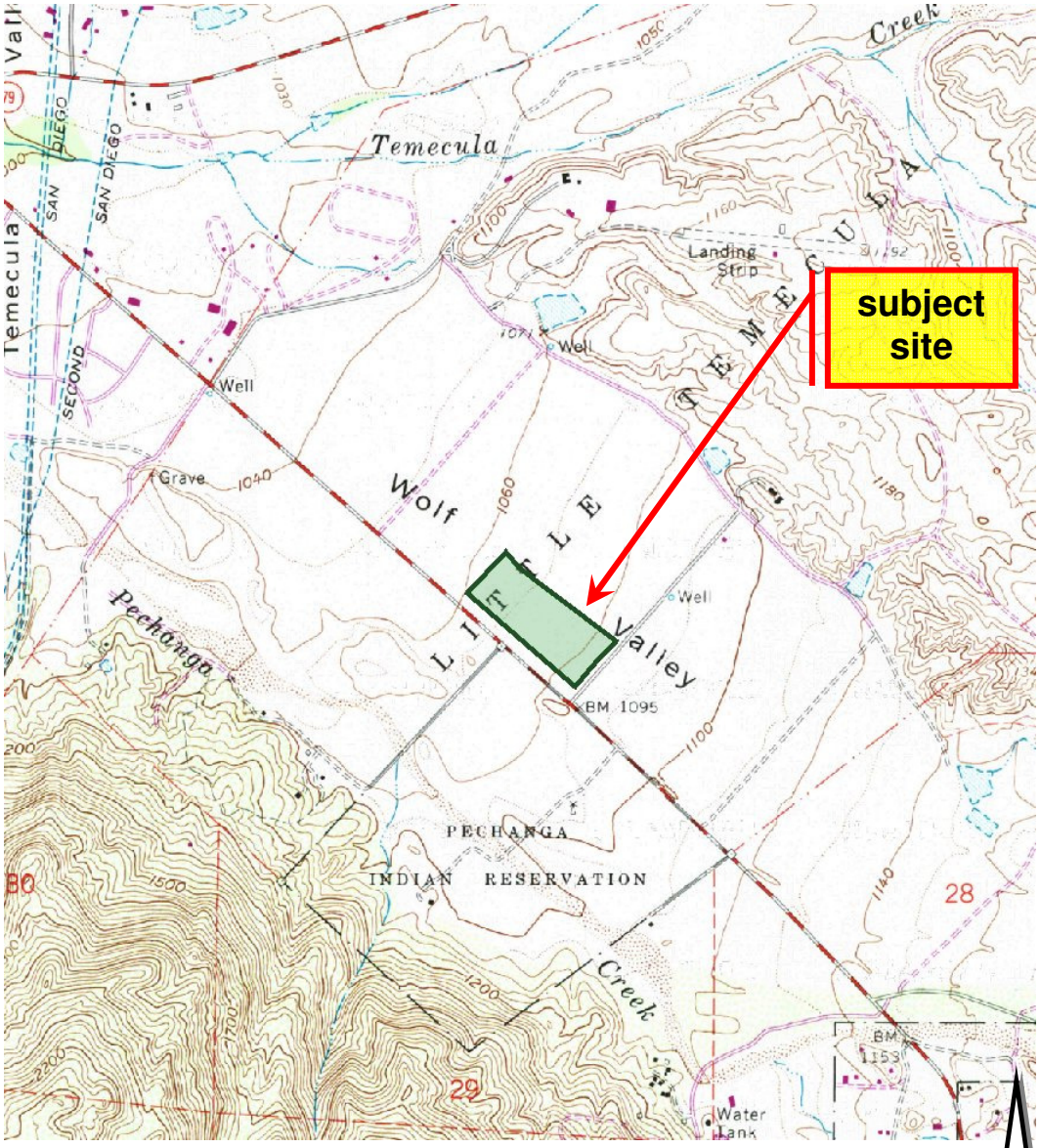
[ii] California Department of Toxic Substances Control, Deed Restrictions, http://www.envirostor.dtsc.ca.gov/public/ .

[iii] Pechanga's Cultural Resources Monitor Supervisor, Tony Foussat, interview conducted by Marc Boogay (MBCE) on August 5, 2016.

[iv] Division I Oil and Gas Maps, Division of Oil, Gas, and Geothermal Resources, California Department of Conservation, 2007, website http://www.consrv.ca.gov/DOG/maps/Pages/d1_index_map1.aspx.

[v] The Associate General Counsel, Lindsey Fletcher of the Pechanga Indian Reservation email of sent documents and statements; dated August 8, 2016.

APPENDIX I **SUBJECT SITE VICINITY MAP, ANNOTATED AERIAL PHOTOGRAPH, AND TOPOGRAPHIC MAP HISTORY**



U.S.G.S Topographical Map, 1988

N

no scale provided

AERIAL PHOTOGRAPH,
annotated with Subject Site features

based on 2012 Aerial Photograph
scale not provided

Pechanga Parkway

Pechanga Pkwy & Wolf Valley Rd

Temecula, CA 92592

Inquiry Number: 4692531.4

August 04, 2016

EDR Historical Topo Map Report

with QuadMatch™

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

EDR Historical Topo Map Report

08/04/16

Site Name:

Pechanga Parkway
Pechanga Pkwy & Wolf Valley
Temecula, CA 92592
EDR Inquiry # 4692531.4

Client Name:

Marc Boogay Cons. Engineers
1584 Whispering Palm Drive
Oceanside, CA 92056
Contact: Marc Boogay

EDR Topographic Map Library has been searched by EDR and maps covering the target property location as provided by Marc Boogay Cons. Engineers were identified for the years listed below. EDR's Historical Topo Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDRs Historical Topo Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the late 1800s.

Search Results:

P.O.# 16-0504
Project: Pechanga Parkway

Coordinates:

Latitude:	33.460385 33° 27' 37" North
Longitude:	-117.106297 -117° 6' 23" West
UTM Zone:	Zone 11 North
UTM X Meters:	490122.07
UTM Y Meters:	3702332.21
Elevation:	1075.00' above sea level

Maps Provided:

2012
1997
1988
1982
1968
1950
1948, 1949
1901

Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

2012 Source Sheets

Pechanga
2012
7.5-minute, 24000

Temecula
2012
7.5-minute, 24000

1997 Source Sheets

Pechanga
1997
7.5-minute, 24000
Aerial Photo Revised 1994

1988 Source Sheets

Pechanga
1988
7.5-minute, 24000
Photo Revised 1988
Aerial Photo Revised 1985

1982 Source Sheets

Pechanga
1982
7.5-minute, 24000
Photo Revised 1982
Aerial Photo Revised 1980

Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1968 Source Sheets

Pechanga
1968
7.5-minute, 24000
Aerial Photo Revised 1967

Temecula
1968
7.5-minute, 24000
Aerial Photo Revised 1967

1950 Source Sheets

Temecula
1950
7.5-minute, 24000
Aerial Photo Revised 1947

Pechanga
1950
7.5-minute, 24000
Aerial Photo Revised 1947

1948, 1949 Source Sheets

Temecula
1948
7.5-minute, 24000
Aerial Photo Revised 1947

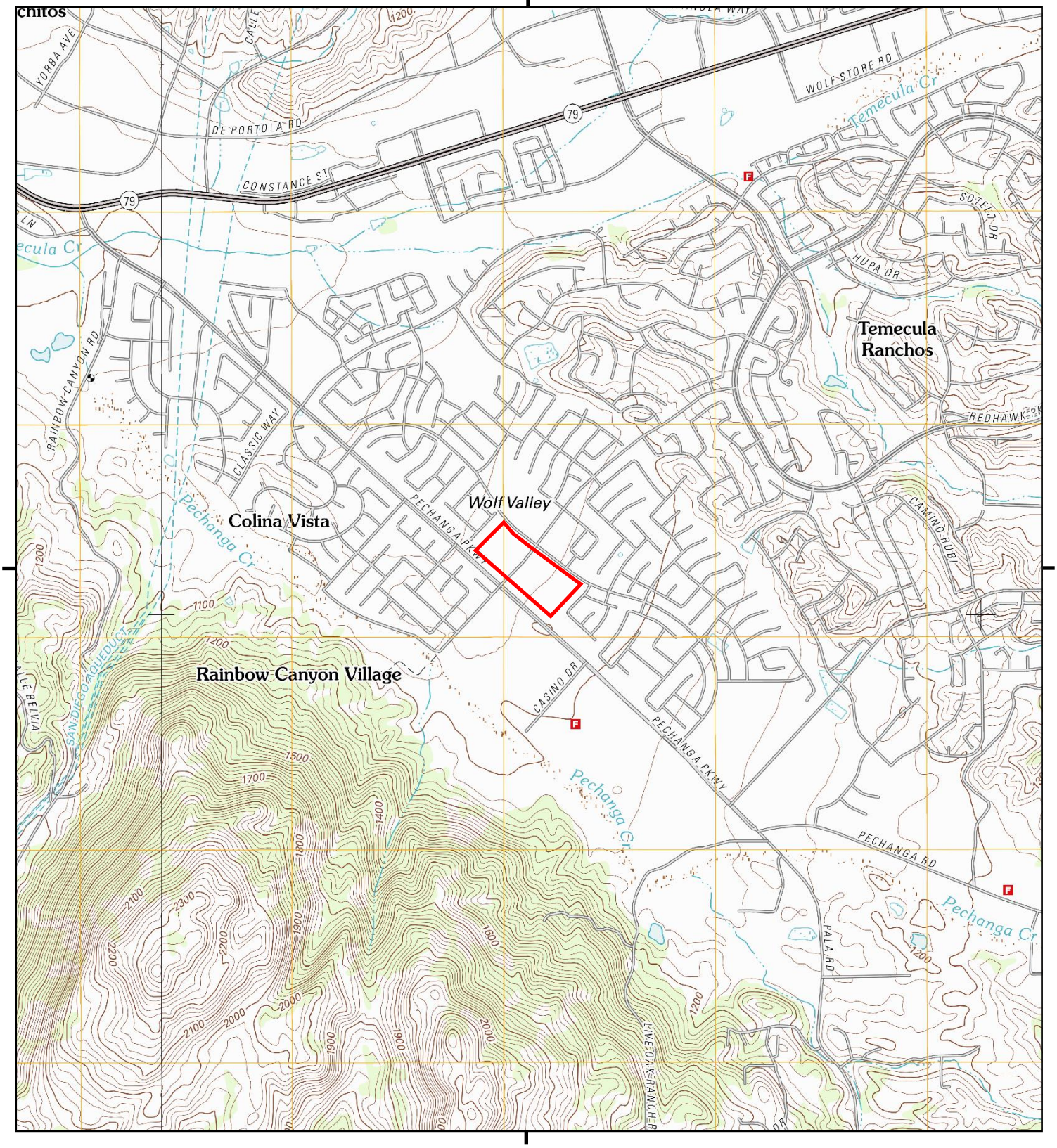
Pechanga
1949
7.5-minute, 24000
Aerial Photo Revised 1947

1901 Source Sheets

San Luis Rey
1901
30-minute, 125000

Historical Topo Map

2012



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

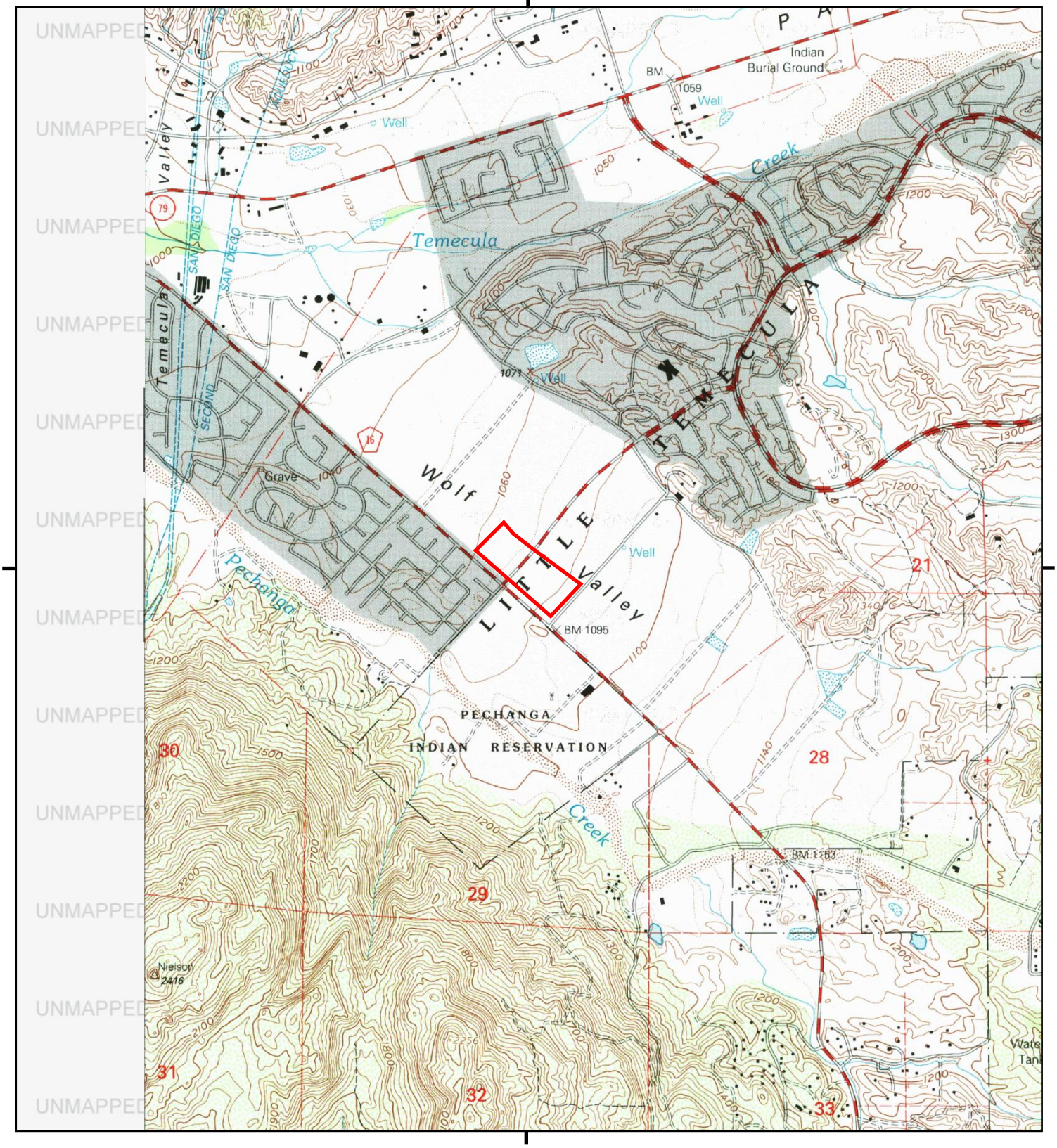
TP, Pechanga, 2012, 7.5-minute
W, Temecula, 2012, 7.5-minute

SITE NAME: Pechanga Parkway
ADDRESS: Pechanga Pkwy & Wolf Valley Rd
Temecula, CA 92592
CLIENT: Marc Boogay Cons. Engineers

N

Historical Topo Map

1997



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0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

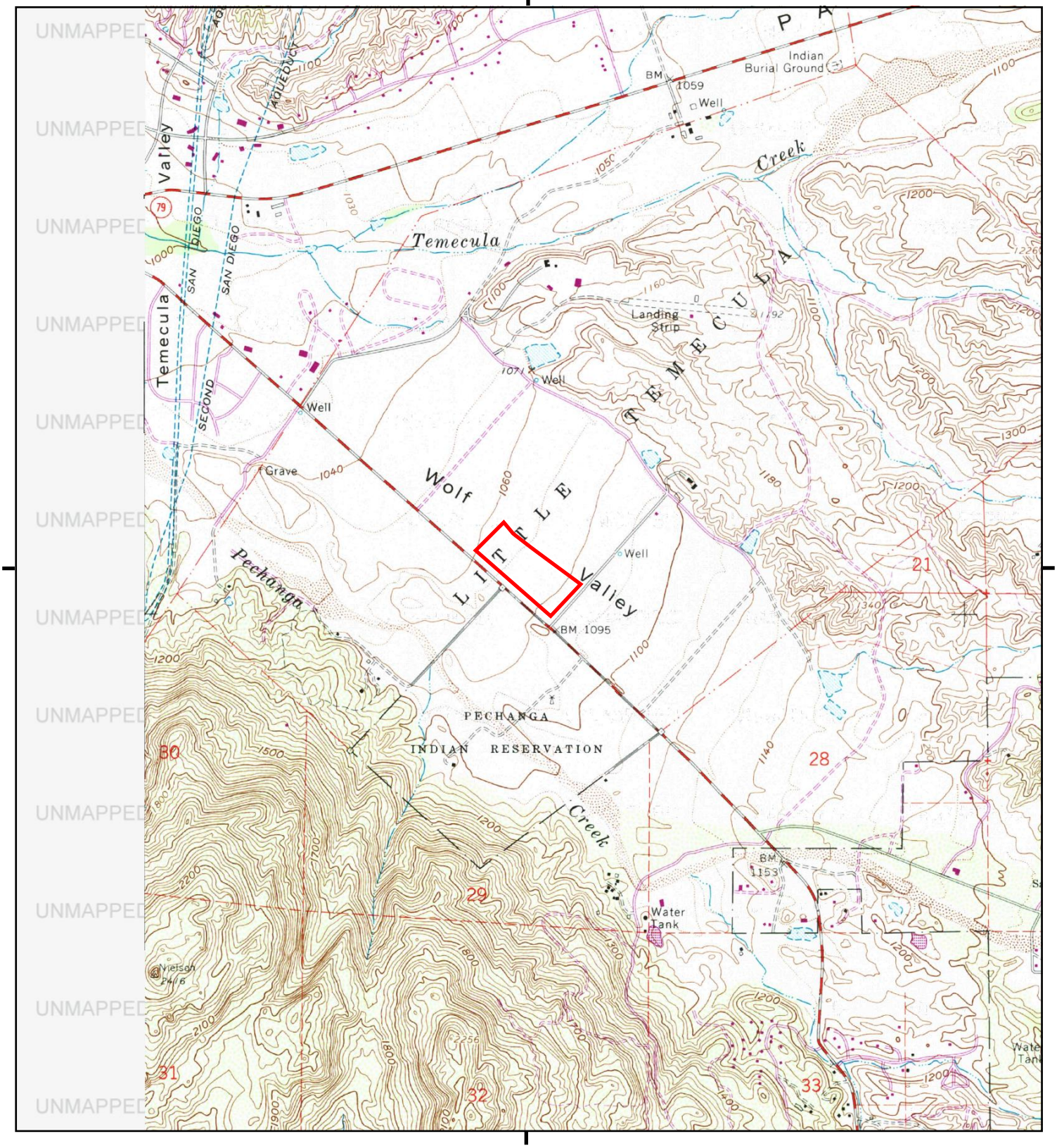
TP, Pechanga, 1997, 7.5-minute

SITE NAME: Pechanga Parkway
ADDRESS: Pechanga Pkwy & Wolf Valley Rd
Temecula, CA 92592
CLIENT: Marc Boogay Cons. Engineers

N

Historical Topo Map

1988



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

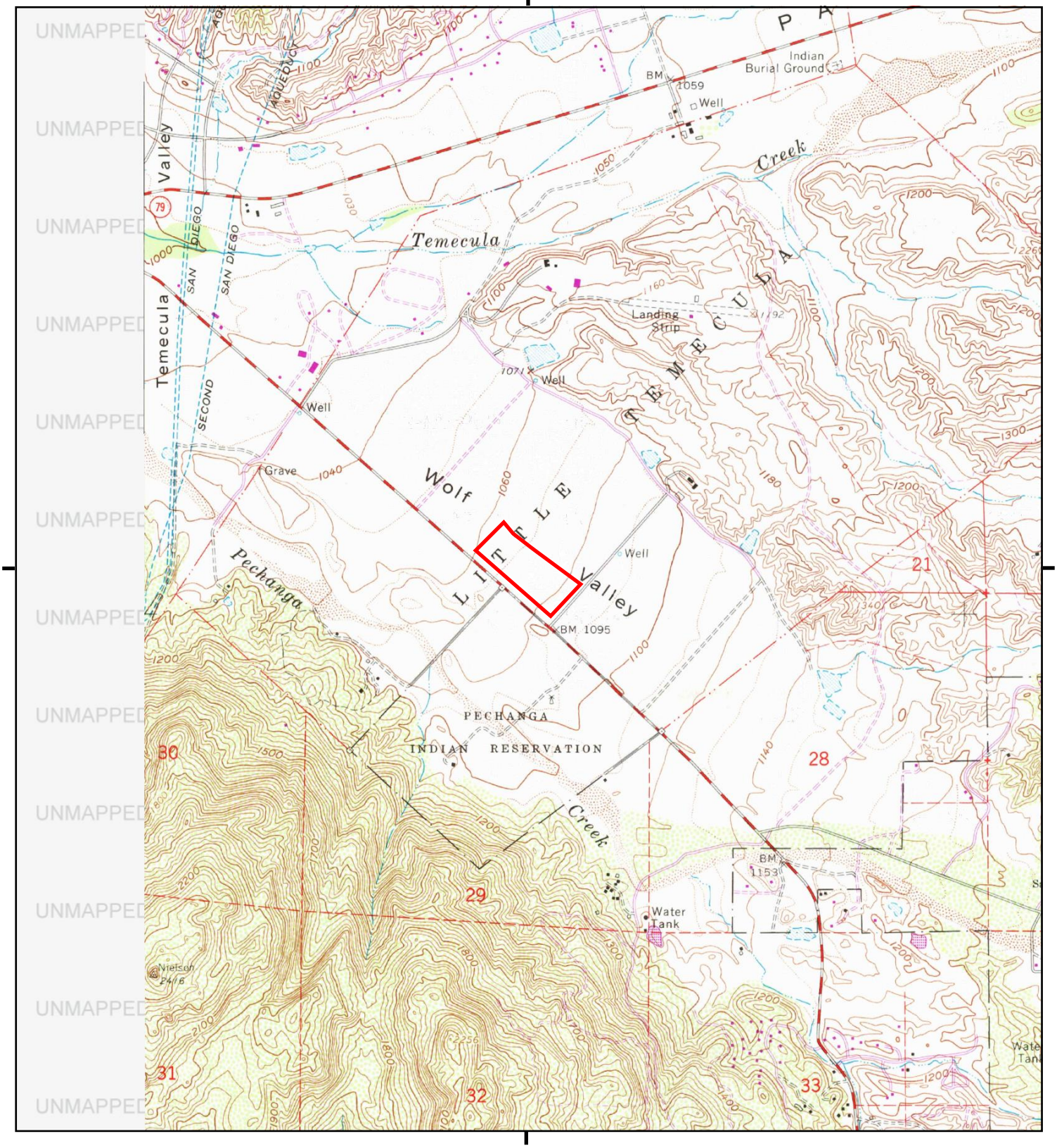
TP, Pechanga, 1988, 7.5-minute

SITE NAME: Pechanga Parkway
ADDRESS: Pechanga Pkwy & Wolf Valley Rd
Temecula, CA 92592
CLIENT: Marc Boogay Cons. Engineers

N

Historical Topo Map

1982



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

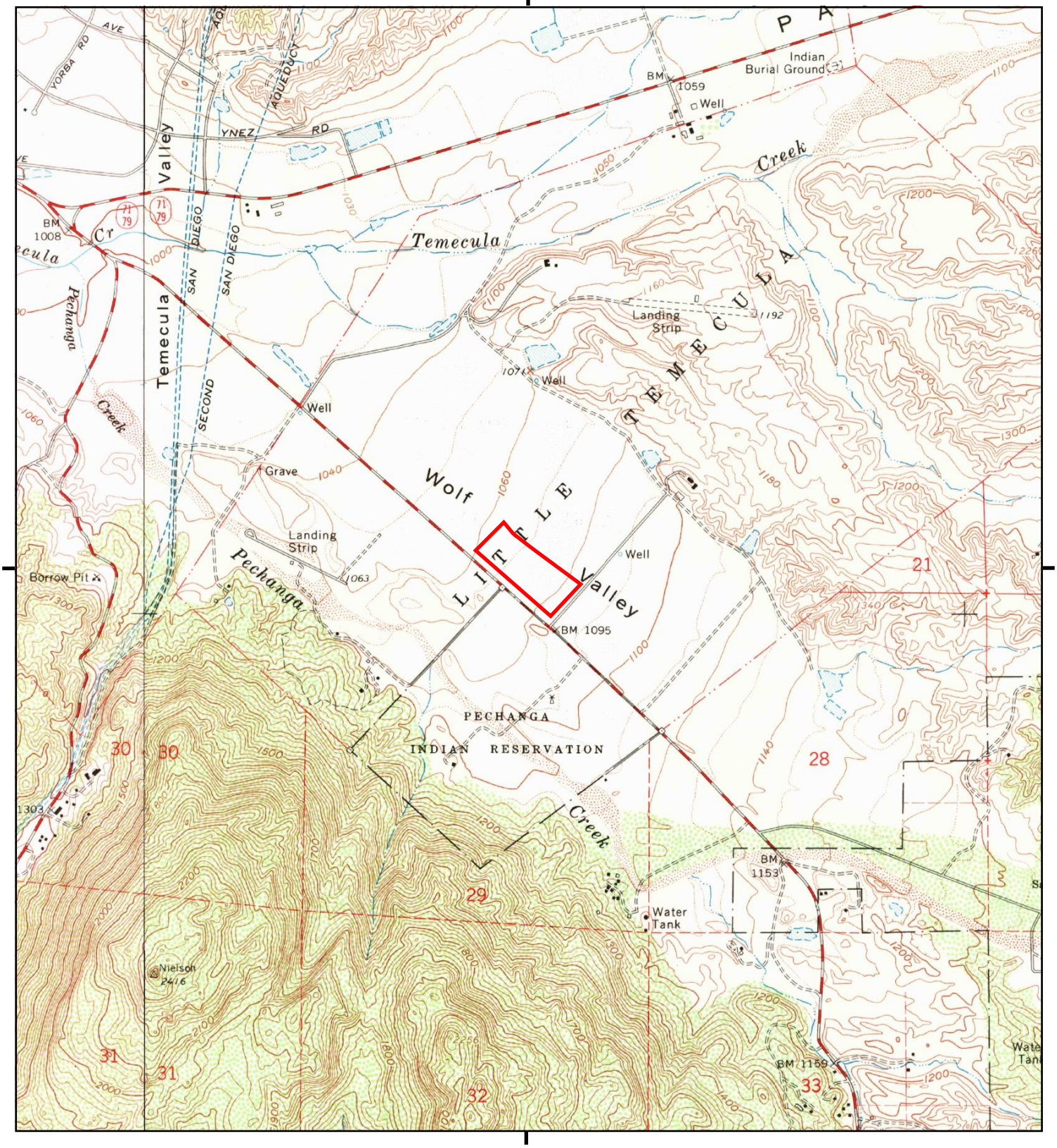
TP, Pechanga, 1982, 7.5-minute

SITE NAME: Pechanga Parkway
ADDRESS: Pechanga Pkwy & Wolf Valley Rd
Temecula, CA 92592
CLIENT: Marc Boogay Cons. Engineers

N

Historical Topo Map

1968



This report includes information from the following map sheet(s).

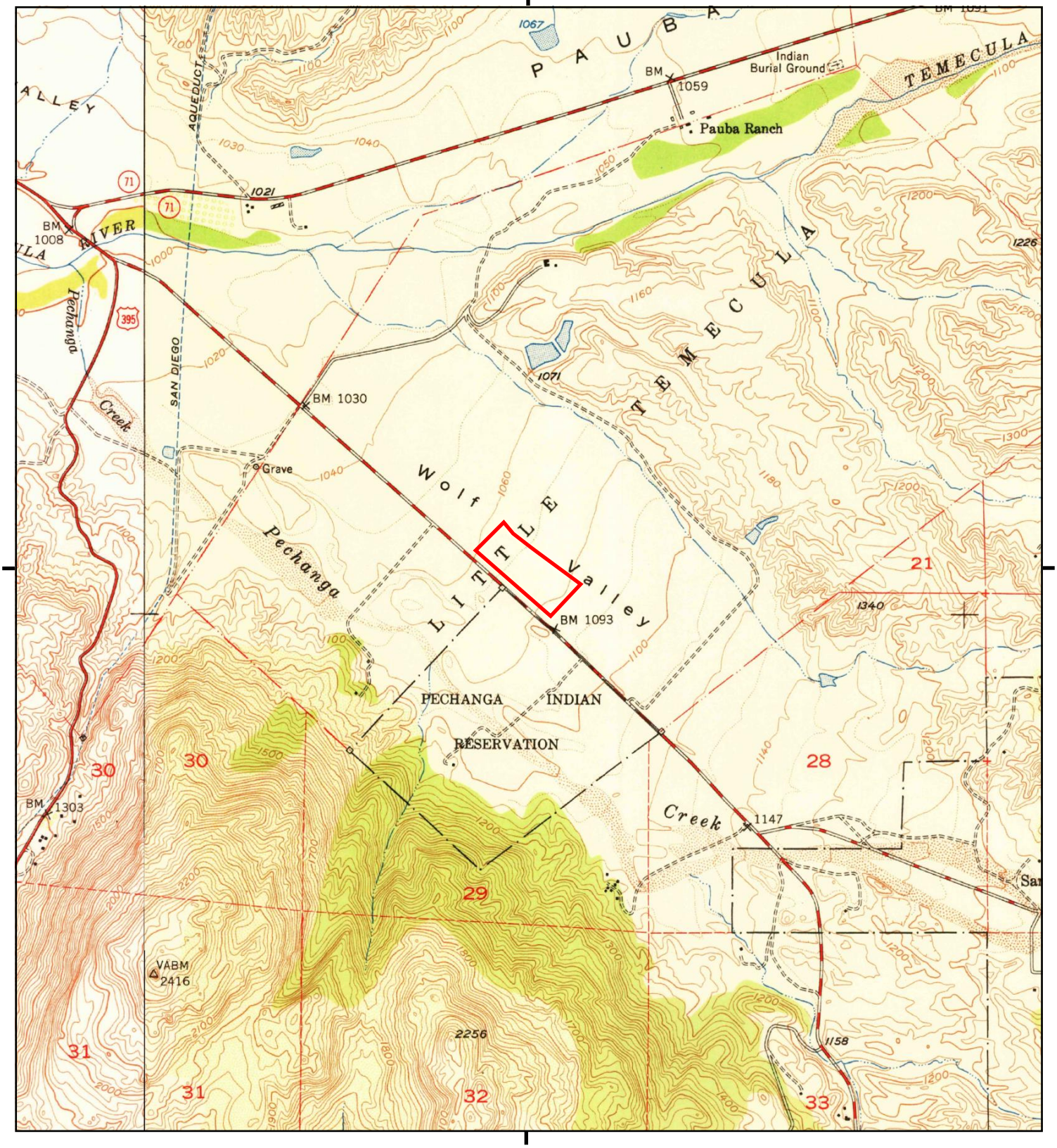
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Pechanga, 1968, 7.5-minute
W, Temecula, 1968, 7.5-minute

SITE NAME: Pechanga Parkway
ADDRESS: Pechanga Pkwy & Wolf Valley Rd
Temecula, CA 92592
CLIENT: Marc Boogay Cons. Engineers

N



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

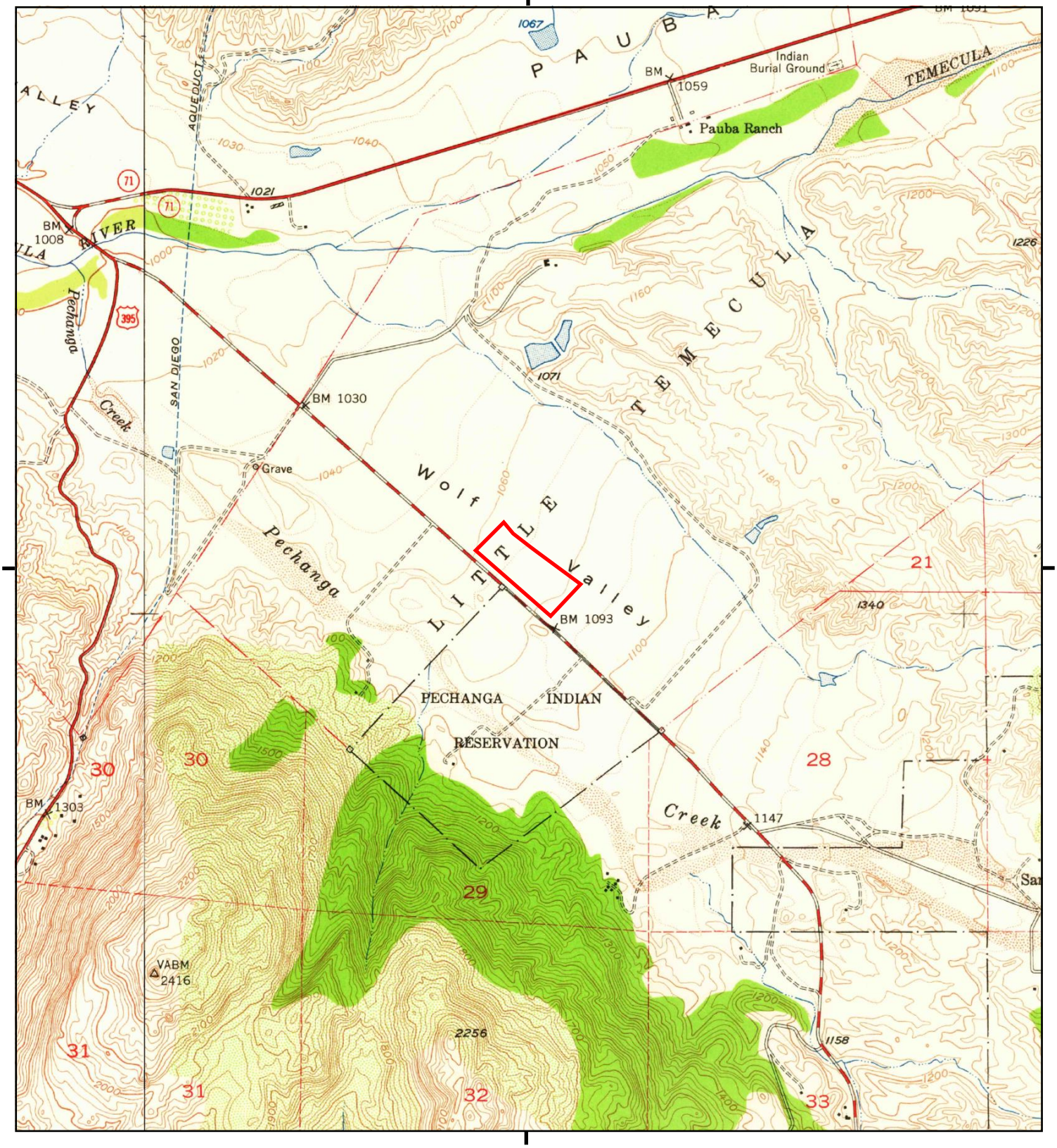
TP, Pechanga, 1950, 7.5-minute
W, Temecula, 1950, 7.5-minute

SITE NAME: Pechanga Parkway
ADDRESS: Pechanga Pkwy & Wolf Valley Rd
Temecula, CA 92592
CLIENT: Marc Boogay Cons. Engineers

N

Historical Topo Map

1948, 1949



This report includes information from the following map sheet(s).

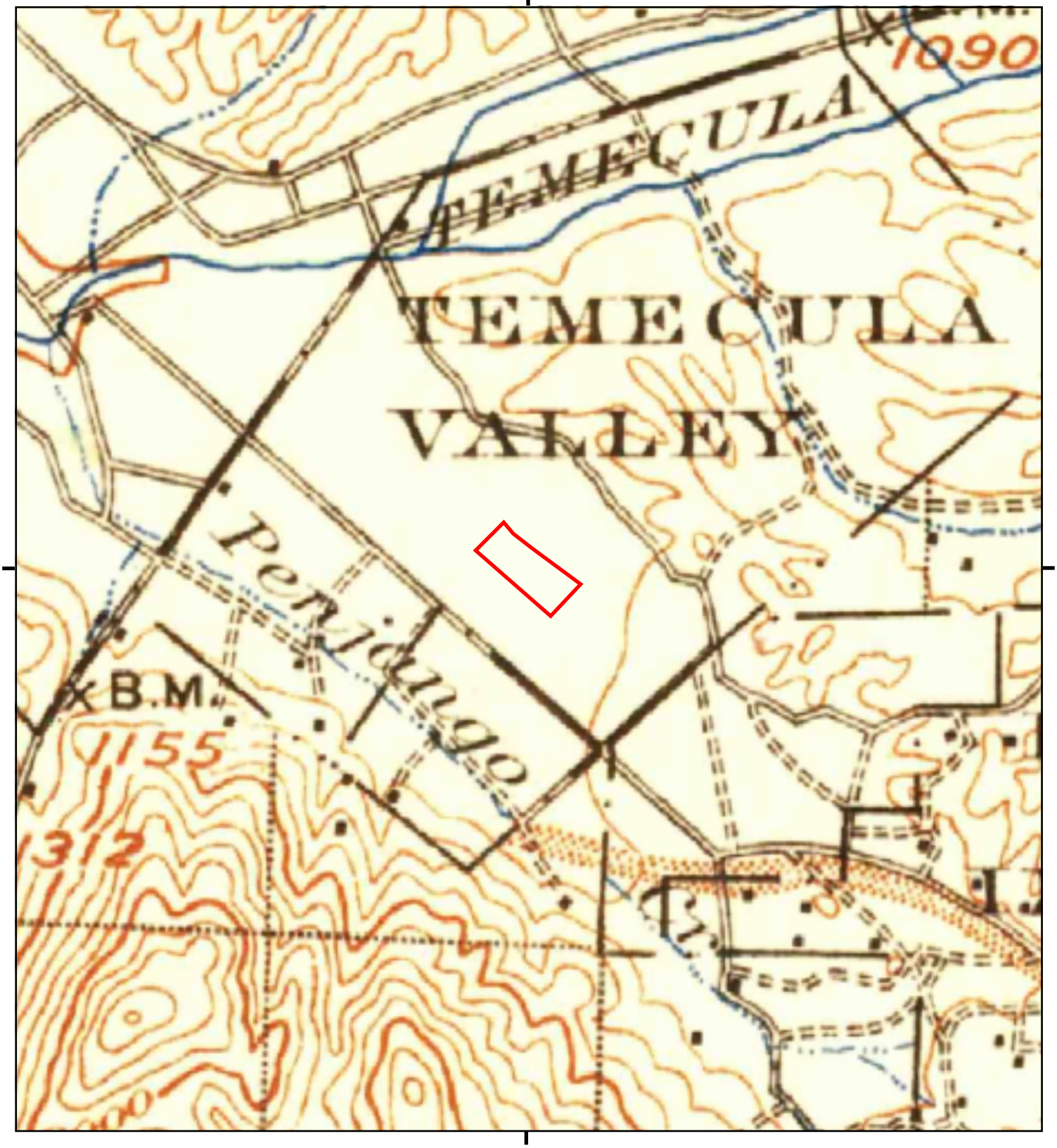
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Pechanga, 1949, 7.5-minute
W, Temecula, 1948, 7.5-minute

SITE NAME: Pechanga Parkway
ADDRESS: Pechanga Pkwy & Wolf Valley Rd
Temecula, CA 92592
CLIENT: Marc Boogay Cons. Engineers

N



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, San Luis Rey, 1901, 30-minute

SITE NAME: Pechanga Parkway
ADDRESS: Pechanga Pkwy & Wolf Valley Rd
Temecula, CA 92592
CLIENT: Marc Boogay Cons. Engineers

N

APPENDIX II SITE PHOTOGRAPHS

Facing northeast along Wolf Valley Road, from near the center of the subject site.

Facing southwest along Wolf Valley Road, from near the center of the subject site.

Facing northwest across Wolf Valley Road, from near the center of the subject site.

Facing southeast across Wolf Valley Road, from near the center of the subject site.

APPENDIX II SUBJECT SITE PHOTOGRAPHS, continued

Facing northeast across Wolf Creek Drive from near the northeast corner of the subject site; Wolf Creek Park.

Facing northwest along Wolf Creek Drive from near the northeast corner of the subject site, partially seen at left.

APPENDIX II SUBJECT SITE PHOTOGRAPHS, continued

Facing north along Wolf Creek Drive from near the northeast corner of the subject site, parts of Temecula Luiseno Elementary School.

Facing southwest along northwest boundary of subject site, seen at left; at right is adjoining offsite residential usage.

APPENDIX II SUBJECT SITE PHOTOGRAPHS

Facing south across subject site from near its northern corner; note scraps of mesh as typically used in erosion control wattles and lighter area in background.

Closer view of lighter area cited above, inferred to be concrete sand or equivalent.

APPENDIX II SUBJECT SITE PHOTOGRAPHS, continued

Facing west from inside the western corner of the subject site; boundary at right taken as block wall, beyond which is adjacent residential usage; boundary at left taken as hedge, beyond which is large drainage swale, Great Oak Trail, a strip of parkland, and Pechanga Parkway.

Detail of adjoining usage northwest from near the western subject site corner, shown above.

APPENDIX II SUBJECT SITE PHOTOGRAPHS, continued

Facing southeast across Wolf Valley Road, bisecting the subject site, shown in foreground and background; typical utility access cabinets for water, street signage, telecommunications.

Facing southeast along southwest boundary of subject site, at left; hedge at right was taken as its boundary; at right is offsite, Great Oak Trail.

APPENDIX II SUBJECT SITE PHOTOGRAPHS, continued

Facing south from inside the southern corner of the subject site; boundary at right taken as hedge, beyond which is large drainage swale, Great Oak Trail, a strip of parkland, Pechanga Parkway, and *Pechanga Casino Complex*; boundary at left is taken as block wall with adjoining residential usage beyond this.

Facing northeast near southeast extent of subject site; adjoining residential usage at right.

APPENDIX II SUBJECT SITE PHOTOGRAPHS, continued

Facing east from inside the eastern corner of the subject site; boundary at left is taken as sidewalk, beyond which is Wolf Creek Drive and residential usage; boundary at right is taken as block wall with adjoining residential usage beyond this.

Facing northeast from the subject site across Wolf Creek Drive; residential usage.

APPENDIX II SUBJECT SITE PHOTOGRAPHS, continued

Facing north from sidewalk along Wolf Creek Drive and northeast subject site boundary; at right is Riverside County Fire Department, Temecula/Wolf Creek Station 92.

Facing southwest along Wolf Valley Road from rear intersection with Wolf Creek Drive; note remains of dirt road interpreted near roadway.

APPENDIX III FIELD INSPECTION CHECKLIST

MARC BOOGAY
Consulting Engineer

FIELD INSPECTION CHECKLIST DATE: August 5, 2016

Vacant Lots on either side of Wolf Valley Road, Temecula, CA
Address City State Zip

none
Major Occupant Phone

none
Present Use

OBSERVED GENERAL FEATURES	YES	NO	NOTES
Buildings		X	
Parking Areas		X	
Roads		X	
Powerlines		X	
Transformers		X	
Fences	X		along SW side; block walls on NW and SE sides
Dry Wells		X	
Water Wells		X	
Monitoring Wells		X	
Oil & Gas Wells		X	
Pipelines		X	
Excavations		X	
Water Towers		X	
Above-ground tanks		X	
Under-ground tanks		X	
Filler Pipes		X	
Vent Pipes		X	
Pumps		X	
Piping		X	

TOPOGRAPHIC/ HYDROGRAPHIC	YES	NO	NOTES
Topography		X	
Slope		X	
Vegetation		X	
Landscaping		X	
Swamps/Wetlands		X	
Springs/Seeps		X	

TOPOGRAPHIC/ HYDROGRAPHIC, continued	YES	NO	NOTES
Ponds/Lagoons		X	
Creeks/Streams		X	

OBSERVED UTILITIES	YES	NO	NOTES
Electricity	X		at edges and along Wolf Valley Rd
Natural Gas	X		
Sewers	X		
Storm Drains		X	
Surface Drainage	X		
Steam		X	
Oil		X	

OBSERVED POTENTIAL PCBs	YES	NO	NOTES
Pad-mounted Transformers		X	
Pole-mounted Transformers		X	
Subterranean Transformers		X	
Hydraulic Equipment		X	
Other Equipment			

HAZARDOUS SUBSTANCES	YES	NO	NOTES
Raw Materials		X	
Consumables		X	
By-Products		X	
Wastes		X	

HAZARDOUS WASTE INDICATORS	YES	NO	NOTES
Distressed Vegetation		X	
Stained Soil		X	

HAZARDOUS WASTE INDICATORS	YES	NO	NOTES
Sumps		X	
Drums		X	
Misc. Containers		X	
Odors		X	
Ash or Burned Areas		X	
Floor Drains		X	
Stained Floor Pavement		X	
Other	X		very minor quantities of windblown refuse and building material scrap were seen in several onsite areas

HAZARDOUS MATERIALS ACTIVITIES	YES	NO	NOTES
Collection		X	
Storage		X	"
Disposal		X	"
Transfer		X	
Treatment		X	
Recycling		X	
Mixing		X	
Assembly Plating		X	
Machining		X	
Cleaning		X	
Degreasing		X	
Sanding		X	
Painting		X	
Spraying		X	

AIR EMISSIONS	YES	NO	NOTES
Stacks		X	
Exhaust Fans		X	
Vents		X	
Other		X	

EVIDENCE OF PAST USE	YES	NO	NOTES
Horticultural Use		X	
Other		X	

OTHER COMMENTS:

APPENDIX IV AERIAL PHOTOGRAPHS

(aerial photo history images follow this sheet)

Source: EDR Aerial Photo Archives, 2012

N

scale not provided

Pechanga Parkway

Pechanga Pkwy & Wolf Valley Rd

Temecula, CA 92592

Inquiry Number: 4692531.9

August 05, 2016

The EDR Aerial Photo Decade Package

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

EDR Aerial Photo Decade Package

08/05/16

Site Name:

Pechanga Parkway
Pechanga Pkwy & Wolf Valley
Temecula, CA 92592
EDR Inquiry # 4692531.9

Client Name:

Marc Boogay Cons. Engineers
1584 Whispering Palm Drive
Oceanside, CA 92056
Contact: Marc Boogay

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

Search Results:

Year	Scale	Details	Source
2012	1"=500'	Flight Year: 2012	USDA/NAIP
2010	1"=500'	Flight Year: 2010	USDA/NAIP
2009	1"=500'	Flight Year: 2009	USDA/NAIP
2006	1"=500'	Flight Year: 2006	USDA/NAIP
2005	1"=500'	Flight Year: 2005	USDA/NAIP
1995	1"=500'	Acquisition Date: October 02, 1995	USGS/DOQQ
1989	1"=500'	Flight Date: August 15, 1989	USDA
1985	1"=500'	Flight Date: February 24, 1985	USDA
1978	1"=500'	Flight Date: September 20, 1978	USDA
1967	1"=500'	Flight Date: May 09, 1967	USDA
1961	1"=500'	Flight Date: July 08, 1961	USDA
1953	1"=500'	Flight Date: August 27, 1953	USDA
1949	1"=500'	Flight Date: May 23, 1949	USDA
1946	1"=500'	Flight Date: December 19, 1946	USGS
1939	1"=500'	Flight Date: April 16, 1939	USDA

When delivered electronically by EDR, the aerial photo images included with this report are for ONE TIME USE ONLY. Further reproduction of these aerial photo images is prohibited without permission from EDR. For more information contact your EDR Account Executive.


INQUIRY #: 4692531.9
YEAR: 2012
= 500'
N
EDR

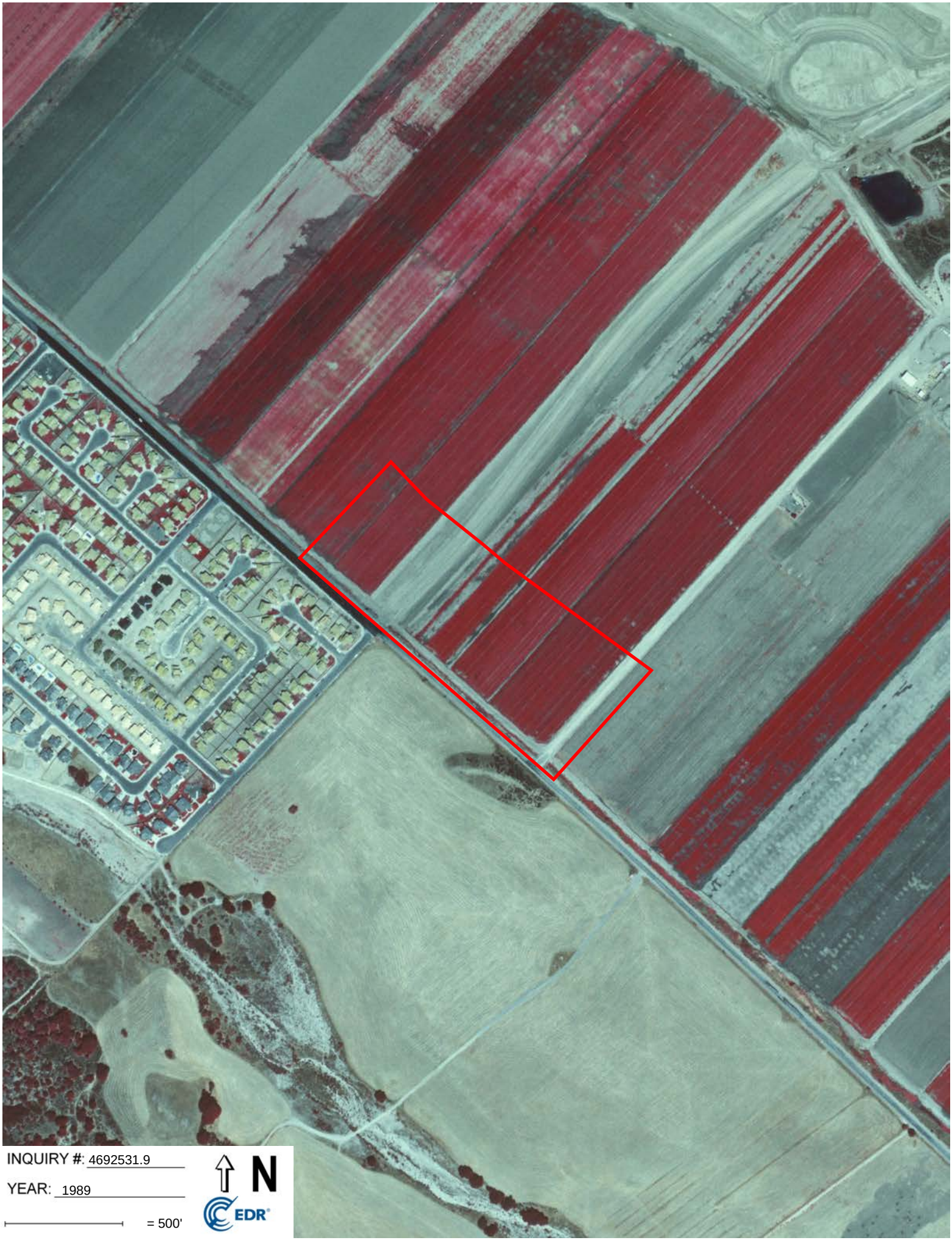

INQUIRY #: 4692531.9
YEAR: 2010
= 500'
N
EDR


INQUIRY #: 4692531.9
YEAR: 2009
= 500'
N
EDR


INQUIRY #: 4692531.9
YEAR: 2006
= 500'
N
EDR


INQUIRY #: 4692531.9
YEAR: 2005
= 500'
N
EDR


INQUIRY #: 4692531.9
YEAR: 1995
= 500'
N
EDR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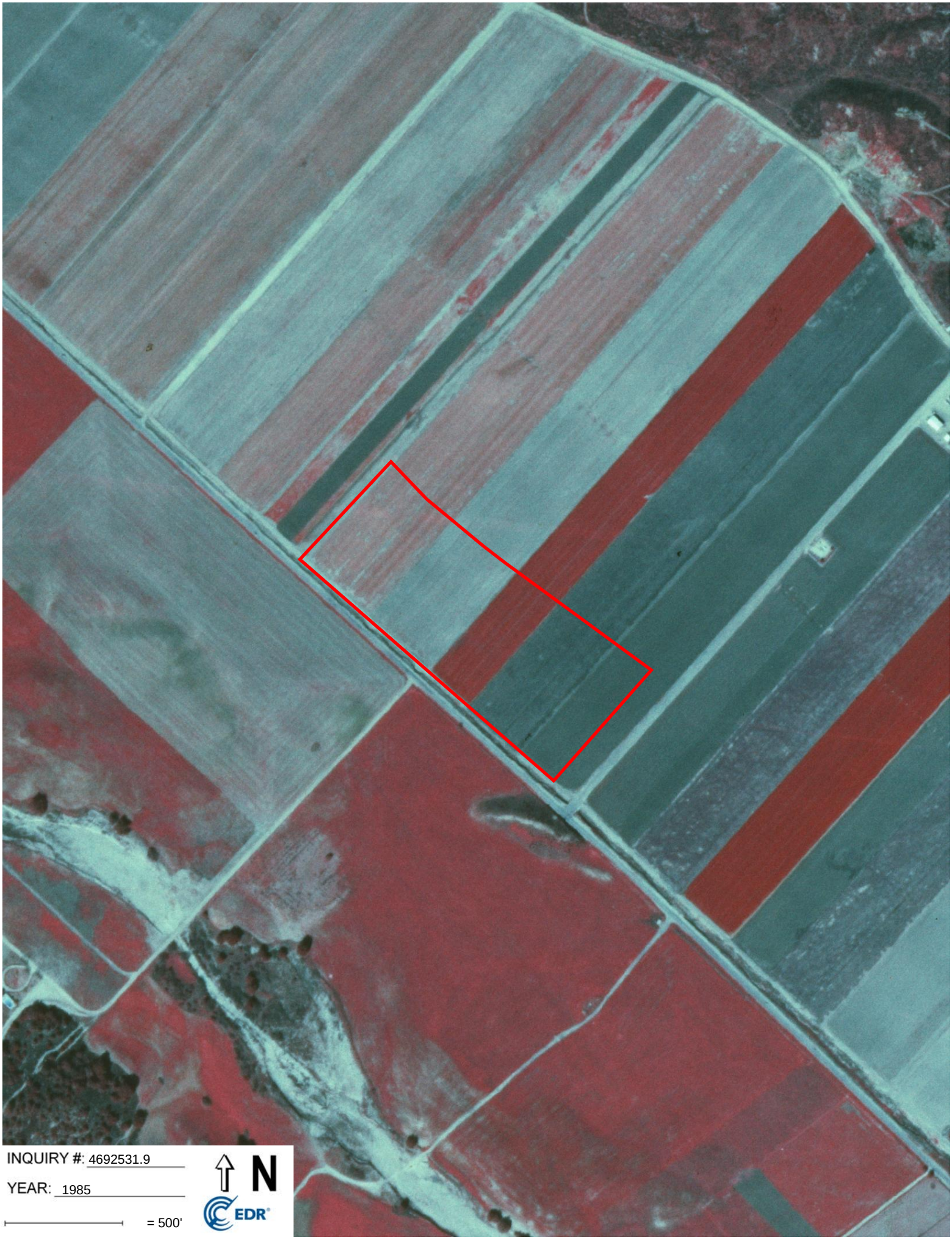
EDR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YEAR: 1985
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EDR


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YEAR: 1978
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EDR

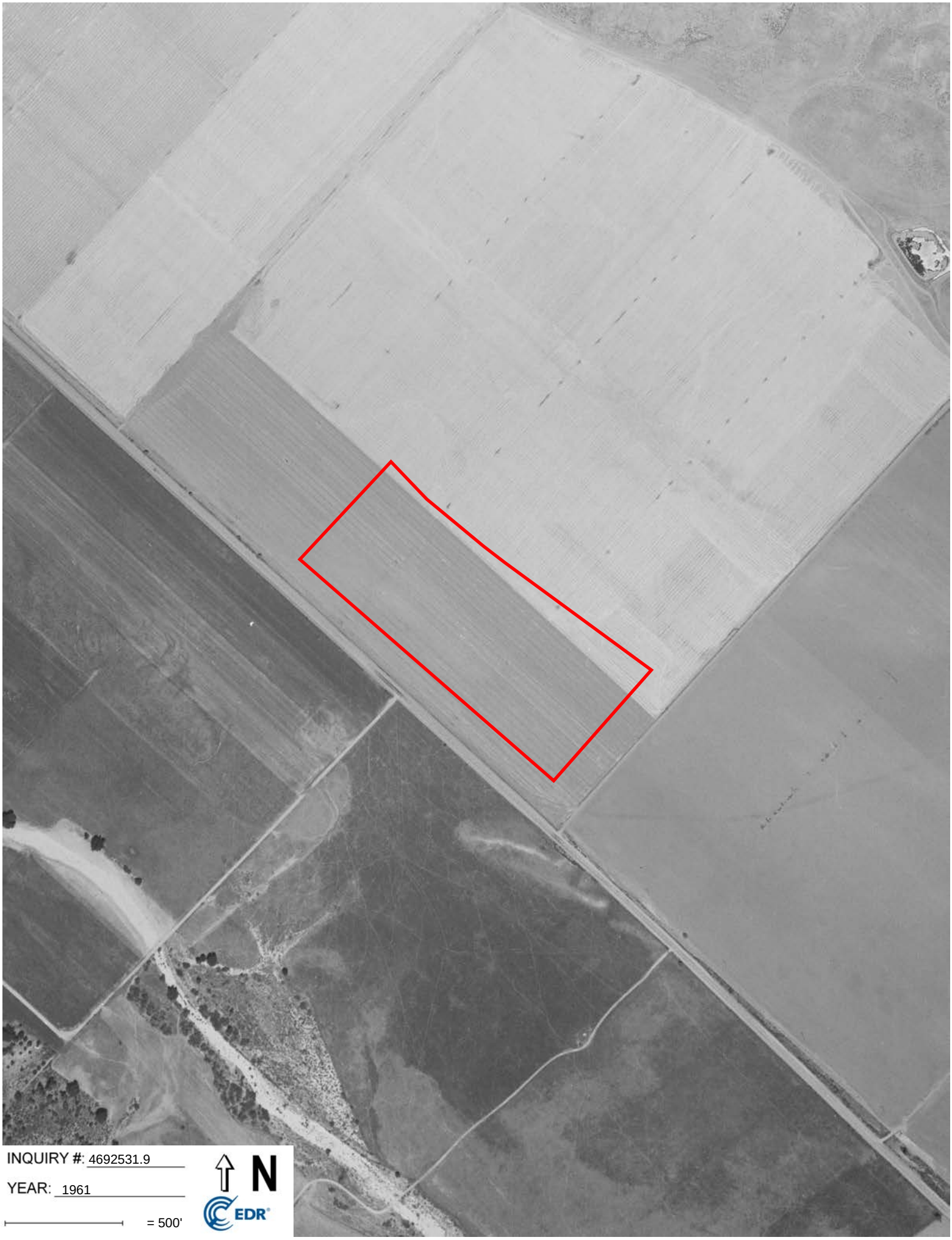
INQUIRY #: 4692531.9

YEAR: 1967

= 500'

N

EDR



INQUIRY #: 4692531.9

YEAR: 1961

= 500'

N

EDR

INQUIRY #: 4692531.9

YEAR: 1953

= 500'

N

EDR

INQUIRY #: 4692531.9

YEAR: 1949

= 500'

N

EDR

INQUIRY #: 4692531.9

YEAR: 1946

= 500'

N

EDR

INQUIRY #: 4692531.9

YEAR: 1939

= 500'

N

EDR

APPENDIX V QUESTIONNAIRE(S)

follow(s) this sheet.

MARC BOOGAY
Consulting Engineer

ENVIRONMENTAL QUESTIONNAIRE

DESCRIPTION OF THE SUBJECT SITE

Vacant Lots on either side of Wolf Valley Road, Temecula, CA
Address City State Zip

none
Major Occupant Phone

none
Present Use

RESPONSES TO THIS QUESTIONNAIRE DERIVE FROM:

(*Circle One)* **Owner / Seller / Tenant / Buyer / Consultant**

Preparer represents that to the best of their knowledge the below statements and facts are true and correct and that no material facts have been suppressed or misstated.

Marc Boogay (MBCE) 1584 Whispering Palm Drive
Name Address

Marc Boogay Consulting Engineer (MBCE) Oceanside CA 92056
Firm City State Zip

8/9/2016 760-407-4000
Signature Date Phone

QUESTION	YES	NO	UNK
1. Has the subject site or any adjoining property had industrial usage?		**X**	
2. Has the subject site or any adjoining property currently been used as a gasoline station, motor repair facility, commercial printing facility, dry cleaners, photo developing laboratory, junkyard or landfill, or as a waste treatment storage, disposal, processing, or recycling facility?		**X**	
3. Have there been damaged or discarded automotive or industrial batteries or pesticides, paints, or other chemicals in individual containers of greater than five gallons in volume or fifty gallons in the aggregate, stored on or used at the subject site?		**X**	
4. Have industrial drums (typically 55 gallon) or sacks of chemicals been located on the subject site?		**X**	
5. Has fill dirt been brought onto the subject site which originated from a contaminated site or which is of an unknown origin?			**X**
6. Have there been previously any, pits, ponds or lagoons located on the subject site for waste treatment or disposal?		**X**	
7. Has there been stained soil on the subject site?		**X**	
8. Have there been registered or unregistered storage tanks (above or underground) on the subject site?		**X**	
9. Have there been vent/fill pipes or indications of a fill pipe protruding from the ground onsite?		**X**	
10. Have there been any flooring, drains, or walls located within the subject site with staining by substances other than water or which have emitted chemical/petroleum odors?		**X**	

UNK = Not Applicable or Unknown or No Response

QUESTION	YES	NO	UNK
11. Have contaminants been identified that exceed guidelines for any onsite private well or non-public water system?		**X**	
12. Does the owner or occupant of the subject site have any knowledge of environmental liens or governmental notification relating to past or current violations of environmental laws with respect to the site or any facility located on the site?			**X**
13. Has the owner or occupant of the subject site been informed of the past or current existence of hazardous substances or petroleum products or environmental violations with respect to the subject site?			**X**
14. Does the owner or occupant of the subject site have any knowledge of any environmental site assessment of the subject site that indicated the presence of hazardous substances or petroleum products on, or contamination of, the subject site or recommended its further assessment?			**X**
15. Does the owner or occupant of the subject site know of past, threatened, or pending lawsuits or administrative proceedings concerning a release of any hazardous substances or petroleum products involving the subject site by any owner or occupant of the subject site?			**X**
16. Does the subject site discharge waste water other than to a storm water or into a sanitary sewer system?			**X**
17. Have any hazardous substances or petroleum products, unidentified waste materials, tires, automotive or industrial batteries or any other waste materials been dumped above grade, buried and/or burned on the subject site?		**X**	
18. Is there a transformer, capacitor or any hydraulic equipment for which there are any records indicating the presence of PCBs?		**X**	

UNK = Not Applicable or Unknown or No Response

"REQUEST FOR BENEFICIAL DOCUMENTS"

INTRODUCTION

Federally promulgated Standards and Practices for All Appropriate Inquiries (40 CFR Part 312) as can apply to Phase I Environmental Site Assessments require the property owner, key site manager and/or user/client be asked if such documents as are listed below exist and, if so, that they be made available for Consultant's review in preparing the Phase I Report. Even partial information may be useful.

Existing Documents as should be reviewed include:

Prior Environmental Site Assessment Reports,

Environmental "Compliance Reports,"

Environmental Permits, e.g., permits for solid waste disposal, hazardous waste disposal, National Pollution Discharge Elimination System (NPDES) discharge, and/or other discharge,

Registration for underground storage tanks and aboveground storage tanks,

Registration for underground injection systems,

Material Safety Data Sheets,

Community right-to-know plans,

Safety plans, Preparedness and Prevention plans; spill prevention/countermeasure/control plans,

Reports regarding geologic or hydrologic conditions on the site or surrounding area.

Notices, liens, correspondence from government agencies relating to violations of environmental law involving the site, or recorded Activity and Use Limitations (AULs),

Hazardous waste generator notices or reports,

Geotechnical Studies or Risk Assessments,

Legal Proceedings Involving the Site, such as pending, threatened, or past litigation relevant to hazardous substances or petroleum products, proceedings relevant to hazardous substances or petroleum products in, on, or from the site, or government notices regarding possible violation of environmental laws or related liabilities from released hazardous substances or petroleum products.

PLEASE PROVIDE COPIES IF/AS AVAILABLE TO
marc@boogay.com or by fax to 760.407.4001

ENVIRONMENTAL QUESTIONNAIRE

Site Address: _____

Information Source: Kelcey Stricker, Environmental Dept

(Please initial bottom of each sheet.)

INTRODUCTION

Landowner Liability Protection (LLPs) offered by the Small Business Liability Relief and Brownfields Revitalization Act of 2001 (the *"Brownfields Amendments "), require the following questionnaire to be requested from individuals identified to be familiar with the site and its history. Please check yes/no/unknown and annotate explanatory details if possible.*

Do environmental cleanup liens exist against the site, filed or recorded under federal, tribal, state or local law?

yes	no	unknown

Have institutional controls or engineering controls or land use limitations (AULs) in place on the site or otherwise filed or recorded under federal, state, or tribal law?

yes	no	unknown
	✓	

Do you have specialized knowledge/experience related to the site or nearby properties, for example, knowledge of chemicals/processes used on or adjoining the site?

N/A - surrounding area is residential

yes	no	unknown
	✓	

Is the purchase price for the site in keeping with fair market value of the site and not reduced due to contamination by hazardous materials/wastes?

yes	no	unknown

Do you have information about the site that would help identify conditions indicative of releases or threatened releases?

yes	no	unknown
	✓	

Do you know the past uses of the site?

yes	no	unknown
✓		

info source please initial KS

PLEASE RETURN TO marc@boogay.com or by fax to 760.407.4001

Do you know specific chemicals as have been present at the site?

yes	no	unknown
✓		

Do you know of spills or other chemical releases taken place at the site?

yes	no	unknown
	✓	

Have there been environmental cleanups at the site?

Soil dumped by Horizon Solar - see attached reports.

yes	no	unknown
✓		

Has the site had aboveground tanks or underground tanks?

No above ground storage tanks

yes	no	unknown
		✓

Has there been automotive repair or body painting done on the site?

yes	no	unknown
	✓	

Has the site been a gasoline station, motor repair facility, commercial printing facility, dry cleaners, photo developing laboratory, junkyard, landfill, used in waste treatment/storage/disposal/processing/recycling?

yes	no	unknown
	✓	

Has fill dirt been imported onto the site which originated from a contaminated site or which is of an unknown origin?

Some piled dirt onsite - likely from grading activities onsite

yes	no	unknown
		✓

Has flooring, drains, or walls located within the site been stained by substances other than water or given off chemical or petroleum odors?

yes	no	unknown
	✓	

Is there a transformer, capacitor or hydraulic equipment for which there are any records indicating the presence of PCBs?

yes	no	unknown
	✓	

info source please initial KS

PLEASE RETURN TO marc@boogay.com or by fax to 760.407.4001

APPENDIX VI *EDR* REPORTS

follow this sheet.

Radius Map
Sanborn Maps
City Directories

Pechanga Parkway
Pechanga Pkwy & Wolf Valley Rd
Temecula, CA 92592

Inquiry Number: 04692531.2r
August 04, 2016

The EDR Radius Map™ Report with GeoCheck®

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

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Detail Map	3
Map Findings Summary	4
Map Findings	8
Orphan Summary	23
Government Records Searched/Data Currency Tracking	GR-1

GEOCHECK ADDENDUM

Physical Setting Source Addendum	A-1
Physical Setting Source Summary	A-2
Physical Setting SSURGO Soil Map	A-5
Physical Setting Source Map	A-17
Physical Setting Source Map Findings	A-19
Physical Setting Source Records Searched	PSGR-1

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

EXECUTIVE SUMMARY

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

TARGET PROPERTY INFORMATION

ADDRESS

PECHANGA PKWY & WOLF VALLEY RD
TEMECULA, CA 92592

COORDINATES

Latitude (North):	33.4603850 - 33° 27' 37.38''
Longitude (West):	117.1062970 - 117° 6' 22.66''
Universal Tranverse Mercator:	Zone 11
UTM X (Meters):	490121.8
UTM Y (Meters):	3702139.5
Elevation:	1075 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	5636481 PECHANGA, CA
Version Date:	2012
West Map:	5640254 TEMECULA, CA
Version Date:	2012

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from:	20140603, 20140530
Source:	USDA

MAPPED SITES SUMMARY

Target Property Address:
PECHANGA PKWY & WOLF VALLEY RD
TEMECULA, CA 92592

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
A1	RANCHO CALIFORMIA WA	45395 PECHANGA PARKW	RCRA-SQG	Higher	293, 0.055, SSE
2		31353 HURON ST	EDR Hist Auto	Lower	494, 0.094, West
A3	PECHANGA ENTERTAINME	45000 PALA RD	RCRA-SQG, FINDS, ECHO	Higher	527, 0.100, SSE
A4		45000 PALA RD	EDR Hist Auto	Higher	527, 0.100, SSE
B5	BACKUP GENERATOR FOR	45000 PECHANGA PARKW	INDIAN UST, FINDS, ECHO	Higher	880, 0.167, South
B6	PECHANGA GOLF COURSE	45000 PECHANGA PARKW	INDIAN LUST, INDIAN UST	Higher	880, 0.167, South
7	TRI WEST/PACIFIC SOD	45620 PALA	LUST, HIST CORTESE	Higher	1843, 0.349, SE
C8	WOLF CREEK MIDDLE SC	LOMA LINDA ROAD/VIA	ENVIROSTOR, SCH	Lower	3385, 0.641, NW
C9	WOLF CREEK ELEMENTAR	LOMA LINDA ROAD/WOLF	ENVIROSTOR, SCH	Lower	3419, 0.648, NW

EXECUTIVE SUMMARY

TARGET PROPERTY SEARCH RESULTS

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

DATABASES WITH NO MAPPED SITES

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

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

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

Federal Delisted NPL site list

Delisted NPL ---------- National Priority List Deletions

Federal CERCLIS list

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

Federal CERCLIS NFRAP site list

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

Federal RCRA CORRACTS facilities list

CORRACTS ---------- Corrective Action Report

Federal RCRA non-CORRACTS TSD facilities list

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

Federal RCRA generators list

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

Federal institutional controls / engineering controls registries

LUCIS ---------- Land Use Control Information System
US ENG CONTROLS ---------- Engineering Controls Sites List
US INST CONTROL ---------- Sites with Institutional Controls

EXECUTIVE SUMMARY

Federal ERNS list

ERNS ---------- Emergency Response Notification System

State- and tribal - equivalent NPL

RESPONSE ---------- State Response Sites

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

SWF/LF ---------- Solid Waste Information System

State and tribal leaking storage tank lists

SLIC ---------- Statewide SLIC Cases

State and tribal registered storage tank lists

FEMA UST ---------- Underground Storage Tank Listing
UST ---------- Active UST Facilities
AST ---------- Aboveground Petroleum Storage Tank Facilities

State and tribal voluntary cleanup sites

INDIAN VCP ---------- Voluntary Cleanup Priority Listing
VCP ---------- Voluntary Cleanup Program Properties

State and tribal Brownfields sites

BROWNFIELDS ---------- Considered Brownfieds Sites Listing

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS ---------- A Listing of Brownfields Sites

Local Lists of Landfill / Solid Waste Disposal Sites

WMUDS/SWAT ---------- Waste Management Unit Database
SWRCY ---------- Recycler Database
HAULERS ---------- Registered Waste Tire Haulers Listing
INDIAN ODI ---------- Report on the Status of Open Dumps on Indian Lands
DEBRIS REGION 9 ---------- Torres Martinez Reservation Illegal Dump Site Locations
ODI ---------- Open Dump Inventory

Local Lists of Hazardous waste / Contaminated Sites

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

US CDL ..... National Clandestine Laboratory Register

Local Lists of Registered Storage Tanks

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

Local Land Records

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

Records of Emergency Release Reports

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

Other Ascertainable Records

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

EXECUTIVE SUMMARY

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

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP ---- EDR Proprietary Manufactured Gas Plants
EDR Hist Cleaner ---- EDR Exclusive Historic Dry Cleaners

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

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

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

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.

EXECUTIVE SUMMARY

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 12/09/2015 has revealed that there are 2 RCRA-SQG sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
RANCHO CALIFORMIA WA	45395 PECHANGA PARKW	SSE 0 - 1/8 (0.055 mi.)	A1	8
PECHANGA ENTERTAINME	***45000 PALA RD***	***SSE 0 - 1/8 (0.100 mi.)***	***A3***	***9***

State- and tribal - equivalent CERCLIS

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

A review of the ENVIROSTOR list, as provided by EDR, and dated 05/02/2016 has revealed that there are 2 ENVIROSTOR sites within approximately 1 mile of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
WOLF CREEK MIDDLE SC Facility Id: 33010006 Status: No Further Action	***LOMA LINDA ROAD/VIA***	***NW 1/2 - 1 (0.641 mi.)***	***C8***	***16***
WOLF CREEK ELEMENTAR Facility Id: 33010005 Status: No Further Action	***LOMA LINDA ROAD/WOLF***	***NW 1/2 - 1 (0.648 mi.)***	***C9***	***19***

State and tribal leaking storage tank lists

LUST: The Leaking Underground Storage Tank Incident Reports contain an inventory of reported leaking underground storage tank incidents. The data come from the State Water Resources Control Board Leaking Underground Storage Tank Information System.

A review of the LUST list, as provided by EDR, has revealed that there is 1 LUST site within

approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
TRI WEST/PACIFIC SOD	***45620 PALA***	***SE 1/4 - 1/2 (0.349 mi.)***	***7***	***14***

Database: LUST REG 9, Date of Government Version: 03/01/2001
Database: LUST, Date of Government Version: 03/14/2016
Database: RIVERSIDE CO. LUST, Date of Government Version: 04/13/2016
Status: Completed - Case Closed
Status: Case Closed
Facility Id: 88124
Global Id: T0606501115
Facility Status: 9
Case Number: 9UT1418
Closed Date: 5/18/89

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

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

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
PECHANGA GOLF COURSE	***45000 PECHANGA PARKW***	***S 1/8 - 1/4 (0.167 mi.)***	***B6***	***12***

Database: INDIAN LUST R9, Date of Government Version: 02/25/2016

State and tribal registered storage tank lists

INDIAN UST: A listing of underground storage tank locations on Indian Land.

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

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
BACKUP GENERATOR FOR	***45000 PECHANGA PARKW***	***S 1/8 - 1/4 (0.167 mi.)***	***B5***	***11***

Database: INDIAN UST R9, Date of Government Version: 02/25/2016

PECHANGA GOLF COURSE	***45000 PECHANGA PARKW***	***S 1/8 - 1/4 (0.167 mi.)***	***B6***	***12***

Database: INDIAN UST R9, Date of Government Version: 02/25/2016

ADDITIONAL ENVIRONMENTAL RECORDS

Other Ascertainable Records

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 [CALSITES]. 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.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
TRI WEST/PACIFIC SOD Reg Id: 9UT1418	***45620 PALA***	***SE 1/4 - 1/2 (0.349 mi.)***	***7***	***14***

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR Hist Auto: 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.

A review of the EDR Hist Auto list, as provided by EDR, has revealed that there are 2 EDR Hist Auto sites within approximately 0.125 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
Not reported	45000 PALA RD	SSE 0 - 1/8 (0.100 mi.)	A4	11

Lower Elevation	Address	Direction / Distance	Map ID	Page
Not reported	31353 HURON ST	W 0 - 1/8 (0.094 mi.)	2	9

EXECUTIVE SUMMARY

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

Site Name	Database(s)
	CDL

OVERVIEW MAP - 04692531.2R

- 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
- Pipelines
- 100-year flood zone
- 500-year flood zone
- National Wetland Inventory
- State Wetlands
- Areas of Concern

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

SITE NAME:	Pechanga Parkway	CLIENT:	Marc Boogay Cons. Engineers
ADDRESS:	Pechanga Pkwy & Wolf Valley Rd Temecula CA 92592	CONTACT:	Marc Boogay
LAT/LONG:	33.460385 / 117.106297	INQUIRY #:	04692531.2r
		DATE:	August 04, 2016 4:19 pm

DETAIL MAP - 04692531.2R

Target Property

Sites at elevations higher than or equal to the target property

Sites at elevations lower than the target property

Manufactured Gas Plants

Sensitive Receptors

National Priority List Sites

Dept. Defense Sites

0 1/16 1/8 1/4 Miles

Indian Reservations BIA

100-year flood zone

500-year flood zone

National Wetland Inventory

State Wetlands

Areas of Concern

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

SITE NAME:	Pechanga Parkway	CLIENT:	Marc Boogay Cons. Engineers
ADDRESS:	Pechanga Pkwy & Wolf Valley Rd Temecula CA 92592	CONTACT:	Marc Boogay
LAT/LONG:	33.460385 / 117.106297	INQUIRY #:	04692531.2r
		DATE:	August 04, 2016 4:20 pm

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMENTAL RECORDS								
Federal NPL site list								
NPL	1.000		0	0	0	0	NR	0
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	0.001		0	NR	NR	NR	NR	0
Federal Delisted NPL site list								
Delisted NPL	1.000		0	0	0	0	NR	0
Federal CERCLIS list								
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
SEMS	0.500		0	0	0	NR	NR	0
Federal CERCLIS NFRAP site list								
SEMS-ARCHIVE	0.500		0	0	0	NR	NR	0
Federal RCRA CORRACTS facilities list								
CORRACTS	1.000		0	0	0	0	NR	0
Federal RCRA non-CORRACTS TSD facilities list								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
Federal RCRA generators list								
RCRA-LQG	0.250		0	0	NR	NR	NR	0
RCRA-SQG	0.250		2	0	NR	NR	NR	2
RCRA-CESQG	0.250		0	0	NR	NR	NR	0
Federal institutional controls / engineering controls registries								
LUCIS	0.500		0	0	0	NR	NR	0
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROL	0.500		0	0	0	NR	NR	0
Federal ERNS list								
ERNS	0.001		0	NR	NR	NR	NR	0
State- and tribal - equivalent NPL								
RESPONSE	1.000		0	0	0	0	NR	0
State- and tribal - equivalent CERCLIS								
ENVIROSTOR	1.000		0	0	0	2	NR	2
State and tribal landfill and/or solid waste disposal site lists								
SWF/LF	0.500		0	0	0	NR	NR	0
State and tribal leaking storage tank lists								
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	1	0	NR	NR	1
SLIC	0.500		0	0	0	NR	NR	0
State and tribal registered storage tank lists								
FEMA UST	0.250		0	0	NR	NR	NR	0
UST	0.250		0	0	NR	NR	NR	0
AST	0.250		0	0	NR	NR	NR	0
INDIAN UST	0.250		0	2	NR	NR	NR	2
State and tribal voluntary cleanup sites								
INDIAN VCP	0.500		0	0	0	NR	NR	0
VCP	0.500		0	0	0	NR	NR	0
State and tribal Brownfields sites								
BROWNFIELDS	0.500		0	0	0	NR	NR	0
ADDITIONAL ENVIRONMENTAL RECORDS								
Local Brownfield lists								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
Local Lists of Landfill / Solid Waste Disposal Sites								
WMUDS/SWAT	0.500		0	0	0	NR	NR	0
SWRCY	0.500		0	0	0	NR	NR	0
HAULERS	0.001		0	NR	NR	NR	NR	0
INDIAN ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
ODI	0.500		0	0	0	NR	NR	0
Local Lists of Hazardous waste / Contaminated Sites								
US HIST CDL	0.001		0	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	0.001		0	NR	NR	NR	NR	0
Toxic Pits	1.000		0	0	0	0	NR	0
US CDL	0.001		0	NR	NR	NR	NR	0
Local Lists of Registered Storage Tanks								
SWEEPS UST	0.250		0	0	NR	NR	NR	0
HIST UST	0.250		0	0	NR	NR	NR	0
CA FID UST	0.250		0	0	NR	NR	NR	0
Local Land Records								
LIENS	0.001		0	NR	NR	NR	NR	0
LIENS 2	0.001		0	NR	NR	NR	NR	0
DEED	0.500		0	0	0	NR	NR	0
Records of Emergency Release Reports								
HMIRS	0.001		0	NR	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
CHMIRS	0.001		0	NR	NR	NR	NR	0
LDS	0.001		0	NR	NR	NR	NR	0
MCS	0.001		0	NR	NR	NR	NR	0
SPILLS 90	0.001		0	NR	NR	NR	NR	0
Other Ascertainable Records								
RCRA NonGen / NLR	0.250		0	0	NR	NR	NR	0
FUDS	1.000		0	0	0	0	NR	0
DOD	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
US FIN ASSUR	0.001		0	NR	NR	NR	NR	0
EPA WATCH LIST	0.001		0	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
TSCA	0.001		0	NR	NR	NR	NR	0
TRIS	0.001		0	NR	NR	NR	NR	0
SSTS	0.001		0	NR	NR	NR	NR	0
ROD	1.000		0	0	0	0	NR	0
RMP	0.001		0	NR	NR	NR	NR	0
RAATS	0.001		0	NR	NR	NR	NR	0
PRP	0.001		0	NR	NR	NR	NR	0
PADS	0.001		0	NR	NR	NR	NR	0
ICIS	0.001		0	NR	NR	NR	NR	0
FTTS	0.001		0	NR	NR	NR	NR	0
MLTS	0.001		0	NR	NR	NR	NR	0
COAL ASH DOE	0.001		0	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
PCB TRANSFORMER	0.001		0	NR	NR	NR	NR	0
RADINFO	0.001		0	NR	NR	NR	NR	0
HIST FTTS	0.001		0	NR	NR	NR	NR	0
DOT OPS	0.001		0	NR	NR	NR	NR	0
CONSENT	1.000		0	0	0	0	NR	0
INDIAN RESERV	0.001		0	NR	NR	NR	NR	0
FUSRAP	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
LEAD SMELTERS	0.001		0	NR	NR	NR	NR	0
US AIRS	0.001		0	NR	NR	NR	NR	0
US MINES	0.250		0	0	NR	NR	NR	0
FINDS	0.001		0	NR	NR	NR	NR	0
DOCKET HWC	0.001		0	NR	NR	NR	NR	0
UXO	1.000		0	0	0	0	NR	0
CA BOND EXP. PLAN	1.000		0	0	0	0	NR	0
Cortese	0.500		0	0	0	NR	NR	0
CUPA Listings	0.250		0	0	NR	NR	NR	0
DRYCLEANERS	0.250		0	0	NR	NR	NR	0
EMI	0.001		0	NR	NR	NR	NR	0
ENF	0.001		0	NR	NR	NR	NR	0
Financial Assurance	0.001		0	NR	NR	NR	NR	0
HAZNET	0.001		0	NR	NR	NR	NR	0
HIST CORTESE	0.500		0	0	1	NR	NR	1
HWP	1.000		0	0	0	0	NR	0
HWT	0.250		0	0	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
MINES	0.001		0	NR	NR	NR	NR	0
MWMP	0.250		0	0	NR	NR	NR	0
NPDES	0.001		0	NR	NR	NR	NR	0
PEST LIC	0.001		0	NR	NR	NR	NR	0
PROC	0.500		0	0	0	NR	NR	0
Notify 65	1.000		0	0	0	0	NR	0
UIC	0.001		0	NR	NR	NR	NR	0
WASTEWATER PITS	0.500		0	0	0	NR	NR	0
WDS	0.001		0	NR	NR	NR	NR	0
WIP	0.250		0	0	NR	NR	NR	0
FUELS PROGRAM	0.250		0	0	NR	NR	NR	0
ECHO	0.001		0	NR	NR	NR	NR	0
EDR HIGH RISK HISTORICAL RECORDS								
EDR Exclusive Records								
EDR MGP	1.000		0	0	0	0	NR	0
EDR Hist Auto	0.125		2	NR	NR	NR	NR	2
EDR Hist Cleaner	0.125		0	NR	NR	NR	NR	0
EDR RECOVERED GOVERNMENT ARCHIVES								
Exclusive Recovered Govt. Archives								
RGA LF	0.001		0	NR	NR	NR	NR	0
RGA LUST	0.001		0	NR	NR	NR	NR	0
- Totals --		0	4	3	2	2	0	11

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

A1
SSE
< 1/8
0.055 mi.
293 ft.

RANCHO CALIFORMIA WATER DISTRICT W122
45395 PECHANGA PARKWAY
TEMECULA, CA 92592

Site 1 of 3 in cluster A

RCRA-SQG | **1010312926** | **CAC002598194**

Relative:
Higher

Actual:
1096 ft.

RCRA-SQG:

Date form received by agency:	02/23/2006
Facility name:	RANCHO CALIFORMIA WATER DISTRICT W122
Facility address:	45395 PECHANGA PARKWAY TEMECULA, CA 92592
EPA ID:	CAC002598194
Mailing address:	P.O. BOX 9017 TEMECULA, CA 92589
Contact:	RICHARD J OTTOLINI
Contact address:	Not reported Not reported
Contact country:	US
Contact telephone:	(951) 296-6900
Telephone ext.:	6962
Contact email:	OTTOLINRR@RANCHOWATER.COM
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:	RANCHO CALIFORMIA WATER DISTRICT
Owner/operator address:	Not reported Not reported
Owner/operator country:	US
Owner/operator telephone:	Not reported
Legal status:	District
Owner/Operator Type:	Operator
Owner/Op start date:	12/23/1986
Owner/Op end date:	Not reported

Owner/operator name:	RANCHO CALIFORNIA WATER DISTRICT
Owner/operator address:	P.O. BOX 9017 TEMECULA, CA 92589
Owner/operator country:	US
Owner/operator telephone:	Not reported
Legal status:	District
Owner/Operator Type:	Owner
Owner/Op start date:	12/23/1986
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

RANCHO CALIFORMIA WATER DISTRICT W122 (Continued) **1010312926**

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

Historical Generators:
Date form received by agency: 02/23/2006
Site name: RANCHO CALIFORMIA WATER DISTRICT W122
Classification: Large Quantity Generator

. Waste code: 121
. Waste name: 121

. Waste code: D002
. Waste name: CORROSIVE WASTE

Violation Status: No violations found

2
West
< 1/8
0.094 mi.
494 ft.

Relative:
Lower

Actual:
1059 ft.

31353 HURON ST **EDR Hist Auto** **1015416621**
TEMECULA, CA 92592 **N/A**

EDR Historical Auto Stations:
Name: AUTO SWEEP
Year: 2005
Address: 31353 HURON ST

Name: AUTO SWEEP
Year: 2007
Address: 31353 HURON ST

A3
SSE
< 1/8
0.100 mi.
527 ft.

Relative:
Higher

Actual:
1092 ft.

PECHANGA ENTERTAINMENT CENTER **RCRA-SQG** **1001231439**
45000 PALA RD **FINDS** **CAR000045526**
TEMECULA, CA 92592 **ECHO**

Site 2 of 3 in cluster A

RCRA-SQG:
Date form received by agency: 10/19/1998
Facility name: PECHANGA ENTERTAINMENT CENTER
Facility address: 45000 PALA RD
TEMECULA, CA 92592
EPA ID: CAR000045526
Contact: TOM JONES
Contact address: 45000 PALA RD
TEMECULA, CA 92592
Contact country: US
Contact telephone: (909) 693-1819
Contact email: Not reported
EPA Region: 09
Classification: Small Small Quantity Generator

PECHANGA ENTERTAINMENT CENTER (Continued) **1001231439**

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:	PECHANGA DEVELOPMENT CORP
Owner/operator address:	45000 PALA RD TEMECULA, CA 92592
Owner/operator country:	Not reported
Owner/operator telephone:	(909) 693-1819
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
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

. Waste code: D001
. Waste name: IGNITABLE WASTE

Violation Status: No violations found

FINDS:

Registry ID: 110002924998

Environmental Interest/Information System

California Hazardous Waste Tracking System - Datamart (HWTS-DATAMART) provides California with information on hazardous waste shipments for generators, transporters, and treatment, storage, and disposal facilities.

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.

PECHANGA ENTERTAINMENT CENTER (Continued) **1001231439**

ECHO:
Envid: 1001231439
Registry ID: 110002924998
DFR URL: http://echo.epa.gov/detailed_facility_report?fid=110002924998

A4 **EDR Hist Auto** **1015502121**
SSE **45000 PALA RD** **N/A**
< 1/8 **TEMECULA, CA 92592**
0.100 mi.
527 ft. **Site 3 of 3 in cluster A**

Relative:
Higher

Actual:
1092 ft.

EDR Historical Auto Stations:

Name: PECHANGA SERVICE STATION
Year: 1999
Address: 45000 PALA RD

Name: PECHANGA SERVICE STATION
Year: 2000
Address: 45000 PALA RD

Name: PECHANGA SERVICE STATION
Year: 2001
Address: 45000 PALA RD

Name: PECHANGA SERVICE STATION
Year: 2002
Address: 45000 PALA RD

B5 **BACKUP GENERATOR FOR PECHANGA CASINO** **INDIAN UST** **1015877909**
South **45000 PECHANGA PARKWAY** **FINDS** **N/A**
1/8-1/4 **TEMECULA, CA 92592** **ECHO**
0.167 mi.
880 ft. **Site 1 of 2 in cluster B**

Relative:
Higher

Actual:
1085 ft.

Indian UST:
Region: 9
Alternate Facility ID: PECH002
Facility Name2: Backup Gen
Tank ID: TANK 1
Tank Status: Currently in Use
Status Date: -
Substance Description: Diesel
Tribe: PECHANGA BAND
Facility County: Not reported
Facility Telephone: (951) 526-6618
Overfill installed: TRUE
Spill installed: TRUE
Date installed: 5/1/2001
Federally Regulated Tank: True

Region: 9
Alternate Facility ID: PECH002
Facility Name2: Backup Gen
Tank ID: TANK 2
Tank Status: Currently in Use
Status Date: -

BACKUP GENERATOR FOR PECHANGA CASINO (Continued) **1015877909**

Substance Description: Diesel
Tribe: PECHANGA BAND
Facility County: Not reported
Facility Telephone: (951) 526-6618
Overfill installed: TRUE
Spill installed: TRUE
Date installed: 5/1/2001
Federally Regulated Tank: False

FINDS:

Registry ID: 110055693673

Environmental Interest/Information System
STATE MASTER

Registry ID: 110045460577

Environmental Interest/Information System
ICIS (Integrated Compliance Information System) is the Integrated Compliance Information System and provides a database that, when complete, will contain integrated Enforcement and Compliance information across most of EPA's programs. The vision for ICIS is to replace EPA's independent databases that contain Enforcement data with a single repository for that information. Currently, ICIS contains all Federal Administrative and Judicial enforcement actions. This information is maintained in ICIS by EPA in the Regional offices and it Headquarters. A future release of ICIS will replace the Permit Compliance System (PCS) which supports the NPDES and will integrate that information with Federal actions already in the system. ICIS also has the capability to track other activities occurring in the Region that support Compliance and Enforcement programs. These include; Incident Tracking, Compliance Assistance, and Compliance Monitoring.

ECHO:
Envid: 1015877909
Registry ID: 110045460577
DFR URL: http://echo.epa.gov/detailed_facility_report?fid=110045460577

Envid: 1015877909
Registry ID: 110055693673
DFR URL: http://echo.epa.gov/detailed_facility_report?fid=110055693673

B6 **PECHANGA GOLF COURSE** **INDIAN LUST** **1012125263**
South **45000 PECHANGA PARKWAY** **INDIAN UST** **N/A**
1/8-1/4 **TEMECULA, CA 92592**
0.167 mi.
880 ft. **Site 2 of 2 in cluster B**

Relative:
Higher

Actual:
1085 ft.

Indian LUST:
Facility ID: PECH003
Region: 9
Facility Tel: -
Tribe Name: PECHANGA BAND
LUST Status: Closed
Last Event Date: 2008-05-06 00:00:00

PECHANGA GOLF COURSE (Continued) **1012125263**

Latitude: 33.445700000000002
Longitude: -117.1009
Last Status: Cleanup Completed (NFA - Confirmed Release)

Indian UST:
Region: 9
Alternate Facility ID: PECH003
Facility Name2: PECHANGA G
Tank ID: TANK 3
Tank Status: Permanently Out of Use
Status Date: 18-Mar-08
Substance Description: -
Tribe: PECHANGA BAND
Facility County: Not reported
Facility Telephone: -
Overfill installed: FALSE
Spill installed: FALSE
Date installed: 1/1/2000
Federally Regulated Tank: True

Region: 9
Alternate Facility ID: PECH003
Facility Name2: PECHANGA G
Tank ID: TANK 2
Tank Status: Permanently Out of Use
Status Date: 18-Mar-80
Substance Description: -
Tribe: PECHANGA BAND
Facility County: Not reported
Facility Telephone: -
Overfill installed: FALSE
Spill installed: FALSE
Date installed: 1/1/2000
Federally Regulated Tank: False

Region: 9
Alternate Facility ID: PECH003
Facility Name2: PECHANGA G
Tank ID: TANK 1
Tank Status: Permanently Out of Use
Status Date: 18-Mar-08
Substance Description: -
Tribe: PECHANGA BAND
Facility County: Not reported
Facility Telephone: -
Overfill installed: FALSE
Spill installed: FALSE
Date installed: 1/1/2000
Federally Regulated Tank: True

7
SE
1/4-1/2
0.349 mi.
1843 ft.

TRI WEST/PACIFIC SOD
45620 PALA
TEMECULA, CA 93066

LUST
HIST CORTESE

S102439234
N/A

Relative:
Higher

Actual:
1111 ft.

LUST:

Region:	STATE
Global Id:	T0606501115
Latitude:	33.4490857
Longitude:	-117.094598
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	05/18/1989
Lead Agency:	RIVERSIDE COUNTY LOP
Case Worker:	UNK
Local Agency:	RIVERSIDE COUNTY LOP
RB Case Number:	9UT1418
LOC Case Number:	88124
File Location:	Not reported
Potential Media Affect:	Soil
Potential Contaminants of Concern:	Gasoline
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

Contact:

Global Id:	T0606501115
Contact Type:	Local Agency Caseworker
Contact Name:	UNK
Organization Name:	RIVERSIDE COUNTY LOP
Address:	3880 LEMON ST SUITE 200
City:	RIVERSIDE
Email:	Not reported
Phone Number:	Not reported

Status History:

Global Id:	T0606501115
Status:	Completed - Case Closed
Status Date:	05/18/1989
Global Id:	T0606501115
Status:	Open - Case Begin Date
Status Date:	07/05/1988
Global Id:	T0606501115
Status:	Open - Site Assessment
Status Date:	07/06/1988
Global Id:	T0606501115
Status:	Open - Site Assessment
Status Date:	12/01/1988

Regulatory Activities:

Global Id:	T0606501115
Action Type:	Other
Date:	07/05/1988
Action:	Leak Discovery

TRI WEST/PACIFIC SOD (Continued) **S102439234**

Global Id: T0606501115
Action Type: Other
Date: 07/05/1988
Action: Leak Reported

Global Id: T0606501115
Action Type: Other
Date: 07/05/1988
Action: Leak Stopped

LUST REG 9:
Region: 9
Status: Case Closed
Case Number: 9UT1418
Local Case: 88-412
Substance: Unleaded Gasoline
Qty Leaked: Not reported
Abate Method: Excavate and Treat - remove contaminated soil and treat (includes spreading or land farming)
Local Agency: Riverside
How Found: Tank Closure
How Stopped: Close Tank
Source: Unknown
Cause: Unknown
Lead Agency: Local Agency
Case Type: Soil only
Date Found: 07/05/1988
Date Stopped: 07/05/1988
Confirm Date: / /
Submit Workplan: 7/6/88
Prelim Assess: 12/01/1988
Desc Pollution: Not reported
Remed Plan: / /
Remed Action: Not reported
Began Monitor: Not reported
Release Date: 07/05/1988
Enforce Date: Not reported
Closed Date: 5/18/89
Enforce Type: Not reported
Pilot Program: LOP
Basin Number: Not reported
GW Depth: Not reported
Beneficial Use: Not reported
NPDES Number: Not reported
Priority: Not reported
File Dispn: File discarded, case closed
Interim Remedial Actions: Yes
Cleanup and Abatement order Number: Not reported
Waste Discharge Requirement Number: Not reported

RIVERSIDE CO. LUST:
Region: RIVERSIDE
Facility ID: 88124
Employee: Rogers
Site Closed: Yes

TRI WEST/PACIFIC SOD (Continued) **S102439234**

Case Type: Soil only
Facility Status: closed/action completed
Casetype Decode: Soil only is impacted
Fstatus Decode: Closed/Action completed

HIST CORTESE:
Region: CORTESE
Facility County Code: 33
Reg By: LTNKA
Reg Id: 9UT1418

C8 NW 1/2-1 0.641 mi. 3385 ft. **WOLF CREEK MIDDLE SCHOOL** **ENVIROSTOR** **S105628729**
LOMA LINDA ROAD/VIA DEL CORAND **SCH** **N/A**
TEMECULA, CA 92592

Site 1 of 2 in cluster C

Relative: Lower

Actual: 1032 ft.

ENVIROSTOR:
Facility ID: 33010006
Status: No Further Action
Status Date: 07/20/2000
Site Code: 400754
Site Type: School Investigation
Site Type Detailed: School
Acres: 20
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: Not reported
Supervisor: Mark Malinowski
Division Branch: Southern California Schools & Brownfields Outreach
Assembly: 75
Senate: 28
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: School District
Latitude: 33.46975
Longitude: -117.1142
APN: NONE SPECIFIED
Past Use: AGRICULTURAL - ROW CROPS
Potential COC: DDE Endosulfan Toxaphene Dibutyl phthalate Heptachlor Barium and compounds Endrin Cobalt
Confirmed COC: NONE SPECIFIED
Potential Description: SOIL
Alias Name: TEMECULA VALLEY UNIFIED SCHOOL DISTRICT
Alias Type: Alternate Name
Alias Name: TEMECULA VALLEY USD-WOLF CRK MID. SCHOOL
Alias Type: Alternate Name
Alias Name: TEMECULA VALLEY USD-WOLF CRK MID/VCA
Alias Type: Alternate Name
Alias Name: WOLF CREEK MIDDLE SCHOOL
Alias Type: Alternate Name
Alias Name: 400750
Alias Type: Project Code (Site Code)
Alias Name: 400754
Alias Type: Project Code (Site Code)

WOLF CREEK MIDDLE SCHOOL (Continued) **S105628729**

Alias Name: 33010006
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 07/12/2001
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 09/07/1999
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Agreement
Completed Date: 08/30/1999
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 07/20/2000
Comments: Issued approval letter for PEA w/ no further action determination.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Phase 1
Completed Date: 07/26/1999
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

SCH:

Facility ID: 33010006
Site Type: School Investigation
Site Type Detail: School
Site Mgmt. Req.: NONE SPECIFIED
Acres: 20
National Priorities List: NO
Cleanup Oversight Agencies: SMBRP
Lead Agency: SMBRP
Lead Agency Description: DTSC - Site Cleanup Program
Project Manager: Not reported
Supervisor: Mark Malinowski

WOLF CREEK MIDDLE SCHOOL (Continued) **S105628729**

Division Branch:	Southern California Schools & Brownfields Outreach
Site Code:	400754
Assembly:	75
Senate:	28
Special Program Status:	Not reported
Status:	No Further Action
Status Date:	07/20/2000
Restricted Use:	NO
Funding:	School District
Latitude:	33.46975
Longitude:	-117.1142
APN:	NONE SPECIFIED
Past Use:	AGRICULTURAL - ROW CROPS
Potential COC:	DDE, DDE, Endosulfan, Toxaphene, Dibutyl phthalate, Heptachlor, Barium and compounds, Endrin, Cobalt
Confirmed COC:	NONE SPECIFIED
Potential Description:	SOIL
Alias Name:	TEMECULA VALLEY UNIFIED SCHOOL DISTRICT
Alias Type:	Alternate Name
Alias Name:	TEMECULA VALLEY USD-WOLF CRK MID. SCHOOL
Alias Type:	Alternate Name
Alias Name:	TEMECULA VALLEY USD-WOLF CRK MID/VCA
Alias Type:	Alternate Name
Alias Name:	WOLF CREEK MIDDLE SCHOOL
Alias Type:	Alternate Name
Alias Name:	400750
Alias Type:	Project Code (Site Code)
Alias Name:	400754
Alias Type:	Project Code (Site Code)
Alias Name:	33010006
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Cost Recovery Closeout Memo
Completed Date:	07/12/2001
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Cost Recovery Closeout Memo
Completed Date:	09/07/1999
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Voluntary Cleanup Agreement
Completed Date:	08/30/1999
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Preliminary Endangerment Assessment Report
Completed Date:	07/20/2000
Comments:	Issued approval letter for PEA w/ no further action determination.
Completed Area Name:	PROJECT WIDE

WOLF CREEK MIDDLE SCHOOL (Continued) **S105628729**

Completed Sub Area Name:	Not reported
Completed Document Type:	Phase 1
Completed Date:	07/26/1999
Comments:	Not reported
Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

C9 **WOLF CREEK ELEMENTARY SCHOOL** **ENVIROSTOR** **S105628728**
NW **LOMA LINDA ROAD/WOLF VALLEY ROAD** **SCH** **N/A**
1/2-1 **TEMECULA, CA 92592**
0.648 mi.
3419 ft. **Site 2 of 2 in cluster C**

Relative:
Lower

Actual:
1033 ft.

ENVIROSTOR:

Facility ID:	33010005
Status:	No Further Action
Status Date:	07/20/2000
Site Code:	400753
Site Type:	School Investigation
Site Type Detailed:	School
Acres:	12
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	Not reported
Supervisor:	Mark Malinowski
Division Branch:	Southern California Schools & Brownfields Outreach
Assembly:	75
Senate:	28
Special Program:	Not reported
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	School District
Latitude:	33.4694
Longitude:	-117.1149
APN:	NONE SPECIFIED
Past Use:	AGRICULTURAL - ROW CROPS
Potential COC:	DDT Barium and compounds Chromium VI Endrin Vanadium and compounds Mercury (elemental Toxaphene DDE
Confirmed COC:	NONE SPECIFIED
Potential Description:	SOIL
Alias Name:	TEMECULA VALLEY UNIFIED SCHOOL DISTRICT
Alias Type:	Alternate Name
Alias Name:	TEMECULA VALLEY USD-WOLF CRK ELEM. SCHL.
Alias Type:	Alternate Name
Alias Name:	TEMECULA VALLEY USD-WOLF CRK ELEM/VCA
Alias Type:	Alternate Name
Alias Name:	WOLF CREEK ELEMENTARY SCHOOL
Alias Type:	Alternate Name
Alias Name:	400749

WOLF CREEK ELEMENTARY SCHOOL (Continued) **S105628728**

Alias Type: Project Code (Site Code)
Alias Name: 400753
Alias Type: Project Code (Site Code)
Alias Name: 33010005
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 07/12/2001
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 09/07/1999
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 07/20/2000
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Phase 1
Completed Date: 07/26/1999
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Agreement
Completed Date: 08/30/1999
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

SCH:

Facility ID: 33010005
Site Type: School Investigation
Site Type Detail: School
Site Mgmt. Req.: NONE SPECIFIED
Acres: 12
National Priorities List: NO
Cleanup Oversight Agencies: SMBRP
Lead Agency: SMBRP

WOLF CREEK ELEMENTARY SCHOOL (Continued) **S105628728**

Lead Agency Description:	DTSC - Site Cleanup Program
Project Manager:	Not reported
Supervisor:	Mark Malinowski
Division Branch:	Southern California Schools & Brownfields Outreach
Site Code:	400753
Assembly:	75
Senate:	28
Special Program Status:	Not reported
Status:	No Further Action
Status Date:	07/20/2000
Restricted Use:	NO
Funding:	School District
Latitude:	33.4694
Longitude:	-117.1149
APN:	NONE SPECIFIED
Past Use:	AGRICULTURAL - ROW CROPS
Potential COC:	DDT, DDT, Barium and compounds, Chromium VI, Endrin, Vanadium and compounds, Mercury (elemental, Toxaphene, DDE
Confirmed COC:	NONE SPECIFIED
Potential Description:	SOIL
Alias Name:	TEMECULA VALLEY UNIFIED SCHOOL DISTRICT
Alias Type:	Alternate Name
Alias Name:	TEMECULA VALLEY USD-WOLF CRK ELEM. SCHL.
Alias Type:	Alternate Name
Alias Name:	TEMECULA VALLEY USD-WOLF CRK ELEM/VCA
Alias Type:	Alternate Name
Alias Name:	WOLF CREEK ELEMENTARY SCHOOL
Alias Type:	Alternate Name
Alias Name:	400749
Alias Type:	Project Code (Site Code)
Alias Name:	400753
Alias Type:	Project Code (Site Code)
Alias Name:	33010005
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Cost Recovery Closeout Memo
Completed Date:	07/12/2001
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Cost Recovery Closeout Memo
Completed Date:	09/07/1999
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Preliminary Endangerment Assessment Report
Completed Date:	07/20/2000
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Phase 1
Completed Date:	07/26/1999

WOLF CREEK ELEMENTARY SCHOOL (Continued) **S105628728**

Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Voluntary Cleanup Agreement
Completed Date:	08/30/1999
Comments:	Not reported
Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

Count: 1 records. ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
TEMECULA	S107541244		WOLF VALLEY RD, 1/4 MI N OF PA	92592	CDL

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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

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

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL: National Priority List

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

Date of Government Version: 03/07/2016
Date Data Arrived at EDR: 04/05/2016
Date Made Active in Reports: 04/15/2016
Number of Days to Update: 10

Source: EPA
Telephone: N/A
Last EDR Contact: 07/07/2016
Next Scheduled EDR Contact: 10/17/2016
Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

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

EPA Region 1
Telephone 617-918-1143

EPA Region 6
Telephone: 214-655-6659

EPA Region 3
Telephone 215-814-5418

EPA Region 7
Telephone: 913-551-7247

EPA Region 4
Telephone 404-562-8033

EPA Region 8
Telephone: 303-312-6774

EPA Region 5
Telephone 312-886-6686

EPA Region 9
Telephone: 415-947-4246

EPA Region 10
Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

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

Date of Government Version: 03/07/2016
Date Data Arrived at EDR: 04/05/2016
Date Made Active in Reports: 04/15/2016
Number of Days to Update: 10

Source: EPA
Telephone: N/A
Last EDR Contact: 07/07/2016
Next Scheduled EDR Contact: 10/17/2016
Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

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

Date of Government Version: 10/15/1991
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

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Federal Delisted NPL site list

Delisted NPL: National Priority List Deletions

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

Date of Government Version: 03/07/2016
Date Data Arrived at EDR: 04/05/2016
Date Made Active in Reports: 04/15/2016
Number of Days to Update: 10

Source: EPA
Telephone: N/A
Last EDR Contact: 07/07/2016
Next Scheduled EDR Contact: 10/17/2016
Data Release Frequency: Quarterly

Federal CERCLIS list

FEDERAL FACILITY: Federal Facility Site Information listing

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

Date of Government Version: 11/13/2015
Date Data Arrived at EDR: 01/06/2016
Date Made Active in Reports: 05/20/2016
Number of Days to Update: 135

Source: Environmental Protection Agency
Telephone: 703-603-8704
Last EDR Contact: 07/06/2016
Next Scheduled EDR Contact: 10/17/2016
Data Release Frequency: Varies

SEMS: Superfund Enterprise Management System

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

Date of Government Version: 03/07/2016
Date Data Arrived at EDR: 04/05/2016
Date Made Active in Reports: 04/15/2016
Number of Days to Update: 10

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 07/22/2016
Next Scheduled EDR Contact: 10/31/2016
Data Release Frequency: Quarterly

Federal CERCLIS NFRAP site list

SEMS-ARCHIVE: Superfund Enterprise Management System Archive

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

Date of Government Version: 03/07/2016
Date Data Arrived at EDR: 04/05/2016
Date Made Active in Reports: 04/15/2016
Number of Days to Update: 10

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 07/22/2016
Next Scheduled EDR Contact: 10/31/2016
Data Release Frequency: Quarterly

Federal RCRA CORRACTS facilities list

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 12/09/2015
Date Data Arrived at EDR: 03/02/2016
Date Made Active in Reports: 04/05/2016
Number of Days to Update: 34

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 06/30/2016
Next Scheduled EDR Contact: 10/10/2016
Data Release Frequency: Quarterly

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

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

Date of Government Version: 12/09/2015
Date Data Arrived at EDR: 03/02/2016
Date Made Active in Reports: 04/05/2016
Number of Days to Update: 34

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

Federal RCRA generators list

RCRA-LQG: RCRA - Large Quantity Generators

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

Date of Government Version: 12/09/2015
Date Data Arrived at EDR: 03/02/2016
Date Made Active in Reports: 04/05/2016
Number of Days to Update: 34

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

RCRA-SQG: RCRA - Small Quantity Generators

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

Date of Government Version: 12/09/2015
Date Data Arrived at EDR: 03/02/2016
Date Made Active in Reports: 04/05/2016
Number of Days to Update: 34

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

RCRA-CESQG: RCRA - Conditionally Exempt Small Quantity Generators

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

Date of Government Version: 12/09/2015
Date Data Arrived at EDR: 03/02/2016
Date Made Active in Reports: 04/05/2016
Number of Days to Update: 34

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

Federal institutional controls / engineering controls registries

LUCIS: Land Use Control Information System

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

Date of Government Version: 05/28/2015
Date Data Arrived at EDR: 05/29/2015
Date Made Active in Reports: 06/11/2015
Number of Days to Update: 13

Source: Department of the Navy
Telephone: 843-820-7326
Last EDR Contact: 05/16/2016
Next Scheduled EDR Contact: 08/29/2016
Data Release Frequency: Varies

US ENG CONTROLS: Engineering Controls Sites List

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

Date of Government Version: 09/10/2015
Date Data Arrived at EDR: 09/11/2015
Date Made Active in Reports: 11/03/2015
Number of Days to Update: 53

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 05/25/2016
Next Scheduled EDR Contact: 09/12/2016
Data Release Frequency: Varies

US INST CONTROL: Sites with Institutional Controls

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

Date of Government Version: 09/10/2015
Date Data Arrived at EDR: 09/11/2015
Date Made Active in Reports: 11/03/2015
Number of Days to Update: 53

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 05/25/2016
Next Scheduled EDR Contact: 09/12/2016
Data Release Frequency: Varies

Federal ERNS list

ERNS: Emergency Response Notification System

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

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

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

State- and tribal - equivalent NPL

RESPONSE: State Response Sites

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

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

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

State- and tribal - equivalent CERCLIS

ENVIROSTOR: EnviroStor Database

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

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

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

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

SWF/LF (SWIS): Solid Waste Information System

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

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

Source: Department of Resources Recycling and Recovery
Telephone: 916-341-6320
Last EDR Contact: 05/18/2016
Next Scheduled EDR Contact: 08/29/2016
Data Release Frequency: Quarterly

State and tribal leaking storage tank lists

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 REG 9: Leaking Underground Storage Tank Report
Orange, Riverside, San Diego counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

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

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

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

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

Source: California Regional Water Quality Control Board Santa Ana Region (8)
Telephone: 909-782-4496
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: Varies

LUST REG 7: Leaking Underground Storage Tank Case Listing
Leaking Underground Storage Tank locations. Imperial, Riverside, San Diego, Santa Barbara counties.

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

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

LUST REG 6V: Leaking Underground Storage Tank Case Listing
Leaking Underground Storage Tank locations. Inyo, Kern, Los Angeles, Mono, San Bernardino counties.

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

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

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

Date of Government Version: 03/14/2016
Date Data Arrived at EDR: 03/16/2016
Date Made Active in Reports: 05/16/2016
Number of Days to Update: 61

Source: State Water Resources Control Board
Telephone: see region list
Last EDR Contact: 06/14/2016
Next Scheduled EDR Contact: 09/26/2016
Data Release Frequency: Quarterly

LUST REG 5: Leaking Underground Storage Tank Database
Leaking Underground Storage Tank locations. Alameda, Alpine, Amador, Butte, Colusa, Contra Costa, Calveras, El Dorado, Fresno, Glenn, Kern, Kings, Lake, Lassen, Madera, Mariposa, Merced, Modoc, Napa, Nevada, Placer, Plumas, Sacramento, San Joaquin, Shasta, Solano, Stanislaus, Sutter, Tehama, Tulare, Tuolumne, Yolo, Yuba counties.

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

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

LUST REG 4: Underground Storage Tank Leak List
Los Angeles, Ventura counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

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

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

LUST REG 3: Leaking Underground Storage Tank Database
Leaking Underground Storage Tank locations. Monterey, San Benito, San Luis Obispo, Santa Barbara, Santa Cruz counties.

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

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

LUST REG 2: Fuel Leak List
Leaking Underground Storage Tank locations. Alameda, Contra Costa, Marin, Napa, San Francisco, San Mateo, Santa Clara, Solano, Sonoma counties.

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

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

LUST REG 1: Active Toxic Site Investigation
Del Norte, Humboldt, Lake, Mendocino, Modoc, Siskiyou, Sonoma, Trinity counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

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

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

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Iowa, Kansas, and Nebraska

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

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

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

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

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

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

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

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

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

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

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Florida, Mississippi and North Carolina.

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

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

Date of Government Version: 12/11/2015
Date Data Arrived at EDR: 02/19/2016
Date Made Active in Reports: 06/03/2016
Number of Days to Update: 105
Source: EPA Region 6
Telephone: 214-665-6597
Last EDR Contact: 07/27/2016
Next Scheduled EDR Contact: 11/07/2016
Data Release Frequency: Varies

INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land
Leaking underground storage tanks located on Indian Land in Michigan, Minnesota and Wisconsin.

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

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

SLIC: Statewide SLIC Cases

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

Date of Government Version: 03/14/2016
Date Data Arrived at EDR: 03/16/2016
Date Made Active in Reports: 05/16/2016
Number of Days to Update: 61

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/14/2016
Next Scheduled EDR Contact: 09/26/2016
Data Release Frequency: Varies

SLIC REG 1: Active Toxic Site Investigations

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

SLIC REG 6V: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

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

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

SLIC REG 6L: SLIC Sites
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

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

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

SLIC REG 7: SLIC List
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

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

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

SLIC REG 8: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

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

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

SLIC REG 9: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

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

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

State and tribal registered storage tank lists

FEMA UST: Underground Storage Tank Listing
A listing of all FEMA owned underground storage tanks.

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

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

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

UST: Active UST Facilities
Active UST facilities gathered from the local regulatory agencies

Date of Government Version: 03/14/2016
Date Data Arrived at EDR: 03/16/2016
Date Made Active in Reports: 05/04/2016
Number of Days to Update: 49

Source: SWRCB
Telephone: 916-341-5851
Last EDR Contact: 06/14/2016
Next Scheduled EDR Contact: 09/26/2016
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: 08/01/2009
Date Data Arrived at EDR: 09/10/2009
Date Made Active in Reports: 10/01/2009
Number of Days to Update: 21

Source: California Environmental Protection Agency
Telephone: 916-327-5092
Last EDR Contact: 07/07/2016
Next Scheduled EDR Contact: 10/10/2016
Data Release Frequency: Quarterly

INDIAN UST R5: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 11/05/2015
Date Data Arrived at EDR: 11/13/2015
Date Made Active in Reports: 01/04/2016
Number of Days to Update: 52

Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 07/27/2016
Next Scheduled EDR Contact: 11/07/2016
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: 02/05/2016
Date Data Arrived at EDR: 04/29/2016
Date Made Active in Reports: 06/03/2016
Number of Days to Update: 35

Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 07/26/2016
Next Scheduled EDR Contact: 11/07/2016
Data Release Frequency: Semi-Annually

INDIAN UST R1: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 10/20/2015
Date Data Arrived at EDR: 10/29/2015
Date Made Active in Reports: 01/04/2016
Number of Days to Update: 67

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 07/29/2016
Next Scheduled EDR Contact: 11/07/2016
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: 02/25/2016
Date Data Arrived at EDR: 04/27/2016
Date Made Active in Reports: 06/03/2016
Number of Days to Update: 37

Source: EPA Region 9
Telephone: 415-972-3368
Last EDR Contact: 07/27/2016
Next Scheduled EDR Contact: 11/07/2016
Data Release Frequency: Quarterly

INDIAN UST R10: Underground Storage Tanks on Indian Land

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

Date of Government Version: 01/07/2016
Date Data Arrived at EDR: 01/08/2016
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 41

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 07/27/2016
Next Scheduled EDR Contact: 11/07/2016
Data Release Frequency: Quarterly

INDIAN UST R6: Underground Storage Tanks on Indian Land

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

Date of Government Version: 12/03/2015
Date Data Arrived at EDR: 02/04/2016
Date Made Active in Reports: 06/03/2016
Number of Days to Update: 120

Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 07/27/2016
Next Scheduled EDR Contact: 11/07/2016
Data Release Frequency: Semi-Annually

INDIAN UST R8: Underground Storage Tanks on Indian Land

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

Date of Government Version: 01/26/2016
Date Data Arrived at EDR: 02/05/2016
Date Made Active in Reports: 06/03/2016
Number of Days to Update: 119

Source: EPA Region 8
Telephone: 303-312-6137
Last EDR Contact: 07/27/2016
Next Scheduled EDR Contact: 11/07/2016
Data Release Frequency: Quarterly

INDIAN UST R7: Underground Storage Tanks on Indian Land

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

Date of Government Version: 09/23/2014
Date Data Arrived at EDR: 11/25/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 65

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

State and tribal voluntary cleanup sites

VCP: Voluntary Cleanup Program Properties

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

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

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

INDIAN VCP R7: Voluntary Cleanup Priority Lisitng

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

Date of Government Version: 03/20/2008
Date Data Arrived at EDR: 04/22/2008
Date Made Active in Reports: 05/19/2008
Number of Days to Update: 27

Source: EPA, Region 7
Telephone: 913-551-7365
Last EDR Contact: 04/20/2009
Next Scheduled EDR Contact: 07/20/2009
Data Release Frequency: Varies

INDIAN VCP R1: Voluntary Cleanup Priority Listing
A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 07/27/2015
Date Data Arrived at EDR: 09/29/2015
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 142

Source: EPA, Region 1
Telephone: 617-918-1102
Last EDR Contact: 07/01/2016
Next Scheduled EDR Contact: 10/10/2016
Data Release Frequency: Varies

State and tribal Brownfields sites

BROWNFIELDS: Considered Brownfieds Sites Listing
A listing of sites the SWRCB considers to be Brownfields since these are sites have come to them through the MOA Process.

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

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

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

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

Date of Government Version: 03/21/2016
Date Data Arrived at EDR: 03/22/2016
Date Made Active in Reports: 07/13/2016
Number of Days to Update: 113

Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 06/22/2016
Next Scheduled EDR Contact: 10/03/2016
Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

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

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

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

SWRCY: Recycler Database
A listing of recycling facilities in California.

Date of Government Version: 03/15/2016
Date Data Arrived at EDR: 03/16/2016
Date Made Active in Reports: 05/09/2016
Number of Days to Update: 54

Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 06/14/2016
Next Scheduled EDR Contact: 09/26/2016
Data Release Frequency: Quarterly

HAULERS: Registered Waste Tire Haulers Listing
A listing of registered waste tire haulers.

Date of Government Version: 04/07/2016
Date Data Arrived at EDR: 04/12/2016
Date Made Active in Reports: 06/01/2016
Number of Days to Update: 50

Source: Integrated Waste Management Board
Telephone: 916-341-6422
Last EDR Contact: 05/13/2016
Next Scheduled EDR Contact: 08/22/2016
Data Release Frequency: Varies

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands
Location of open dumps on Indian land.

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

Source: Environmental Protection Agency
Telephone: 703-308-8245
Last EDR Contact: 04/27/2016
Next Scheduled EDR Contact: 08/15/2016
Data Release Frequency: Varies

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

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

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

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations
A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

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

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

Local Lists of Hazardous waste / Contaminated Sites

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

Date of Government Version: 05/04/2016
Date Data Arrived at EDR: 06/03/2016
Date Made Active in Reports: 07/13/2016
Number of Days to Update: 40

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 05/31/2016
Next Scheduled EDR Contact: 06/13/2016
Data Release Frequency: No Update Planned

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

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

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

SCH: School Property Evaluation Program

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

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

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

CDL: Clandestine Drug Labs

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

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

Source: Department of Toxic Substances Control
Telephone: 916-255-6504
Last EDR Contact: 07/07/2016
Next Scheduled EDR Contact: 10/24/2016
Data Release Frequency: Varies

TOXIC PITS: Toxic Pits Cleanup Act Sites

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

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

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

US CDL: Clandestine Drug Labs

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

Date of Government Version: 05/04/2016
Date Data Arrived at EDR: 06/03/2016
Date Made Active in Reports: 07/13/2016
Number of Days to Update: 40

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 05/31/2016
Next Scheduled EDR Contact: 09/12/2016
Data Release Frequency: Quarterly

Local Lists of Registered Storage Tanks

SWEEPS UST: SWEEPS UST Listing

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

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

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

UST MENDOCINO: Mendocino County UST Database
A listing of underground storage tank locations in Mendocino County.

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

Source: Department of Public Health
Telephone: 707-463-4466
Last EDR Contact: 06/01/2016
Next Scheduled EDR Contact: 09/12/2016
Data Release Frequency: Annually

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

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

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

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

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

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

Local Land Records

LIENS: Environmental Liens Listing
A listing of property locations with environmental liens for California where DTSC is a lien holder.

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

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 06/02/2016
Next Scheduled EDR Contact: 09/19/2016
Data Release Frequency: Varies

LIENS 2: CERCLA Lien Information
A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

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

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

DEED: Deed Restriction Listing

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

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

Source: DTSC and SWRCB
Telephone: 916-323-3400
Last EDR Contact: 06/07/2016
Next Scheduled EDR Contact: 09/19/2016
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: 06/24/2015
Date Data Arrived at EDR: 06/26/2015
Date Made Active in Reports: 09/02/2015
Number of Days to Update: 68

Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 06/28/2016
Next Scheduled EDR Contact: 10/10/2016
Data Release Frequency: Annually

CHMIRS: California Hazardous Material Incident Report System

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

Date of Government Version: 04/11/2016
Date Data Arrived at EDR: 04/27/2016
Date Made Active in Reports: 06/17/2016
Number of Days to Update: 51

Source: Office of Emergency Services
Telephone: 916-845-8400
Last EDR Contact: 07/26/2016
Next Scheduled EDR Contact: 11/07/2016
Data Release Frequency: Varies

LDS: Land Disposal Sites Listing

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

Date of Government Version: 03/14/2016
Date Data Arrived at EDR: 03/16/2016
Date Made Active in Reports: 05/16/2016
Number of Days to Update: 61

Source: State Water Qualilty Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/14/2016
Next Scheduled EDR Contact: 09/26/2016
Data Release Frequency: Quarterly

MCS: Military Cleanup Sites Listing

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

Date of Government Version: 03/14/2016
Date Data Arrived at EDR: 03/16/2016
Date Made Active in Reports: 05/16/2016
Number of Days to Update: 61

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/14/2016
Next Scheduled EDR Contact: 09/26/2016
Data Release Frequency: Quarterly

SPILLS 90: SPILLS90 data from FirstSearch

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

Date of Government Version: 06/06/2012
Date Data Arrived at EDR: 01/03/2013
Date Made Active in Reports: 02/22/2013
Number of Days to Update: 50

Source: FirstSearch
Telephone: N/A
Last EDR Contact: 01/03/2013
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

Other Ascertainable Records

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

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

Date of Government Version: 12/09/2015
Date Data Arrived at EDR: 03/02/2016
Date Made Active in Reports: 04/05/2016
Number of Days to Update: 34

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

FUDS: Formerly Used Defense Sites

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

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

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 06/10/2016
Next Scheduled EDR Contact: 09/19/2016
Data Release Frequency: Varies

DOD: Department of Defense Sites

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

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

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

FEDLAND: Federal and Indian Lands

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

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

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

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

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

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

Source: Environmental Protection Agency
Telephone: 615-532-8599
Last EDR Contact: 05/20/2016
Next Scheduled EDR Contact: 08/29/2016
Data Release Frequency: Varies

US FIN ASSUR: Financial Assurance Information

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

Date of Government Version: 09/01/2015
Date Data Arrived at EDR: 09/03/2015
Date Made Active in Reports: 11/03/2015
Number of Days to Update: 61

Source: Environmental Protection Agency
Telephone: 202-566-1917
Last EDR Contact: 05/18/2016
Next Scheduled EDR Contact: 08/29/2016
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: 05/09/2016
Next Scheduled EDR Contact: 08/22/2016
Data Release Frequency: Quarterly

2020 COR ACTION: 2020 Corrective Action Program List

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

Date of Government Version: 04/22/2013
Date Data Arrived at EDR: 03/03/2015
Date Made Active in Reports: 03/09/2015
Number of Days to Update: 6

Source: Environmental Protection Agency
Telephone: 703-308-4044
Last EDR Contact: 05/12/2016
Next Scheduled EDR Contact: 08/22/2016
Data Release Frequency: Varies

TSCA: Toxic Substances Control Act

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

Date of Government Version: 12/31/2012
Date Data Arrived at EDR: 01/15/2015
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 14

Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 06/24/2016
Next Scheduled EDR Contact: 10/03/2016
Data Release Frequency: Every 4 Years

TRIS: Toxic Chemical Release Inventory System

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

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 11/24/2015
Date Made Active in Reports: 04/05/2016
Number of Days to Update: 133

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 05/24/2016
Next Scheduled EDR Contact: 09/05/2016
Data Release Frequency: Annually

SSTS: Section 7 Tracking Systems

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

Date of Government Version: 12/31/2009
Date Data Arrived at EDR: 12/10/2010
Date Made Active in Reports: 02/25/2011
Number of Days to Update: 77

Source: EPA
Telephone: 202-564-4203
Last EDR Contact: 07/25/2016
Next Scheduled EDR Contact: 11/07/2016
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: 11/25/2013
Date Data Arrived at EDR: 12/12/2013
Date Made Active in Reports: 02/24/2014
Number of Days to Update: 74

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 06/07/2016
Next Scheduled EDR Contact: 09/19/2016
Data Release Frequency: Annually

RMP: Risk Management Plans

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

Date of Government Version: 08/01/2015
Date Data Arrived at EDR: 08/26/2015
Date Made Active in Reports: 11/03/2015
Number of Days to Update: 69

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

RAATS: RCRA Administrative Action Tracking System

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

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

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

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

PRP: Potentially Responsible Parties
A listing of verified Potentially Responsible Parties

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

Source: EPA
Telephone: 202-564-6023
Last EDR Contact: 05/12/2016
Next Scheduled EDR Contact: 08/22/2016
Data Release Frequency: Quarterly

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

Date of Government Version: 07/01/2014
Date Data Arrived at EDR: 10/15/2014
Date Made Active in Reports: 11/17/2014
Number of Days to Update: 33

Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 07/15/2016
Next Scheduled EDR Contact: 10/24/2016
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: 01/23/2015
Date Data Arrived at EDR: 02/06/2015
Date Made Active in Reports: 03/09/2015
Number of Days to Update: 31

Source: Environmental Protection Agency
Telephone: 202-564-5088
Last EDR Contact: 07/07/2016
Next Scheduled EDR Contact: 10/24/2016
Data Release Frequency: Quarterly

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Telephone: 202-566-1667
Last EDR Contact: 05/20/2016
Next Scheduled EDR Contact: 09/05/2016
Data Release Frequency: Quarterly

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA
Telephone: 202-566-1667
Last EDR Contact: 05/20/2016
Next Scheduled EDR Contact: 09/05/2016
Data Release Frequency: Quarterly

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

Date of Government Version: 03/07/2016
Date Data Arrived at EDR: 03/18/2016
Date Made Active in Reports: 04/15/2016
Number of Days to Update: 28

Source: Nuclear Regulatory Commission
Telephone: 301-415-7169
Last EDR Contact: 05/06/2016
Next Scheduled EDR Contact: 08/22/2016
Data Release Frequency: Quarterly

COAL ASH DOE: Steam-Electric Plant Operation Data
A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 08/07/2009
Date Made Active in Reports: 10/22/2009
Number of Days to Update: 76
Source: Department of Energy
Telephone: 202-586-8719
Last EDR Contact: 06/09/2016
Next Scheduled EDR Contact: 09/19/2016
Data Release Frequency: Varies

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List
A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 07/01/2014
Date Data Arrived at EDR: 09/10/2014
Date Made Active in Reports: 10/20/2014
Number of Days to Update: 40
Source: Environmental Protection Agency
Telephone: N/A
Last EDR Contact: 06/10/2016
Next Scheduled EDR Contact: 09/19/2016
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: 02/01/2011
Date Data Arrived at EDR: 10/19/2011
Date Made Active in Reports: 01/10/2012
Number of Days to Update: 83
Source: Environmental Protection Agency
Telephone: 202-566-0517
Last EDR Contact: 07/29/2016
Next Scheduled EDR Contact: 11/07/2016
Data Release Frequency: Varies

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

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

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

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

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

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2008
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

DOT OPS: Incident and Accident Data

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

Date of Government Version: 07/31/2012
Date Data Arrived at EDR: 08/07/2012
Date Made Active in Reports: 09/18/2012
Number of Days to Update: 42

Source: Department of Transporation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 08/02/2016
Next Scheduled EDR Contact: 11/14/2016
Data Release Frequency: Varies

CONSENT: Superfund (CERCLA) Consent Decrees

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

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 04/17/2015
Date Made Active in Reports: 06/02/2015
Number of Days to Update: 46

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

BRS: Biennial Reporting System

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

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

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 05/27/2016
Next Scheduled EDR Contact: 09/05/2016
Data Release Frequency: Biennially

INDIAN RESERV: Indian Reservations

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

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

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

FUSRAP: Formerly Utilized Sites Remedial Action Program

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

Date of Government Version: 03/11/2016
Date Data Arrived at EDR: 03/15/2016
Date Made Active in Reports: 06/03/2016
Number of Days to Update: 80

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

UMTRA: Uranium Mill Tailings Sites

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

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

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 05/23/2016
Next Scheduled EDR Contact: 09/05/2016
Data Release Frequency: Varies

LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 11/25/2014
Date Data Arrived at EDR: 11/26/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 64

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

LEAD SMELTER 2: Lead Smelter Sites

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

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

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

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

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

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

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

US AIRS MINOR: Air Facility System Data

A listing of minor source facilities.

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

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

US MINES: Mines Master Index File

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

Date of Government Version: 02/09/2016
Date Data Arrived at EDR: 03/02/2016
Date Made Active in Reports: 04/15/2016
Number of Days to Update: 44

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 06/02/2016
Next Scheduled EDR Contact: 09/12/2016
Data Release Frequency: Semi-Annually

US MINES 2: Ferrous and Nonferrous Metal Mines Database Listing

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

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

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 06/03/2016
Next Scheduled EDR Contact: 09/12/2016
Data Release Frequency: Varies

US MINES 3: Active Mines & Mineral Plants Database Listing

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

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

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 06/03/2016
Next Scheduled EDR Contact: 09/12/2016
Data Release Frequency: Varies

FINDS: Facility Index System/Facility Registry System

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

Date of Government Version: 07/20/2015
Date Data Arrived at EDR: 09/09/2015
Date Made Active in Reports: 11/03/2015
Number of Days to Update: 55

Source: EPA
Telephone: (415) 947-8000
Last EDR Contact: 06/08/2016
Next Scheduled EDR Contact: 09/19/2016
Data Release Frequency: Quarterly

UXO: Unexploded Ordnance Sites

A listing of unexploded ordnance site locations

Date of Government Version: 10/25/2015
Date Data Arrived at EDR: 01/29/2016
Date Made Active in Reports: 04/05/2016
Number of Days to Update: 67

Source: Department of Defense
Telephone: 571-373-0407
Last EDR Contact: 06/20/2016
Next Scheduled EDR Contact: 10/03/2016
Data Release Frequency: Varies

DOCKET HWC: Hazardous Waste Compliance Docket Listing

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

Date of Government Version: 03/01/2016
Date Data Arrived at EDR: 03/03/2016
Date Made Active in Reports: 04/05/2016
Number of Days to Update: 33

Source: Environmental Protection Agency
Telephone: 202-564-0527
Last EDR Contact: 05/25/2016
Next Scheduled EDR Contact: 09/12/2016
Data Release Frequency: Varies

CA BOND EXP. PLAN: Bond Expenditure Plan

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

Date of Government Version: 01/01/1989
Date Data Arrived at EDR: 07/27/1994
Date Made Active in Reports: 08/02/1994
Number of Days to Update: 6

Source: Department of Health Services
Telephone: 916-255-2118
Last EDR Contact: 05/31/1994
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

CORTESE: "Cortese" Hazardous Waste & Substances Sites List

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

Date of Government Version: 03/28/2016
Date Data Arrived at EDR: 03/30/2016
Date Made Active in Reports: 05/09/2016
Number of Days to Update: 40

Source: CAL EPA/Office of Emergency Information
Telephone: 916-323-3400
Last EDR Contact: 06/28/2016
Next Scheduled EDR Contact: 10/10/2016
Data Release Frequency: Quarterly

DRYCLEANERS: Cleaner Facilities

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

Date of Government Version: 02/08/2016
Date Data Arrived at EDR: 02/24/2016
Date Made Active in Reports: 04/01/2016
Number of Days to Update: 37

Source: Department of Toxic Substance Control
Telephone: 916-327-4498
Last EDR Contact: 06/02/2016
Next Scheduled EDR Contact: 09/19/2016
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: 12/31/2014
Date Data Arrived at EDR: 03/22/2016
Date Made Active in Reports: 05/09/2016
Number of Days to Update: 48

Source: California Air Resources Board
Telephone: 916-322-2990
Last EDR Contact: 06/22/2016
Next Scheduled EDR Contact: 10/03/2016
Data Release Frequency: Varies

ENF: Enforcement Action Listing

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

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

Source: State Water Resoruces Control Board
Telephone: 916-445-9379
Last EDR Contact: 08/03/2016
Next Scheduled EDR Contact: 10/07/2016
Data Release Frequency: Varies

Financial Assurance 1: Financial Assurance Information Listing

Financial Assurance information

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

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

Financial Assurance 2: Financial Assurance Information Listing

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

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

Source: California Integrated Waste Management Board
Telephone: 916-341-6066
Last EDR Contact: 05/25/2016
Next Scheduled EDR Contact: 08/29/2016
Data Release Frequency: Varies

HAZNET: Facility and Manifest Data

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

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

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

HIST CORTESE: Hazardous Waste & Substance Site List

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

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

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

HWP: EnviroStor Permitted Facilities Listing

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

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

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 05/25/2016
Next Scheduled EDR Contact: 09/05/2016
Data Release Frequency: Quarterly

HWT: Registered Hazardous Waste Transporter Database

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

Date of Government Version: 04/11/2016
Date Data Arrived at EDR: 04/12/2016
Date Made Active in Reports: 06/01/2016
Number of Days to Update: 50

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

MINES: Mines Site Location Listing

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

Date of Government Version: 03/15/2016
Date Data Arrived at EDR: 03/16/2016
Date Made Active in Reports: 05/09/2016
Number of Days to Update: 54

Source: Department of Conservation
Telephone: 916-322-1080
Last EDR Contact: 06/14/2016
Next Scheduled EDR Contact: 09/26/2016
Data Release Frequency: Varies

MWMP: Medical Waste Management Program Listing

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

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

Source: Department of Public Health
Telephone: 916-558-1784
Last EDR Contact: 06/07/2016
Next Scheduled EDR Contact: 09/19/2016
Data Release Frequency: Varies

NPDES: NPDES Permits Listing

A listing of NPDES permits, including stormwater.

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

Source: State Water Resources Control Board
Telephone: 916-445-9379
Last EDR Contact: 05/18/2016
Next Scheduled EDR Contact: 08/29/2016
Data Release Frequency: Quarterly

PEST LIC: Pesticide Regulation Licenses Listing

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

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

Source: Department of Pesticide Regulation
Telephone: 916-445-4038
Last EDR Contact: 06/07/2016
Next Scheduled EDR Contact: 09/19/2016
Data Release Frequency: Quarterly

PROC: Certified Processors Database

A listing of certified processors.

Date of Government Version: 03/15/2016
Date Data Arrived at EDR: 03/16/2016
Date Made Active in Reports: 05/09/2016
Number of Days to Update: 54

Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 06/14/2016
Next Scheduled EDR Contact: 09/26/2016
Data Release Frequency: Quarterly

NOTIFY 65: Proposition 65 Records

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

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

Source: State Water Resources Control Board
Telephone: 916-445-3846
Last EDR Contact: 06/30/2016
Next Scheduled EDR Contact: 10/03/2016
Data Release Frequency: No Update Planned

UIC: UIC Listing

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

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

Source: Deaprtment of Conservation
Telephone: 916-445-2408
Last EDR Contact: 06/16/2016
Next Scheduled EDR Contact: 09/26/2016
Data Release Frequency: Varies

WASTEWATER PITS: Oil Wastewater Pits Listing

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

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

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

WDS: Waste Discharge System

Sites which have been issued waste discharge requirements.

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

Source: State Water Resources Control Board
Telephone: 916-341-5227
Last EDR Contact: 05/20/2016
Next Scheduled EDR Contact: 09/05/2016
Data Release Frequency: Quarterly

WIP: Well Investigation Program Case List
Well Investigation Program case in the San Gabriel and San Fernando Valley area.

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

Source: Los Angeles Water Quality Control Board
Telephone: 213-576-6726
Last EDR Contact: 06/24/2016
Next Scheduled EDR Contact: 10/10/2016
Data Release Frequency: Varies

ECHO: Enforcement & Compliance History Information
ECHO provides integrated compliance and enforcement information for about 800,000 regulated facilities nationwide.

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

Source: Environmental Protection Agency
Telephone: 202-564-2280
Last EDR Contact: 06/22/2016
Next Scheduled EDR Contact: 10/03/2016
Data Release Frequency: Quarterly

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

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

Source: EPA
Telephone: 800-385-6164
Last EDR Contact: 05/25/2016
Next Scheduled EDR Contact: 09/05/2016
Data Release Frequency: Quarterly

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

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

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

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

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

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

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

EDR Hist Cleaner: EDR Exclusive Historic Dry Cleaners

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

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

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

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA LF: Recovered Government Archive Solid Waste Facilities List

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

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

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

RGA LUST: Recovered Government Archive Leaking Underground Storage Tank

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

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

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

COUNTY RECORDS

ALAMEDA COUNTY:

Contaminated Sites

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

Date of Government Version: 04/12/2016
Date Data Arrived at EDR: 04/14/2016
Date Made Active in Reports: 06/01/2016
Number of Days to Update: 48

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

Underground Tanks
Underground storage tank sites located in Alameda county.

Date of Government Version: 04/06/2016
Date Data Arrived at EDR: 04/14/2016
Date Made Active in Reports: 06/01/2016
Number of Days to Update: 48

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

AMADOR COUNTY:

CUPA Facility List
Cupa Facility List

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

Source: Amador County Environmental Health
Telephone: 209-223-6439
Last EDR Contact: 06/02/2016
Next Scheduled EDR Contact: 09/19/2016
Data Release Frequency: Varies

BUTTE COUNTY:

CUPA Facility Listing
Cupa facility list.

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

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

CALVERAS COUNTY:

CUPA Facility Listing
Cupa Facility Listing

Date of Government Version: 04/29/2016
Date Data Arrived at EDR: 05/03/2016
Date Made Active in Reports: 06/17/2016
Number of Days to Update: 45

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

COLUSA COUNTY:

CUPA Facility List
Cupa facility list.

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

Source: Health & Human Services
Telephone: 530-458-0396
Last EDR Contact: 08/03/2016
Next Scheduled EDR Contact: 11/21/2016
Data Release Frequency: Varies

CONTRA COSTA COUNTY:

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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

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

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

DEL NORTE COUNTY:

CUPA Facility List
Cupa Facility list

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

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

EL DORADO COUNTY:

CUPA Facility List
CUPA facility list.

Date of Government Version: 02/22/2016
Date Data Arrived at EDR: 02/24/2016
Date Made Active in Reports: 04/01/2016
Number of Days to Update: 37

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

FRESNO COUNTY:

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

Date of Government Version: 04/04/2016
Date Data Arrived at EDR: 04/06/2016
Date Made Active in Reports: 05/04/2016
Number of Days to Update: 28

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

HUMBOLDT COUNTY:

CUPA Facility List
CUPA facility list.

Date of Government Version: 03/16/2016
Date Data Arrived at EDR: 03/21/2016
Date Made Active in Reports: 05/04/2016
Number of Days to Update: 44

Source: Humboldt County Environmental Health
Telephone: N/A
Last EDR Contact: 05/23/2016
Next Scheduled EDR Contact: 09/05/2016
Data Release Frequency: Varies

IMPERIAL COUNTY:

CUPA Facility List
Cupa facility list.

Date of Government Version: 04/26/2016
Date Data Arrived at EDR: 04/28/2016
Date Made Active in Reports: 06/17/2016
Number of Days to Update: 50

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

INYO COUNTY:

CUPA Facility List
Cupa facility list.

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

Source: Inyo County Environmental Health Services
Telephone: 760-878-0238
Last EDR Contact: 05/23/2016
Next Scheduled EDR Contact: 09/05/2016
Data Release Frequency: Varies

KERN COUNTY:

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

Date of Government Version: 03/01/2016
Date Data Arrived at EDR: 03/03/2016
Date Made Active in Reports: 05/09/2016
Number of Days to Update: 67

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

KINGS COUNTY:

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

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

Source: Kings County Department of Public Health
Telephone: 559-584-1411
Last EDR Contact: 05/23/2016
Next Scheduled EDR Contact: 09/05/2016
Data Release Frequency: Varies

LAKE COUNTY:

CUPA Facility List
Cupa facility list

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

Source: Lake County Environmental Health
Telephone: 707-263-1164
Last EDR Contact: 04/18/2016
Next Scheduled EDR Contact: 08/01/2016
Data Release Frequency: Varies

LOS ANGELES COUNTY:

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

Date of Government Version: 03/30/2009
Date Data Arrived at EDR: 03/31/2009
Date Made Active in Reports: 10/23/2009
Number of Days to Update: 206
Source: EPA Region 9
Telephone: 415-972-3178
Last EDR Contact: 06/15/2016
Next Scheduled EDR Contact: 07/04/2016
Data Release Frequency: No Update Planned

HMS: Street Number List
Industrial Waste and Underground Storage Tank Sites.

Date of Government Version: 03/30/2016
Date Data Arrived at EDR: 04/01/2016
Date Made Active in Reports: 05/09/2016
Number of Days to Update: 38
Source: Department of Public Works
Telephone: 626-458-3517
Last EDR Contact: 07/07/2016
Next Scheduled EDR Contact: 10/24/2016
Data Release Frequency: Semi-Annually

List of Solid Waste Facilities
Solid Waste Facilities in Los Angeles County.

Date of Government Version: 04/18/2016
Date Data Arrived at EDR: 04/20/2016
Date Made Active in Reports: 06/01/2016
Number of Days to Update: 42
Source: La County Department of Public Works
Telephone: 818-458-5185
Last EDR Contact: 07/19/2016
Next Scheduled EDR Contact: 10/31/2016
Data Release Frequency: Varies

City of Los Angeles Landfills
Landfills owned and maintained by the City of Los Angeles.

Date of Government Version: 01/01/2016
Date Data Arrived at EDR: 01/26/2016
Date Made Active in Reports: 03/22/2016
Number of Days to Update: 56
Source: Engineering & Construction Division
Telephone: 213-473-7869
Last EDR Contact: 07/18/2016
Next Scheduled EDR Contact: 10/31/2016
Data Release Frequency: Varies

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

Date of Government Version: 03/29/2016
Date Data Arrived at EDR: 04/06/2016
Date Made Active in Reports: 06/13/2016
Number of Days to Update: 68
Source: Community Health Services
Telephone: 323-890-7806
Last EDR Contact: 07/13/2016
Next Scheduled EDR Contact: 10/31/2016
Data Release Frequency: Annually

City of El Segundo Underground Storage Tank
Underground storage tank sites located in El Segundo city.

Date of Government Version: 03/30/2015
Date Data Arrived at EDR: 04/02/2015
Date Made Active in Reports: 04/13/2015
Number of Days to Update: 11
Source: City of El Segundo Fire Department
Telephone: 310-524-2236
Last EDR Contact: 07/13/2016
Next Scheduled EDR Contact: 10/31/2016
Data Release Frequency: Semi-Annually

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

Date of Government Version: 11/04/2015
Date Data Arrived at EDR: 11/13/2015
Date Made Active in Reports: 12/17/2015
Number of Days to Update: 34
Source: City of Long Beach Fire Department
Telephone: 562-570-2563
Last EDR Contact: 07/25/2016
Next Scheduled EDR Contact: 11/07/2016
Data Release Frequency: Annually

City of Torrance Underground Storage Tank
Underground storage tank sites located in the city of Torrance.

Date of Government Version: 04/05/2016
Date Data Arrived at EDR: 04/26/2016
Date Made Active in Reports: 06/01/2016
Number of Days to Update: 36

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

MADERA COUNTY:

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

Source: Madera County Environmental Health
Telephone: 559-675-7823
Last EDR Contact: 05/23/2016
Next Scheduled EDR Contact: 09/05/2016
Data Release Frequency: Varies

MARIN COUNTY:

Underground Storage Tank Sites
Currently permitted USTs in Marin County.

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

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

MERCED COUNTY:

CUPA Facility List
CUPA facility list.

Date of Government Version: 02/26/2016
Date Data Arrived at EDR: 03/01/2016
Date Made Active in Reports: 05/04/2016
Number of Days to Update: 64

Source: Merced County Environmental Health
Telephone: 209-381-1094
Last EDR Contact: 06/15/2016
Next Scheduled EDR Contact: 09/05/2016
Data Release Frequency: Varies

MONO COUNTY:

CUPA Facility List
CUPA Facility List

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

Source: Mono County Health Department
Telephone: 760-932-5580
Last EDR Contact: 05/25/2016
Next Scheduled EDR Contact: 09/12/2016
Data Release Frequency: Varies

MONTEREY COUNTY:

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

CUPA Facility Listing
CUPA Program listing from the Environmental Health Division.

Date of Government Version: 03/15/2016
Date Data Arrived at EDR: 03/18/2016
Date Made Active in Reports: 05/04/2016
Number of Days to Update: 47

Source: Monterey County Health Department
Telephone: 831-796-1297
Last EDR Contact: 05/23/2016
Next Scheduled EDR Contact: 09/05/2016
Data Release Frequency: Varies

NAPA COUNTY:

Sites With Reported Contamination
A listing of leaking underground storage tank sites located in Napa county.

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

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 05/25/2016
Next Scheduled EDR Contact: 09/12/2016
Data Release Frequency: No Update Planned

Closed and Operating Underground Storage Tank Sites
Underground storage tank sites located in Napa county.

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

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 05/25/2016
Next Scheduled EDR Contact: 09/12/2016
Data Release Frequency: No Update Planned

NEVADA COUNTY:

CUPA Facility List
CUPA facility list.

Date of Government Version: 04/18/2016
Date Data Arrived at EDR: 05/06/2016
Date Made Active in Reports: 06/17/2016
Number of Days to Update: 42

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

ORANGE COUNTY:

List of Industrial Site Cleanups
Petroleum and non-petroleum spills.

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

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 05/09/2016
Next Scheduled EDR Contact: 08/22/2016
Data Release Frequency: Annually

List of Underground Storage Tank Cleanups
Orange County Underground Storage Tank Cleanups (LUST).

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

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 05/09/2016
Next Scheduled EDR Contact: 08/22/2016
Data Release Frequency: Quarterly

List of Underground Storage Tank Facilities
Orange County Underground Storage Tank Facilities (UST).

Date of Government Version: 05/01/2016
Date Data Arrived at EDR: 05/11/2016
Date Made Active in Reports: 06/01/2016
Number of Days to Update: 21
Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 05/11/2016
Next Scheduled EDR Contact: 08/22/2016
Data Release Frequency: Quarterly

PLACER COUNTY:

Master List of Facilities
List includes aboveground tanks, underground tanks and cleanup sites.

Date of Government Version: 03/07/2016
Date Data Arrived at EDR: 03/09/2016
Date Made Active in Reports: 05/04/2016
Number of Days to Update: 56
Source: Placer County Health and Human Services
Telephone: 530-745-2363
Last EDR Contact: 06/15/2016
Next Scheduled EDR Contact: 09/19/2016
Data Release Frequency: Semi-Annually

RIVERSIDE COUNTY:

Listing of Underground Tank Cleanup Sites
Riverside County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 04/13/2016
Date Data Arrived at EDR: 04/15/2016
Date Made Active in Reports: 05/09/2016
Number of Days to Update: 24
Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 06/20/2016
Next Scheduled EDR Contact: 10/03/2016
Data Release Frequency: Quarterly

Underground Storage Tank Tank List
Underground storage tank sites located in Riverside county.

Date of Government Version: 04/13/2016
Date Data Arrived at EDR: 04/15/2016
Date Made Active in Reports: 06/01/2016
Number of Days to Update: 47
Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 06/20/2016
Next Scheduled EDR Contact: 10/03/2016
Data Release Frequency: Quarterly

SACRAMENTO COUNTY:

Toxic Site Clean-Up List
List of sites where unauthorized releases of potentially hazardous materials have occurred.

Date of Government Version: 02/02/2016
Date Data Arrived at EDR: 04/06/2016
Date Made Active in Reports: 06/01/2016
Number of Days to Update: 56
Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 07/06/2016
Next Scheduled EDR Contact: 10/17/2016
Data Release Frequency: Quarterly

Master Hazardous Materials Facility List
Any business that has hazardous materials on site - hazardous material storage sites, underground storage tanks, waste generators.

Date of Government Version: 02/02/2016
Date Data Arrived at EDR: 04/06/2016
Date Made Active in Reports: 06/01/2016
Number of Days to Update: 56
Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 07/05/2016
Next Scheduled EDR Contact: 10/17/2016
Data Release Frequency: Quarterly

SAN BERNARDINO COUNTY:

Hazardous Material Permits

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

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

Source: San Bernardino County Fire Department Hazardous Materials Division
Telephone: 909-387-3041
Last EDR Contact: 05/09/2016
Next Scheduled EDR Contact: 08/22/2016
Data Release Frequency: Quarterly

SAN DIEGO COUNTY:

Hazardous Materials Management Division Database

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

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

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

Solid Waste Facilities

San Diego County Solid Waste Facilities.

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

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

Environmental Case Listing

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

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

Source: San Diego County Department of Environmental Health
Telephone: 619-338-2371
Last EDR Contact: 06/02/2016
Next Scheduled EDR Contact: 09/19/2016
Data Release Frequency: No Update Planned

SAN FRANCISCO COUNTY:

Local Oversite Facilities

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

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

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

Underground Storage Tank Information
Underground storage tank sites located in San Francisco county.

Date of Government Version: 11/29/2010
Date Data Arrived at EDR: 03/10/2011
Date Made Active in Reports: 03/15/2011
Number of Days to Update: 5
Source: Department of Public Health
Telephone: 415-252-3920
Last EDR Contact: 08/03/2016
Next Scheduled EDR Contact: 11/21/2016
Data Release Frequency: Quarterly

SAN JOAQUIN COUNTY:

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

Date of Government Version: 04/06/2016
Date Data Arrived at EDR: 04/08/2016
Date Made Active in Reports: 05/04/2016
Number of Days to Update: 26
Source: Environmental Health Department
Telephone: N/A
Last EDR Contact: 06/15/2016
Next Scheduled EDR Contact: 10/03/2016
Data Release Frequency: Semi-Annually

SAN LUIS OBISPO COUNTY:

CUPA Facility List
Cupa Facility List.

Date of Government Version: 05/23/2016
Date Data Arrived at EDR: 05/24/2016
Date Made Active in Reports: 06/21/2016
Number of Days to Update: 28
Source: San Luis Obispo County Public Health Department
Telephone: 805-781-5596
Last EDR Contact: 05/23/2016
Next Scheduled EDR Contact: 09/05/2016
Data Release Frequency: Varies

SAN MATEO COUNTY:

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

Date of Government Version: 06/02/2016
Date Data Arrived at EDR: 06/07/2016
Date Made Active in Reports: 06/22/2016
Number of Days to Update: 15
Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 05/27/2016
Next Scheduled EDR Contact: 09/26/2016
Data Release Frequency: Annually

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

Date of Government Version: 03/14/2016
Date Data Arrived at EDR: 03/15/2016
Date Made Active in Reports: 05/09/2016
Number of Days to Update: 55
Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 06/08/2016
Next Scheduled EDR Contact: 09/26/2016
Data Release Frequency: Semi-Annually

SANTA BARBARA COUNTY:

CUPA Facility Listing
CUPA Program Listing from the Environmental Health Services division.

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

Source: Santa Barbara County Public Health Department
Telephone: 805-686-8167
Last EDR Contact: 05/23/2016
Next Scheduled EDR Contact: 09/05/2016
Data Release Frequency: Varies

SANTA CLARA COUNTY:

Cupa Facility List
Cupa facility list

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

Source: Department of Environmental Health
Telephone: 408-918-1973
Last EDR Contact: 05/23/2016
Next Scheduled EDR Contact: 09/05/2016
Data Release Frequency: Varies

HIST LUST - Fuel Leak Site Activity Report
A listing of open and closed leaking underground storage tanks. This listing is no longer updated by the county. Leaking underground storage tanks are now handled by the Department of Environmental Health.

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

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

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

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

Source: Department of Environmental Health
Telephone: 408-918-3417
Last EDR Contact: 05/25/2016
Next Scheduled EDR Contact: 09/12/2016
Data Release Frequency: Annually

Hazardous Material Facilities
Hazardous material facilities, including underground storage tank sites.

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

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

SANTA CRUZ COUNTY:

CUPA Facility List
CUPA facility listing.

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

Source: Santa Cruz County Environmental Health
Telephone: 831-464-2761
Last EDR Contact: 05/23/2016
Next Scheduled EDR Contact: 09/05/2016
Data Release Frequency: Varies

SHASTA COUNTY:

CUPA Facility List
Cupa Facility List.

Date of Government Version: 03/18/2016
Date Data Arrived at EDR: 03/21/2016
Date Made Active in Reports: 05/04/2016
Number of Days to Update: 44

Source: Shasta County Department of Resource Management
Telephone: 530-225-5789
Last EDR Contact: 05/23/2016
Next Scheduled EDR Contact: 09/05/2016
Data Release Frequency: Varies

SOLANO COUNTY:

Leaking Underground Storage Tanks
A listing of leaking underground storage tank sites located in Solano county.

Date of Government Version: 03/14/2016
Date Data Arrived at EDR: 03/22/2016
Date Made Active in Reports: 05/09/2016
Number of Days to Update: 48

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 06/08/2016
Next Scheduled EDR Contact: 09/26/2016
Data Release Frequency: Quarterly

Underground Storage Tanks
Underground storage tank sites located in Solano county.

Date of Government Version: 03/14/2016
Date Data Arrived at EDR: 03/21/2016
Date Made Active in Reports: 05/04/2016
Number of Days to Update: 44

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 06/08/2016
Next Scheduled EDR Contact: 09/26/2016
Data Release Frequency: Quarterly

SONOMA COUNTY:

Cupa Facility List
Cupa Facility list

Date of Government Version: 04/05/2016
Date Data Arrived at EDR: 04/08/2016
Date Made Active in Reports: 05/04/2016
Number of Days to Update: 26

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

Leaking Underground Storage Tank Sites
A listing of leaking underground storage tank sites located in Sonoma county.

Date of Government Version: 04/01/2016
Date Data Arrived at EDR: 04/05/2016
Date Made Active in Reports: 05/09/2016
Number of Days to Update: 34

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

SUTTER COUNTY:

Underground Storage Tanks
Underground storage tank sites located in Sutter county.

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

Source: Sutter County Department of Agriculture
Telephone: 530-822-7500
Last EDR Contact: 06/02/2016
Next Scheduled EDR Contact: 09/19/2016
Data Release Frequency: Semi-Annually

TUOLUMNE COUNTY:

CUPA Facility List
Cupa facility list

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

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

VENTURA COUNTY:

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: 03/28/2016
Date Data Arrived at EDR: 04/29/2016
Date Made Active in Reports: 06/17/2016
Number of Days to Update: 49

Source: Ventura County Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 07/25/2016
Next Scheduled EDR Contact: 11/07/2016
Data Release Frequency: Quarterly

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

Date of Government Version: 12/01/2011
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: 06/28/2016
Next Scheduled EDR Contact: 10/17/2016
Data Release Frequency: Annually

Listing of Underground Tank Cleanup Sites
Ventura County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 05/29/2008
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: 05/13/2016
Next Scheduled EDR Contact: 08/22/2016
Data Release Frequency: Quarterly

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

Date of Government Version: 03/28/2016
Date Data Arrived at EDR: 04/29/2016
Date Made Active in Reports: 06/22/2016
Number of Days to Update: 54

Source: Ventura County Resource Management Agency
Telephone: 805-654-2813
Last EDR Contact: 07/25/2016
Next Scheduled EDR Contact: 11/07/2016
Data Release Frequency: Quarterly

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

Date of Government Version: 02/26/2016
Date Data Arrived at EDR: 03/17/2016
Date Made Active in Reports: 05/04/2016
Number of Days to Update: 48

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 06/16/2016
Next Scheduled EDR Contact: 09/26/2016
Data Release Frequency: Quarterly

YOLO COUNTY:

Underground Storage Tank Comprehensive Facility Report
Underground storage tank sites located in Yolo county.

Date of Government Version: 04/12/2016
Date Data Arrived at EDR: 04/19/2016
Date Made Active in Reports: 06/01/2016
Number of Days to Update: 43

Source: Yolo County Department of Health
Telephone: 530-666-8646
Last EDR Contact: 06/30/2016
Next Scheduled EDR Contact: 10/17/2016
Data Release Frequency: Annually

YUBA COUNTY:

CUPA Facility List
CUPA facility listing for Yuba County.

Date of Government Version: 04/29/2016
Date Data Arrived at EDR: 05/03/2016
Date Made Active in Reports: 06/17/2016
Number of Days to Update: 45

Source: Yuba County Environmental Health Department
Telephone: 530-749-7523
Last EDR Contact: 07/27/2016
Next Scheduled EDR Contact: 11/14/2016
Data Release Frequency: Varies

OTHER DATABASE(S)

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

CT MANIFEST: Hazardous Waste Manifest Data
Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 07/30/2013
Date Data Arrived at EDR: 08/19/2013
Date Made Active in Reports: 10/03/2013
Number of Days to Update: 45

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 05/13/2016
Next Scheduled EDR Contact: 08/29/2016
Data Release Frequency: No Update Planned

NJ MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2013
Date Data Arrived at EDR: 07/17/2015
Date Made Active in Reports: 08/12/2015
Number of Days to Update: 26

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 07/11/2016
Next Scheduled EDR Contact: 10/24/2016
Data Release Frequency: Annually

NY MANIFEST: Facility and Manifest Data
Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 05/01/2016
Date Data Arrived at EDR: 05/06/2016
Date Made Active in Reports: 06/17/2016
Number of Days to Update: 42

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 08/03/2016
Next Scheduled EDR Contact: 11/14/2016
Data Release Frequency: Annually

PA MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 07/24/2015
Date Made Active in Reports: 08/18/2015
Number of Days to Update: 25

Source: Department of Environmental Protection
Telephone: 717-783-8990
Last EDR Contact: 07/18/2016
Next Scheduled EDR Contact: 10/31/2016
Data Release Frequency: Annually

RI MANIFEST: Manifest information
Hazardous waste manifest information

Date of Government Version: 12/31/2013
Date Data Arrived at EDR: 06/19/2015
Date Made Active in Reports: 07/15/2015
Number of Days to Update: 26

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 08/01/2016
Next Scheduled EDR Contact: 09/05/2016
Data Release Frequency: Annually

WI MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2015
Date Data Arrived at EDR: 04/14/2016
Date Made Active in Reports: 06/03/2016
Number of Days to Update: 50

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 06/13/2016
Next Scheduled EDR Contact: 09/26/2016
Data Release Frequency: Annually

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

Electric Power Transmission Line Data
Source: PennWell Corporation
This map includes information copyrighted by PennWell Corporation. This information is provided on a best effort basis and PennWell Corporation does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of PennWell.

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

AHA Hospitals:
Source: American Hospital Association, Inc.
Telephone: 312-280-5991
The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing
Source: Centers for Medicare & Medicaid Services
Telephone: 410-786-3000
A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes
Source: National Institutes of Health
Telephone: 301-594-6248
Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on private school locations in the United States.
Daycare Centers: Licensed Facilities
Source: Department of Social Services
Telephone: 916-657-4041

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 2003 & 2011 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

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

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

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

STREET AND ADDRESS INFORMATION

GEOCHECK ®- PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

PECHANGA PARKWAY
PECHANGA PKWY & WOLF VALLEY RD
TEMECULA, CA 92592

TARGET PROPERTY COORDINATES

Latitude (North):	33.460385 - 33° 27' 37.39''
Longitude (West):	117.106297 - 117° 6' 22.67''
Universal Tranverse Mercator:	Zone 11
UTM X (Meters):	490121.8
UTM Y (Meters):	3702139.5
Elevation:	1075 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	5636481 PECHANGA, CA
Version Date:	2012
West Map:	5640254 TEMECULA, 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 principal 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).

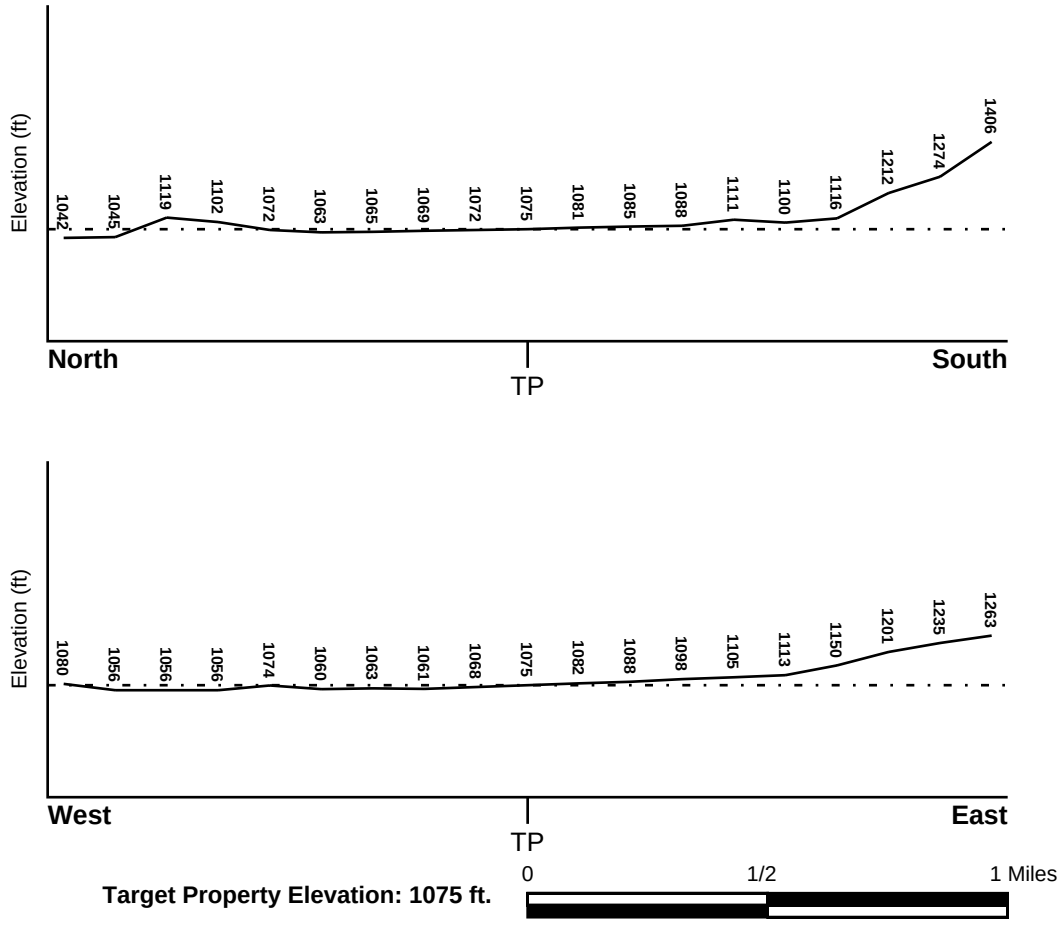
TOPOGRAPHIC INFORMATION

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 WNW

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

Target Property County	FEMA Flood Electronic Data
RIVERSIDE, CA	YES - refer to the Overview Map and Detail Map

Flood Plain Panel at Target Property: 06065C - FEMA DFIRM Flood data

Additional Panels in search area: Not Reported

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property	NWI Electronic Data Coverage
PECHANGA	YES - refer to the Overview Map and Detail Map

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Site-Specific Hydrogeological Data*:

Search Radius:	1.25 miles
Status:	Not found

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

MAP ID	LOCATION FROM TP	GENERAL DIRECTION GROUNDWATER FLOW
Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

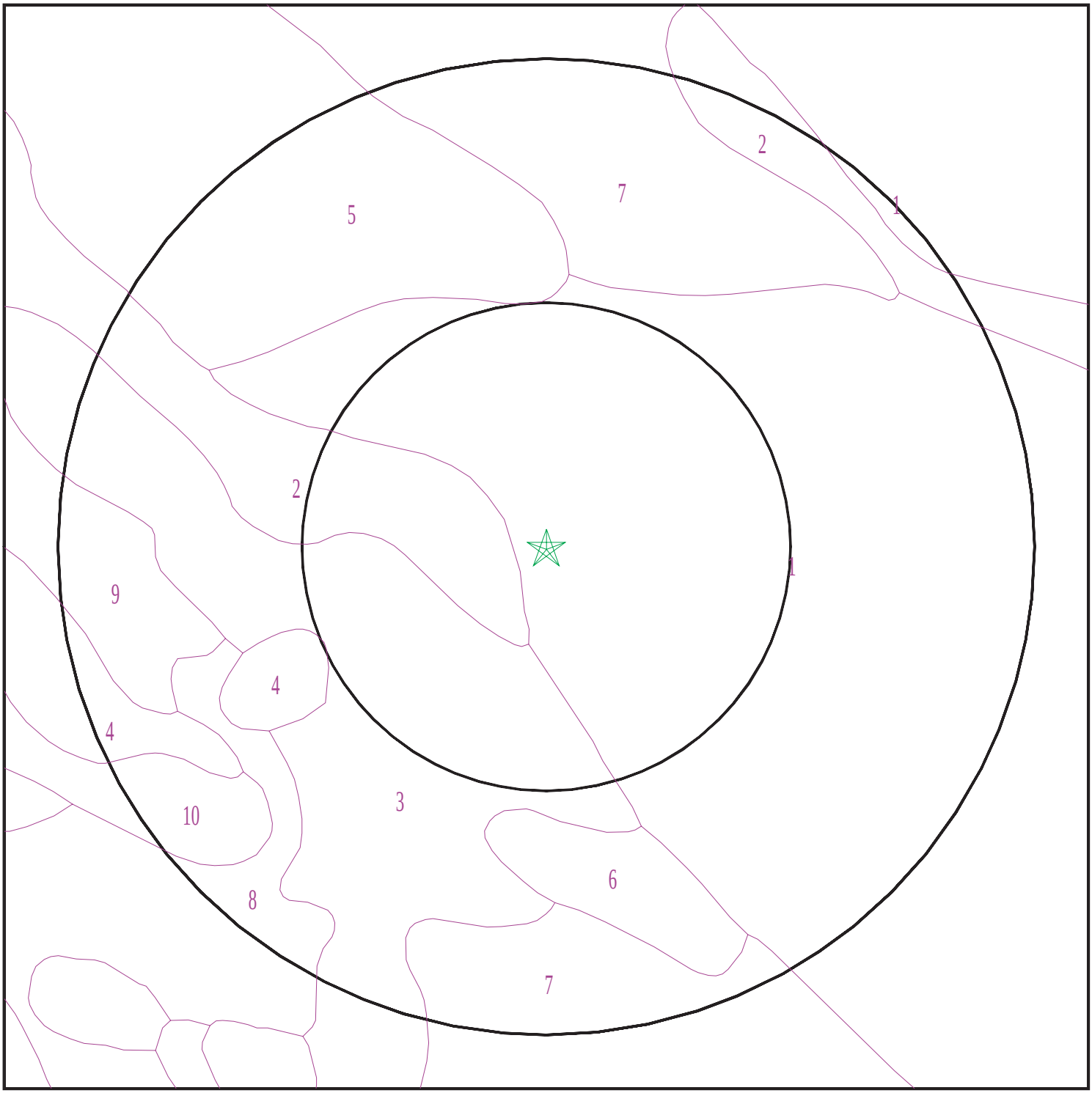
Era:	Cenozoic
System:	Quaternary
Series:	Quaternary
Code:	Q *(decoded above as Era, System & Series)*

GEOLOGIC AGE IDENTIFICATION

Category: Stratifed Sequence

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

SSURGO SOIL MAP - 04692531.2r



Target Property
SSURGO Soil
Water

0 1/16 1/8 1/4 Miles

N

SITE NAME:	Pechanga Parkway	CLIENT:	Marc Boogay Cons. Engineers
ADDRESS:	Pechanga Pkwy & Wolf Valley Rd Temecula CA 92592	CONTACT:	Marc Boogay
LAT/LONG:	33.460385 / 117.106297	INQUIRY #:	04692531.2r
		DATE:	August 04, 2016 4:20 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: HANFORD

Soil Surface Texture: coarse sandy loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	7 inches	coarse sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 7.8 Min: 5.6
2	7 inches	40 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 7.8 Min: 5.6
3	40 inches	59 inches	stratified loamy sand to coarse sandy loam	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 7.8 Min: 5.6

Soil Map ID: 2

Soil Component Name: GORGONIO

Soil Surface Texture: loamy sand

Hydrologic Group: Class A - High infiltration rates. Soils are deep, well drained to excessively drained sands and gravels.

Soil Drainage Class: Somewhat excessively drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	14 inches	loamy sand	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 7.3 Min: 5.6
2	14 inches	59 inches	stratified gravelly loamy sand to gravelly loamy fine sand	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 7.3 Min: 5.6

Soil Map ID: 3

Soil Component Name: GREENFIELD

Soil Surface Texture: sandy loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	25 inches	sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 7.8 Min: 6.1
2	25 inches	42 inches	fine sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 7.8 Min: 6.1
3	42 inches	59 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 14 Min: 4	Max: 7.8 Min: 6.1
4	59 inches	72 inches	stratified loamy sand to sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 8.4 Min: 6.6

Soil Map ID: 4

Soil Component Name: ARLINGTON

Soil Surface Texture: fine sandy loam

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: Well drained

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	11 inches	fine sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 7.8 Min: 6.1
2	11 inches	24 inches	sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay. FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 14 Min: 4	Max: 7.8 Min: 6.1
3	24 inches	35 inches	cemented	Not reported	Not reported	Max: 1.4 Min: 0.42	Max: Min:
4	35 inches	46 inches	coarse sandy loam	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 7.3 Min: 6.6

Soil Map ID: 5

Soil Component Name: GRANGEVILLE

Soil Surface Texture: fine sandy loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Moderately well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	35 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 8.4 Min: 6.1
2	35 inches	64 inches	sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 42 Min: 14	Max: 8.4 Min: 6.6

Soil Map ID: 6

Soil Component Name: RAMONA

Soil Surface Texture: sandy loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	7 inches	sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 14 Min: 4	Max: 7.3 Min: 5.6
2	7 inches	16 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 14 Min: 4	Max: 7.3 Min: 6.1
3	16 inches	68 inches	sandy clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand.	Max: 4 Min: 1.4	Max: 7.3 Min: 6.1
4	68 inches	74 inches	gravelly sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 4 Min: 1.4	Max: 8.4 Min: 6.6

Soil Map ID: 7

Soil Component Name: HANFORD

Soil Surface Texture: fine sandy loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	7 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 7.8 Min: 5.6
2	7 inches	40 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 7.8 Min: 5.6
3	40 inches	59 inches	stratified loamy sand to coarse sandy loam	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 7.8 Min: 5.6

Soil Map ID: 8

Soil Component Name: TUJUNGA

Soil Surface Texture: loamy sand

Hydrologic Group: Class A - High infiltration rates. Soils are deep, well drained to excessively drained sands and gravels.

Soil Drainage Class: Excessively drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	9 inches	loamy sand	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 7.3 Min: 6.1
2	9 inches	59 inches	loamy sand	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Clean Sands, Well-graded sand.	Max: 141 Min: 42	Max: 7.8 Min: 6.1

Soil Map ID: 9

Soil Component Name: GREENFIELD

Soil Surface Texture: sandy loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	25 inches	sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 7.8 Min: 6.1

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
2	25 inches	42 inches	fine sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 7.8 Min: 6.1
3	42 inches	59 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 14 Min: 4	Max: 7.8 Min: 6.1
4	59 inches	72 inches	stratified loamy sand to sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 8.4 Min: 6.6

Soil Map ID: 10

Soil Component Name: ARLINGTON

Soil Surface Texture: fine sandy loam

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: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	11 inches	fine sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 7.8 Min: 6.1
2	11 inches	24 inches	sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay. FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 14 Min: 4	Max: 7.8 Min: 6.1
3	24 inches	35 inches	cemented	Not reported	Not reported	Max: 1.4 Min: 0.42	Max: Min:
4	35 inches	46 inches	coarse sandy loam	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 7.3 Min: 6.6

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

WELL SEARCH DISTANCE INFORMATION

DATABASE	SEARCH DISTANCE (miles)
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 0.001 miles
State Database	1.000

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
A1	USGS40000133754	0 - 1/8 Mile SW
A2	USGS40000133751	0 - 1/8 Mile South
A3	USGS40000133749	0 - 1/8 Mile SSW
A4	USGS40000133748	0 - 1/8 Mile SSW
A5	USGS40000133747	0 - 1/8 Mile SSW
A6	USGS40000133750	0 - 1/8 Mile SSW
B13	USGS40000133752	1/8 - 1/4 Mile WSW
B14	USGS40000133740	1/8 - 1/4 Mile SW
C15	USGS40000133798	1/8 - 1/4 Mile NNE
B18	USGS40000133741	1/8 - 1/4 Mile SW
D19	USGS40000133736	1/8 - 1/4 Mile SW
D20	USGS40000133737	1/8 - 1/4 Mile SW
D21	USGS40000133738	1/8 - 1/4 Mile SW
C22	USGS40000133797	1/8 - 1/4 Mile NNE
27	USGS40000133773	1/4 - 1/2 Mile ENE
E29	USGS40000133734	1/4 - 1/2 Mile SSE
E30	USGS40000133733	1/4 - 1/2 Mile SSE
F31	USGS40000133818	1/4 - 1/2 Mile NW
G33	USGS40000133720	1/4 - 1/2 Mile SSE
36	USGS40000133832	1/4 - 1/2 Mile NNW
H38	USGS40000133712	1/4 - 1/2 Mile SSW
H40	USGS40000133710	1/2 - 1 Mile SSW
J41	USGS40000133729	1/2 - 1 Mile WSW
K42	USGS40000133742	1/2 - 1 Mile WSW
H43	USGS40000133708	1/2 - 1 Mile SSW
I44	USGS40000133826	1/2 - 1 Mile NE
L48	USGS40000133700	1/2 - 1 Mile SSE
49	USGS40000133704	1/2 - 1 Mile SSE
M51	USGS40000133689	1/2 - 1 Mile South
54	USGS40000133688	1/2 - 1 Mile SSE
N55	USGS40000133727	1/2 - 1 Mile ESE
R59	USGS40000133863	1/2 - 1 Mile NNW
P60	USGS40000133693	1/2 - 1 Mile SE
P61	USGS40000133691	1/2 - 1 Mile SE
O63	USGS40000133839	1/2 - 1 Mile WNW
65	USGS40000133829	1/2 - 1 Mile WNW
T69	USGS40000133889	1/2 - 1 Mile North
T70	USGS40000133890	1/2 - 1 Mile North
T71	USGS40000133891	1/2 - 1 Mile North
T75	USGS40000133892	1/2 - 1 Mile North
V77	USGS40000133894	1/2 - 1 Mile NNW
U78	USGS40000133675	1/2 - 1 Mile SSE
X81	USGS40000133776	1/2 - 1 Mile West
X83	USGS40000133777	1/2 - 1 Mile West
W84	USGS40000133678	1/2 - 1 Mile SE
W85	USGS40000133674	1/2 - 1 Mile SE

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

MAP ID	WELL ID	LOCATION FROM TP

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

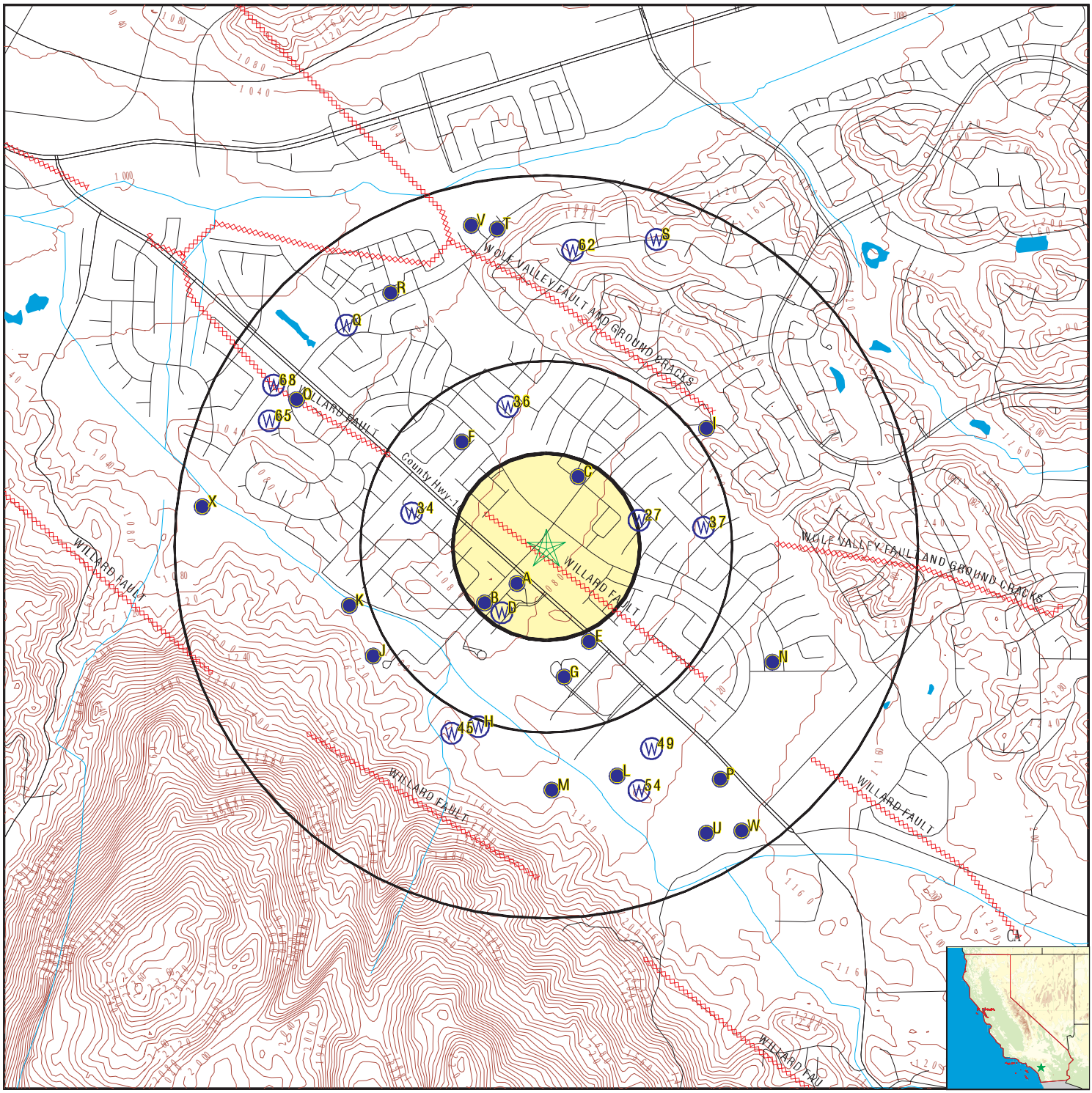
MAP ID	WELL ID	LOCATION FROM TP
No PWS System Found		

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
A7	CADW60000022039	1/8 - 1/4 Mile SW
A8	CADW60000022035	1/8 - 1/4 Mile SW
A9	CADW60000022034	1/8 - 1/4 Mile SW
A10	CADW60000022036	1/8 - 1/4 Mile SW
A11	CADW60000035755	1/8 - 1/4 Mile SW
A12	CADW60000035754	1/8 - 1/4 Mile SW
C16	CADW60000000375	1/8 - 1/4 Mile NNE
C17	CADW60000021378	1/8 - 1/4 Mile NNE
B23	CADW60000035757	1/8 - 1/4 Mile WSW
B24	CADW60000022037	1/8 - 1/4 Mile SW
B25	CADW60000022038	1/8 - 1/4 Mile SW
B26	CADW60000035756	1/8 - 1/4 Mile SW
E28	CADW60000035753	1/4 - 1/2 Mile SSE
G32	CADW60000035759	1/4 - 1/2 Mile South
34	8633	1/4 - 1/2 Mile WNW
F35	CADW60000021379	1/4 - 1/2 Mile NW
37	8634	1/4 - 1/2 Mile East
I39	CADW60000021380	1/2 - 1 Mile NE
45	CADW60000022040	1/2 - 1 Mile SSW
J46	CADW60000035758	1/2 - 1 Mile WSW
K47	CADW60000000389	1/2 - 1 Mile WSW
M50	CADW60000035599	1/2 - 1 Mile South
N52	CADW60000021553	1/2 - 1 Mile ESE
L53	CADW60000015086	1/2 - 1 Mile SSE
O56	8628	1/2 - 1 Mile WNW
P57	CADW60000009353	1/2 - 1 Mile SE
Q58	8632	1/2 - 1 Mile NW
62	8631	1/2 - 1 Mile North
R64	CADW60000021377	1/2 - 1 Mile NNW
Q66	CADW60000003412	1/2 - 1 Mile NW
S67	8629	1/2 - 1 Mile NNE
68	CADW60000021373	1/2 - 1 Mile WNW
T72	CADW60000021375	1/2 - 1 Mile North
T73	CADW60000016205	1/2 - 1 Mile North
U74	CADW60000021554	1/2 - 1 Mile SSE
V76	CADW60000021376	1/2 - 1 Mile NNW
S79	8630	1/2 - 1 Mile NNE
W80	CADW60000009352	1/2 - 1 Mile SSE
X82	CADW60000031499	1/2 - 1 Mile West
X86	CADW60000021374	1/2 - 1 Mile West

PHYSICAL SETTING SOURCE MAP - 04692531.2r



- County Boundary
- Major Roads
- Contour Lines
- Earthquake Fault Lines
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons
- Groundwater Flow Direction
- GI Indeterminate Groundwater Flow at Location
- GV Groundwater Flow Varies at Location
- HD Closest Hydrogeological Data
- Oil, gas or related wells

SITE NAME:	Pechanga Parkway	CLIENT:	Marc Boogay Cons. Engineers
ADDRESS:	Pechanga Pkwy & Wolf Valley Rd Temecula CA 92592	CONTACT:	Marc Boogay
LAT/LONG:	33.460385 / 117.106297	INQUIRY #:	04692531.2r
		DATE:	August 04, 2016 4:20 pm

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

A1
SW
0 - 1/8 Mile
Higher | **FED USGS** | **USGS40000133754**

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-332733117062301		
Monloc name:	008S002W29B010S		
Monloc type:	Well		
Monloc desc:	CONSTRSUCTION DATA CONFIDENTIAL DUE TO BIA MOU		
Huc code:	18070302	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	33.4591961
Longitude:	-117.1072524	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	1074
Vert measure units:	feet	Vertacc measure val:	0.5
Vert accmeasure units:	feet		
Vertcollection method:	Level or other surveying method		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19900826	Welldepth:	Not Reported
Welldepth units:	Not Reported	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1993-04-22	62.74	

A2
South
0 - 1/8 Mile
Higher | **FED USGS** | **USGS40000133751**

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-332732117062305		
Monloc name:	008S002W29B006S		
Monloc type:	Well		
Monloc desc:	MULTIPLE PIEZOMETER HOLE W-12-174		
Huc code:	18070302	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	33.4588889
Longitude:	-117.1063889	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	1074.00
Vert measure units:	feet	Vertacc measure val:	.01
Vert accmeasure units:	feet		
Vertcollection method:	Level or other surveying method		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		

Aquifer type:	Not Reported		
Construction date:	19900206	Welldepth:	174
Welldepth units:	ft	Wellholedepth:	410
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 50

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1993-04-22	61.30		1993-04-13	61.16	
1993-03-22	61.25		1993-03-16	61.38	
1992-12-30	67.46		1992-11-17	67.64	
1992-10-15	67.83				
Note: A nearby site that taps the same aquifer had been pumped recently.					
1992-09-17	67.37		1992-09-01	67.27	
1992-07-23	66.99		1992-07-15	66.94	
1992-06-19	66.58		1992-05-28	66.40	
1992-05-01	66.48		1992-04-10	66.52	
1992-03-13	66.88		1992-02-28	67.13	
1992-02-07	67.47		1992-01-27	67.56	
1992-01-10	67.59		1991-12-12	67.85	
1991-11-26	67.70		1991-11-25	67.72	
1991-11-08	67.69		1991-08-20	67.22	
1991-07-31	67.35		1991-06-13	67.15	
1991-05-30	66.98		1991-05-24	66.96	
1991-04-26	67.12		1991-04-12	67.30	
1991-03-06	68.50		1991-02-21	68.98	
1991-02-06	68.94		1991-01-22	68.94	
1991-01-18	69.02		1990-12-10	69.25	
1990-11-26	68.49		1990-11-14	69.42	
1990-10-31	69.58		1990-09-10	69.66	
1990-08-28	69.67				
Note: Other conditions existed that would affect the measured water level.					
1990-08-26	69.77				
Note: Other conditions existed that would affect the measured water level.					
1990-08-22	69.69				
Note: Other conditions existed that would affect the measured water level.					
1990-08-14	70.84		1990-08-13	69.79	
1990-07-03	71.05		1990-05-03	70.55	
1990-03-05	71.27		1990-03-01	71.40	

A3
SSW **FED USGS** **USGS40000133749**
0 - 1/8 Mile
Higher

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-332732117062303		
Monloc name:	008S002W29B004S		
Monloc type:	Well		
Monloc desc:	MULTIPLE PIEZOMETER HOLE WV-1-80		
Huc code:	18070302	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	33.4589184
Longitude:	-117.1072524	Sourcemap scale:	24000

Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	1074.08
Vert measure units:	feet	Vertacc measure val:	.01
Vert accmeasure units:	feet		
Vertcollection method:	Level or other surveying method		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19900203	Welldepth:	80
Welldepth units:	ft	Wellholedepth:	1004
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 48

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1993-04-22	61.00		1993-04-13	60.93	
1993-03-22	61.03		1993-03-16	61.16	
1992-12-30	66.38		1992-11-17	66.84	
1992-10-15	66.88				
Note: A nearby site that taps the same aquifer had been pumped recently.					
1992-09-17	66.59		1992-09-01	66.47	
1992-07-15	66.11		1992-06-19	65.89	
1992-05-28	65.76		1992-05-01	65.80	
1992-04-10	65.90		1992-03-13	66.25	
1992-02-07	66.71		1992-01-27	66.84	
1992-01-01	66.92		1991-12-12	67.02	
1991-11-25	66.88		1991-11-08	66.82	
1991-08-20	66.50		1991-07-31	66.50	
1991-06-13	66.35		1991-05-30	66.27	
1991-05-24	66.36		1991-04-26	66.43	
1991-04-12	66.68		1991-03-06	67.87	
1991-02-22	68.03		1991-02-06	68.03	
1991-01-24	68.13		1991-01-18	68.13	
1990-12-06	68.36		1990-11-26	68.36	
1990-11-14	68.44		1990-10-31	68.57	
1990-09-10	68.31				
1990-08-26	68.71				
Note: Other conditions existed that would affect the measured water level.					
1990-08-22	68.89				
Note: Other conditions existed that would affect the measured water level.					
1990-08-14	68.81		1990-08-13	68.80	
1990-08-02	68.89		1990-07-03	68.95	
1990-05-03	69.41		1990-03-05	70.11	
1990-03-01	68.40		1990-02-14	67.28	

A4
SSW **FED USGS** **USGS40000133748**
0 - 1/8 Mile
Higher

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-332732117062302		
Monloc name:	008S002W29B003S		
Monloc type:	Well		
Monloc desc:	MULTIPLE PIEZOMETER HOLE WV-493		
Huc code:	18070302	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	33.4589184
Longitude:	-117.1072524	Sourcemap scale:	24000

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	1074.08
Vert measure units:	feet	Vertacc measure val:	.01
Vert accmeasure units:	feet		
Vertcollection method:	Level or other surveying method		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19900203	Welldepth:	493
Welldepth units:	ft	Wellholedepth:	1004
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 171

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
2005-03-02	211.08				
Note: A nearby site that taps the same aquifer was being pumped.					
2005-02-04	202.76		2005-01-04	224.75	
2004-12-08	205.83				
2004-11-03	248.42				
Note: A nearby site that taps the same aquifer was being pumped.					
2004-10-01	260.18				
2004-09-01	281.35				
Note: A nearby site that taps the same aquifer was being pumped.					
2004-08-02	270.22				
Note: A nearby site that taps the same aquifer was being pumped.					
2004-07-01	253.98				
Note: A nearby site that taps the same aquifer was being pumped.					
2004-06-01	255.60				
Note: The site was being pumped.					
2004-05-10	241.65		2004-04-13	159.02	
2004-03-08	202.03		2004-02-12	139.07	
2004-01-15	194.30		2003-12-05	221.62	
2003-11-03	192.64				
2003-10-03	188.37				
Note: A nearby site that taps the same aquifer was being pumped.					
2003-09-02	223.66				
Note: A nearby site that taps the same aquifer was being pumped.					
2003-08-01	186.48				
Note: A nearby site that taps the same aquifer was being pumped.					
2003-07-07	223.29				
Note: A nearby site that taps the same aquifer was being pumped.					
2003-06-02	225.59				
Note: A nearby site that taps the same aquifer was being pumped.					
2003-05-01	218.25				
Note: A nearby site that taps the same aquifer was being pumped.					
2003-04-02	218.65				
Note: A nearby site that taps the same aquifer was being pumped.					
2003-03-03	197.60				
Note: A nearby site that taps the same aquifer was being pumped.					
2003-02-04	222.58				
Note: A nearby site that taps the same aquifer was being pumped.					
2003-01-10	209.95				
Note: A nearby site that taps the same aquifer was being pumped.					
2002-12-02	192.60				
Note: A nearby site that taps the same aquifer was being pumped.					

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
2002-11-07	231.43				
Note: A nearby site that taps the same aquifer was being pumped.					
2002-10-03	178.04				
Note: A nearby site that taps the same aquifer was being pumped.					
2002-09-03	184.28				
Note: A nearby site that taps the same aquifer was being pumped.					
2002-08-01	267.09				
Note: A nearby site that taps the same aquifer was being pumped.					
2002-07-02	260.31				
Note: A nearby site that taps the same aquifer was being pumped.					
2002-05-01	192.69		2002-04-02	184.12	
2002-03-05	196.76				
Note: A nearby site that taps the same aquifer had been pumped recently.					
2002-02-13	197.66				
Note: A nearby site that taps the same aquifer was being pumped.					
2002-01-04	195.52				
Note: A nearby site that taps the same aquifer was being pumped.					
2001-12-05	158.47				
Note: A nearby site that taps the same aquifer had been pumped recently.					
2001-11-01	182.98				
Note: A nearby site that taps the same aquifer had been pumped recently.					
2001-10-03	230.72				
Note: A nearby site that taps the same aquifer was being pumped.					
2001-09-06	218.56				
Note: A nearby site that taps the same aquifer had been pumped recently.					
2001-08-02	182.65				
Note: A nearby site that taps the same aquifer had been pumped recently.					
2001-07-03	189.02				
Note: A nearby site that taps the same aquifer had been pumped recently.					
2001-06-07	168.60				
2001-05-04	192.40				
Note: A nearby site that taps the same aquifer had been pumped recently.					
2001-04-06	139.10		2001-03-13	145.19	
2001-02-01	212.37				
Note: A nearby site that taps the same aquifer was being pumped.					
2001-01-04	161.78				
Note: A nearby site that taps the same aquifer was being pumped.					
2000-12-06	178.64				
Note: A nearby site that taps the same aquifer was being pumped.					
2000-11-07	228.69				
Note: A nearby site that taps the same aquifer was being pumped.					
2000-10-04	170.71				
Note: A nearby site that taps the same aquifer was being pumped.					
2000-09-06	172.94				
Note: A nearby site that taps the same aquifer was being pumped.					
2000-08-01	256.04				
Note: A nearby site that taps the same aquifer was being pumped.					
2000-07-06	179.00				
Note: A nearby site that taps the same aquifer was being pumped.					
2000-06-05	286.19				
Note: A nearby site that taps the same aquifer was being pumped.					
2000-05-09	266.27				
Note: A nearby site that taps the same aquifer was being pumped.					
2000-04-03	165.95				
Note: A nearby site that taps the same aquifer was being pumped.					

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
2000-03-13	156.42				
Note: A nearby site that taps the same aquifer was being pumped.					
2000-02-09	252.74				
Note: A nearby site that taps the same aquifer was being pumped.					
2000-01-06	141.93				
Note: A nearby site that taps the same aquifer had been pumped recently.					
1999-12-14	152.84				
Note: A nearby site that taps the same aquifer had been pumped recently.					
1999-11-12	194.27				
Note: A nearby site that taps the same aquifer was being pumped.					
1999-10-15	169.40				
Note: A nearby site that taps the same aquifer had been pumped recently.					
1999-09-08	228.22				
Note: A nearby site that taps the same aquifer was being pumped.					
1999-06-10	124.89		1999-05-03	140.00	
1999-04-08	193.33				
Note: A nearby site that taps the same aquifer was being pumped.					
1999-03-02	161.35				
Note: A nearby site that taps the same aquifer was being pumped.					
1999-02-01	136.60				
Note: A nearby site that taps the same aquifer was being pumped.					
1999-01-05	129.79				
Note: A nearby site that taps the same aquifer was being pumped.					
1998-12-07	121.09				
Note: A nearby site that taps the same aquifer was being pumped.					
1998-11-23	118.02				
Note: A nearby site that taps the same aquifer was being pumped.					
1998-09-10	117.83				
Note: A nearby site that taps the same aquifer had been pumped recently.					
1998-08-11	114.03		1998-07-02	108.94	
1998-06-02	101.47		1998-05-01	102.57	
1998-04-08	94.57				
1998-03-02	100.64				
Note: A nearby site that taps the same aquifer had been pumped recently.					
1998-01-23	99.30				
1997-12-12	97.37				
Note: The site had been pumped recently.					
1997-11-07	122.59				
Note: The site had been pumped recently.					
1997-10-16	93.87		1997-09-09	104.78	
1997-08-15	106.62				
Note: A nearby site that taps the same aquifer was being pumped.					
1997-07-21	92.79				
1997-06-02	171.71				
Note: A nearby site that taps the same aquifer was being pumped.					
1997-05-05	86.68				
1997-04-09	81.36				
Note: A nearby site that taps the same aquifer had been pumped recently.					
1997-03-13	96.67				
Note: A nearby site that taps the same aquifer had been pumped recently.					
1997-02-19	70.35		1997-01-24	69.49	
1996-12-03	72.06		1996-11-04	71.51	
1996-10-18	71.83		1996-09-03	70.21	
1996-08-02	74.64				
1996-07-10	171.50				
Note: A nearby site that taps the same aquifer was being pumped.					

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1996-06-03	197.34		1996-05-01	66.13	
1996-04-15	66.61		1996-03-18	67.33	
1996-02-08	69.12				
1996-01-03	75.81				
Note: A nearby site that taps the same aquifer was being pumped.					
1995-12-04	175.51				
Note: A nearby site that taps the same aquifer was being pumped.					
1995-11-03	73.87				
1995-10-03	65.30				
Note: The site had been pumped recently.					
1995-09-05	68.70				
1995-08-11	72.84				
Note: A nearby site that taps the same aquifer was being pumped.					
1995-07-21	208.11				
Note: A nearby site that taps the same aquifer was being pumped.					
1995-02-07	59.67		1995-01-04	62.17	
1994-12-06	62.18		1994-11-01	62.06	
1994-10-03	61.74		1994-09-01	61.55	
1994-08-17	61.41		1994-07-13	60.68	
1993-04-22	63.27		1993-04-13	63.25	
1993-03-22	63.75		1993-03-16	64.03	
1992-12-30	68.98		1992-11-17	69.52	
1992-10-15	69.80				
Note: A nearby site that taps the same aquifer had been pumped recently.					
1992-09-17	69.11		1992-09-01	69.27	
1992-07-15	69.02		1992-06-19	68.71	
1992-05-28	68.54		1992-05-01	68.93	
1992-04-10	68.82		1992-03-13	69.01	
1992-02-28	69.43		1992-02-07	69.66	
1992-01-27	69.79		1992-01-10	69.62	
1991-12-12	70.00		1991-11-26	70.04	
1991-11-25	69.99		1991-11-08	70.13	
1991-08-20	69.82		1991-07-31	70.00	
1991-06-12	70.17		1991-05-30	70.40	
1991-05-24	69.97		1991-04-26	70.37	
1991-04-12	70.29		1991-03-06	71.36	
1991-02-22	72.22		1991-02-06	72.16	
1991-01-22	71.89		1991-01-18	71.94	
1990-12-06	72.59		1990-11-26	72.38	
1990-11-14	72.68		1990-10-31	72.86	
1990-09-10	73.03				
1990-08-28	74.05				
Note: Other conditions existed that would affect the measured water level.					
1990-08-26	73.06				
Note: Other conditions existed that would affect the measured water level.					
1990-08-22	73.12				
Note: Other conditions existed that would affect the measured water level.					
1990-08-14	72.77		1990-08-13	73.32	
1990-08-02	73.54		1990-07-03	73.76	
1990-05-18	74.30		1990-03-05	75.20	
1990-03-01	75.45		1990-02-14	75.62	

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

A5
SSW | **FED USGS** | **USGS40000133747**
0 - 1/8 Mile
Higher

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-332732117062301		
Monloc name:	008S002W29B002S		
Monloc type:	Well		
Monloc desc:	MULTIPLE PIEZOMETER HOLE WV-1-785		
Huc code:	18070302	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	33.4589184
Longitude:	-117.1072524	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	1074.08
Vert measure units:	feet	Vertacc measure val:	.01
Vert accmeasure units:	feet		
Vertcollection method:	Level or other surveying method		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19900202	Welldepth:	785
Welldepth units:	ft	Wellholedepth:	1004
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 49

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1993-04-22	62.58		1993-04-13	62.50	
1993-03-22	62.87		1993-03-16	63.06	
1992-12-30	68.28		1992-11-17	68.78	
1992-10-15	69.25				
Note: A nearby site that taps the same aquifer had been pumped recently.					
1992-09-17	68.44		1992-09-01	68.38	
1992-07-15	68.50		1992-06-19	68.09	
1992-05-28	67.89		1992-05-01	68.30	
1992-04-10	67.99		1992-03-13	68.17	
1992-02-07	68.87		1992-01-27	68.99	
1992-01-10	68.76		1991-12-12	69.24	
1991-11-25	69.22		1991-11-08	69.34	
1991-08-20	69.03		1991-07-31	69.09	
1991-06-13	69.26		1991-05-30	69.29	
1991-05-24	69.14		1991-04-26	69.48	
1991-04-12	69.33		1991-03-06	70.46	
1991-02-22	71.23		1991-02-06	71.07	
1991-01-24	70.81		1991-01-18	70.84	
1990-12-06	71.58		1990-11-26	71.41	
1990-11-14	71.74		1990-10-31	72.01	
1990-09-10	72.09				
1990-08-28	72.09				
Note: Other conditions existed that would affect the measured water level.					
1990-08-26	72.14				
Note: Other conditions existed that would affect the measured water level.					

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1990-08-22	72.20				
Note: Other conditions existed that would affect the measured water level.					
1990-08-14	72.35				
Note: Other conditions existed that would affect the measured water level.					
1990-08-13	72.36		1990-08-02	72.57	
1990-07-03	73.09		1990-05-03	73.13	
1990-03-05	74.28		1990-03-01	74.35	
1990-02-14	74.53				

A6
SSW **FED USGS** **USGS40000133750**
0 - 1/8 Mile
Higher

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-332732117062304		
Monloc name:	008S002W29B005S		
Monloc type:	Well		
Monloc desc:	MULTIPLE PIEZOMETER HOLE WV-2-400		
Huc code:	18070302	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	33.4589184
Longitude:	-117.1072524	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	1074.00
Vert measure units:	feet	Vertacc measure val:	.01
Vert accmeasure units:	feet		
Vertcollection method:	Level or other surveying method		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19900205	Welldepth:	400
Welldepth units:	ft	Wellholedepth:	410
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 47

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1993-04-22	62.46		1993-04-13	62.46	
1993-03-22	62.93		1993-03-16	63.25	
1992-12-30	68.26		1992-11-17	68.59	
1992-10-15	68.95				
Note: A nearby site that taps the same aquifer had been pumped recently.					
1992-09-17	68.28				
1992-09-01	68.21				
Note: Foreign substance was present on the surface of the water.					
1992-07-15	68.13		1992-06-19	67.64	
1992-05-01	67.50		1992-04-10	67.74	
1992-03-13	68.02		1992-02-28	68.38	
1992-02-07	68.63		1992-01-27	68.78	
1992-01-10	68.68		1991-12-12	68.99	

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1991-11-26	68.92		1991-11-25	68.90	
1991-11-08	68.99		1991-08-20	68.68	
1991-07-31	68.78		1991-06-13	68.89	
1991-05-30	69.04		1991-05-24	68.71	
1991-04-26	69.03		1991-04-12	69.12	
1991-03-06	70.23		1991-02-22	70.77	
1991-02-06	70.73		1991-01-22	70.56	
1991-01-18	70.6		1990-12-10	71.80	
1990-11-26	71.00		1990-11-14	71.27	
1990-10-31	71.51		1990-09-10	71.47	
1990-08-26	71.63				
Note: Other conditions existed that would affect the measured water level.					
1990-08-22	71.69				
Note: Other conditions existed that would affect the measured water level.					
1990-08-14	71.94		1990-07-03	72.09	
1990-05-03	72.07		1990-03-05	74.05	
1990-03-01	74.22		1990-02-14	73.99	

A7
SW **CA WELLS** **CADW60000022039**
1/8 - 1/4 Mile
Higher

Objectid:	22039
Latitude:	33.4592
Longitude:	-117.1082
Site code:	334592N1171082W001
State well numbe:	08S02W29B010S
Local well name:	’’
Well use id:	6
Well use descrip:	Unknown
County id:	33
County name:	Riverside
Basin code:	’9-5’
Basin desc:	Temecula Valley
Dwr region id:	80238
Dwr region:	Southern Region Office
Site id:	CADW60000022039

A8
SW **CA WELLS** **CADW60000022035**
1/8 - 1/4 Mile
Higher

Objectid:	22035
Latitude:	33.4589
Longitude:	-117.1082
Site code:	334589N1171082W003
State well numbe:	08S02W29B004S
Local well name:	’’
Well use id:	6
Well use descrip:	Unknown
County id:	33
County name:	Riverside

Basin code:	'9-5'
Basin desc:	Temecula Valley
Dwr region id:	80238
Dwr region:	Southern Region Office
Site id:	CADW60000022035

A9
SW
1/8 - 1/4 Mile
Higher

CA WELLS **CADW60000022034**

Objectid:	22034
Latitude:	33.4589
Longitude:	-117.1082
Site code:	334589N1171082W001
State well numbe:	08S02W29B002S
Local well name:	''
Well use id:	6
Well use descrip:	Unknown
County id:	33
County name:	Riverside
Basin code:	'9-5'
Basin desc:	Temecula Valley
Dwr region id:	80238
Dwr region:	Southern Region Office
Site id:	CADW60000022034

A10
SW
1/8 - 1/4 Mile
Higher

CA WELLS **CADW60000022036**

Objectid:	22036
Latitude:	33.4589
Longitude:	-117.1082
Site code:	334589N1171082W004
State well numbe:	08S02W29B005S
Local well name:	''
Well use id:	6
Well use descrip:	Unknown
County id:	33
County name:	Riverside
Basin code:	'9-5'
Basin desc:	Temecula Valley
Dwr region id:	80238
Dwr region:	Southern Region Office
Site id:	CADW60000022036

A11
SW
1/8 - 1/4 Mile
Higher

CA WELLS **CADW60000035755**

Objectid:	35755
Latitude:	33.4589
Longitude:	-117.1082
Site code:	334589N1171082W005
State well numbe:	08S02W29B006S
Local well name:	''
Well use id:	6
Well use descrip:	Unknown
County id:	33
County name:	Riverside
Basin code:	'9-5'
Basin desc:	Temecula Valley
Dwr region id:	80238
Dwr region:	Southern Region Office
Site id:	CADW60000035755

A12
SW **CA WELLS** **CADW60000035754**
1/8 - 1/4 Mile
Higher

Objectid:	35754
Latitude:	33.4589
Longitude:	-117.1082
Site code:	334589N1171082W002
State well numbe:	08S02W29B003S
Local well name:	''
Well use id:	6
Well use descrip:	Unknown
County id:	33
County name:	Riverside
Basin code:	'9-5'
Basin desc:	Temecula Valley
Dwr region id:	80238
Dwr region:	Southern Region Office
Site id:	CADW60000035754

B13
WSW **FED USGS** **USGS40000133752**
1/8 - 1/4 Mile
Lower

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-332732117063001		
Monloc name:	008S002W29C001S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	18070302	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	33.4589183
Longitude:	-117.1091969	Sourcemap scale:	24000

Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	1071.00
Vert measure units:	feet	Vertacc measure val:	.1
Vert accmeasure units:	feet		
Vertcollection method:	Level or other surveying method		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19180101	Welldepth:	500
Welldepth units:	ft	Wellholedepth:	500
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 161

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1987-03-18					
Note: The well was destroyed (no water level is recorded).					
1986-12-05	5.55		1985-12-05	5.14	
1985-09-13	4.39				
1983-12-07					
Note: The site was flowing, but the head could not be measured without additional equipment.					
1983-10-03					
Note: The site was flowing, but the head could not be measured without additional equipment.					
1983-06-27					
Note: The site was flowing, but the head could not be measured without additional equipment.					
1983-03-23					
Note: The site was flowing, but the head could not be measured without additional equipment.					
1982-06-30					
Note: The site was flowing, but the head could not be measured without additional equipment.					
1982-04-12					
Note: The site was flowing, but the head could not be measured without additional equipment.					
1982-02-26					
Note: The site was flowing, but the head could not be measured without additional equipment.					
1981-11-24	0.70		1981-10-14	0.40	
1981-09-15					
Note: The site was flowing, but the head could not be measured without additional equipment.					
1981-07-10					
Note: The site was flowing, but the head could not be measured without additional equipment.					
1981-04-08					
Note: The site was flowing, but the head could not be measured without additional equipment.					
1981-03-10					
Note: The site was flowing, but the head could not be measured without additional equipment.					
1980-12-10					
Note: The site was flowing, but the head could not be measured without additional equipment.					
1980-11-04					
Note: The site was flowing, but the head could not be measured without additional equipment.					
1980-10-07					
Note: The site was flowing, but the head could not be measured without additional equipment.					
1980-09-02					
Note: The site was flowing, but the head could not be measured without additional equipment.					
1980-07-31					
Note: The site was flowing, but the head could not be measured without additional equipment.					
1980-06-30					
Note: The site was flowing, but the head could not be measured without additional equipment.					
1980-05-14					
Note: The site was flowing, but the head could not be measured without additional equipment.					

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1980-04-08					
Note: The site was flowing, but the head could not be measured without additional equipment.					
1980-02-29					
Note: The site was flowing, but the head could not be measured without additional equipment.					
1980-02-18					
Note: The site was flowing, but the head could not be measured without additional equipment.					
1980-01-31					
Note: The site was flowing, but the head could not be measured without additional equipment.					
1980-01-27					
Note: The site was flowing, but the head could not be measured without additional equipment.					
1979-12-26					
Note: The site was flowing, but the head could not be measured without additional equipment.					
1979-11-20					
Note: The site was flowing, but the head could not be measured without additional equipment.					
1979-09-06					
Note: The site was flowing, but the head could not be measured without additional equipment.					
1979-08-09					
Note: The site was flowing, but the head could not be measured without additional equipment.					
1979-07-12					
Note: The site was flowing, but the head could not be measured without additional equipment.					
1979-06-12					
Note: The site was flowing, but the head could not be measured without additional equipment.					
1979-05-09					
Note: The site was flowing, but the head could not be measured without additional equipment.					
1979-04-11					
Note: The site was flowing, but the head could not be measured without additional equipment.					
1979-03-21					
Note: The site was flowing, but the head could not be measured without additional equipment.					
1979-02-08	0.08		1979-01-09	0.31	
1978-10-03	0.48		1978-09-08	0.00	
1978-08-03	0.00		1978-03-08	3.55	
1978-02-17	6.16		1978-01-26	8.41	
1977-12-21	10.87		1977-11-22	11.66	
1977-09-23	12.30		1977-08-26	11.30	
1977-07-19	11.89		1977-06-15	11.10	
1977-05-23	11.63		1977-05-02	12.83	
1977-03-31	12.78		1977-03-07	12.83	
1977-02-02	12.99		1976-12-28	13.74	
1976-12-02	14.00		1976-11-03	13.98	
1976-10-08	14.56		1976-09-13	14.93	
1976-08-13	15.21		1976-07-15	15.28	
1976-06-16	15.52		1976-05-20	15.51	
1976-04-22	14.31		1976-03-24	15.06	
1976-02-19	14.83		1976-01-13	14.91	
1975-12-11	17.27		1975-11-07	17.95	
1975-09-24	18.55		1975-08-25	18.30	
1975-07-25	18.12		1975-06-27	17.72	
1975-05-23	17.30		1975-04-23	10.30	
1975-03-27	6.47		1975-02-27	6.71	
1975-01-29	6.60		1973-03-29	6.33	
1972-05-18	5.44		1968-03-19	1.89	
1967-10-10	1.84		1967-09-13	1.86	
1967-09-01	2.00		1967-03-28	1.98	
1966-09-27	6.82		1966-03-24	5.90	
1966-02-24	6.25		1966-01-24	7.98	

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel
1965-12-27	8.46	
1965-08-19	10.31	
1965-05-05	9.66	
1965-02-17	10.14	
1964-12-17	10.15	
1964-08-31	10.19	
1964-07-02	9.66	
1964-04-29	9.42	
1964-02-28	9.25	
1963-12-23	9.36	
1963-10-24	9.41	
1963-08-27	8.97	
1963-07-03	8.98	
1963-05-02	8.71	
1963-01-07	8.70	
1962-10-24	8.48	
1962-08-22	7.97	
1962-06-26	7.32	
1962-04-05	7.02	
1961-11-09	8.40	
1961-08-16	8.73	
1961-05-29	8.63	
1961-03-07	8.26	
1961-01-17	7.82	
1960-10-25	7.39	
1960-08-19	6.70	
1960-06-16	5.86	
1960-04-15	5.16	
1960-02-16	4.61	
1960-01-15	4.41	
1959-10-28	3.87	
1959-09-23	3.96	
1954-04-23	7.00	
1953-05-27	4.00	
1918-02-12		
1965-10-15	10.60	
1965-07-07	9.85	
1965-03-30	10.26	
1965-01-14	10.09	
1964-10-15	10.32	
1964-07-30	9.61	
1964-05-29	9.81	
1964-03-28	9.52	
1964-01-29	9.21	
1963-12-02	9.38	
1963-09-26	9.55	
1963-07-30	8.96	
1963-05-28	8.89	
1963-02-12	8.62	
1962-12-04	8.58	
1962-09-24	8.22	
1962-07-17	7.44	
1962-05-23	7.16	
1962-01-25	8.05	
1961-09-27	8.64	
1961-07-11	8.68	
1961-04-20	8.47	
1961-02-08	8.03	
1960-12-08	7.54	
1960-09-18	7.02	
1960-07-15	6.23	
1960-05-16	5.49	
1960-03-17	4.89	
1960-01-28	4.58	
1959-11-20	3.98	
1959-10-22	3.87	
1958-10-29	3.09	
1953-11-20	6.80	
1951-03-28	10.87	

Note: The site was flowing, but the head could not be measured without additional equipment.

B14
SW
1/8 - 1/4 Mile
Higher

FED USGS **USGS40000133740**

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-332729117062701		
Monloc name:	008S002W29B001S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	18070302	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	33.458085
Longitude:	-117.1083636	Sourcemap scale:	Not Reported

Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	1075.00
Vert measure units:	feet	Vertacc measure val:	20
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	200
Welldepth units:	ft	Wellholedepth:	200
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

C15
NNE **FED USGS** **USGS40000133798**
1/8 - 1/4 Mile
Lower

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-332747117061102		
Monloc name:	008S002W20J002S		
Monloc type:	Well		
Monloc desc:	MULTIPLE-PIEZOMETER HOLE WV-5-180		
Huc code:	18070302	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	33.4631683
Longitude:	-117.1052523	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Global positioning system (GPS), uncorrected		
Horiz coord refsys:	NAD83	Vert measure val:	1076.23
Vert measure units:	feet	Vertacc measure val:	.01
Vert accmeasure units:	feet		
Vertcollection method:	Level or other surveying method		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19900218	Welldepth:	180
Welldepth units:	ft	Wellholedepth:	590
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 148

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
2005-03-02	90.02		2005-02-04	90.28	
2005-01-04	90.31		2004-12-08	90.29	
2004-11-03	89.87		2004-10-01	89.69	
2004-09-01	89.40		2004-08-02	89.15	
2004-07-01	88.93		2004-06-01	88.68	
2004-05-10	88.82		2004-04-13	88.61	
2004-03-08	88.62		2004-02-12	88.70	
2004-01-15	88.51		2003-12-05	88.40	
2003-11-03	88.33		2003-10-03	88.15	
2003-09-02	88.02		2003-08-01	87.79	

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
2003-07-07	87.60		2003-06-02	87.22	
2003-05-01	86.98		2003-04-02	86.72	
2003-03-03	86.33		2003-02-04	86.02	
2003-01-10	85.75		2002-12-02	85.20	
2002-11-01	84.83		2002-10-03	84.35	
2002-09-03	83.88		2002-08-01	83.44	
2002-07-02	83.15		2002-06-03	82.63	
2002-05-01	82.23		2002-04-02	82.04	
2002-03-05	81.47		2002-02-13	81.22	
2002-01-04	80.69		2001-12-05	80.14	
2001-11-01	79.48		2001-10-03	78.94	
2001-09-06	78.55		2001-08-02	77.96	
2001-07-03	77.23		2001-06-07	76.81	
2001-05-04	76.64		2001-04-06	76.32	
2001-03-13	75.94		2001-02-01	75.66	
2001-01-04	75.26		2000-12-06	74.68	
2000-11-07	73.74		2000-10-04	72.36	
2000-09-06	72.77		2000-08-01	71.74	
2000-07-06	71.36		2000-06-05	70.35	
2000-05-09	69.66				
2000-04-03	68.94				
Note: A nearby site that taps the same aquifer had been pumped recently.					
2000-03-13	68.27				
Note: A nearby site that taps the same aquifer had been pumped recently.					
2000-02-09	67.99				
Note: A nearby site that taps the same aquifer had been pumped recently.					
2000-01-06	67.48		1999-12-14	66.94	
1999-11-12	66.63		1999-10-15	65.73	
1999-09-08	65.02		1999-08-03	63.75	
1999-07-01	62.71		1999-06-10	62.43	
1999-05-03	73.73		1999-04-08	60.67	
1999-03-01	59.73		1999-02-01	59.07	
1999-01-05	58.41		1998-12-07	57.95	
1998-11-23	57.68		1998-10-16	57.39	
1998-09-10	56.83		1998-08-11	56.08	
1998-07-02	55.59		1998-06-02	55.38	
1998-05-01	54.99		1998-04-08	55.09	
1998-03-02	55.80		1998-01-23	55.23	
1997-12-12	54.82		1997-11-07	53.87	
1997-10-16	53.58		1997-09-09	52.67	
1997-08-15	52.58				
Note: A nearby site that taps the same aquifer was being pumped.					
1997-07-21	51.95		1997-06-02	51.06	
1997-05-05	50.33		1997-04-09	49.62	
1997-03-13	48.99		1997-02-19	48.63	
1997-01-24	48.72		1996-12-03	48.21	
1996-11-04	48.35		1996-10-18	48.14	
1993-04-22	57.15		1993-04-13	57.55	
1993-03-22	58.58		1993-03-16	58.84	
1992-12-30	60.95		1992-11-17	60.85	
1992-10-15	60.93		1992-09-17	60.67	
1992-09-01	60.61		1992-07-23	60.46	
1992-07-15	60.42		1992-06-19	60.33	
1992-05-28	60.33		1992-05-01	60.39	
1992-04-10	60.47		1992-03-13	60.61	

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1992-02-23	60.65		1992-02-07	60.73	
1992-01-27	60.74		1992-01-10	60.68	
1991-12-12	60.67		1991-11-26	60.57	
1991-11-08	60.49		1991-08-20	60.29	
1991-07-31	60.35		1991-06-13	60.40	
1991-05-30	60.38				
1991-05-24	60.43				
Note: Foreign substance was present on the surface of the water.					
1991-04-26	60.50		1991-04-12	60.64	
1991-03-06	61.03		1991-02-22	61.05	
1991-02-06	61.03		1991-01-24	61.09	
1991-01-22	61.05		1991-01-18	61.06	
1990-12-19	61.12		1990-12-10	61.13	
1990-11-29	61.20		1990-11-14	61.23	
1990-10-31	61.32		1990-08-15	61.65	
1990-08-02	61.80		1990-07-03	61.88	
1990-05-03	62.21		1990-03-15	62.41	
1990-03-05	62.47				

C16
NNE **CA WELLS** **CADW60000000375**
1/8 - 1/4 Mile
Higher

Objectid:	375
Latitude:	33.4631
Longitude:	-117.1048
Site code:	334631N1171048W001
State well numbe:	08S02W20J001S
Local well name:	'Wolf Valley 20J01'
Well use id:	1
Well use descrip:	Observation
County id:	33
County name:	Riverside
Basin code:	'9-5'
Basin desc:	Temecula Valley
Dwr region id:	80238
Dwr region:	Southern Region Office
Site id:	CADW60000000375

C17
NNE **CA WELLS** **CADW60000021378**
1/8 - 1/4 Mile
Higher

Objectid:	21378
Latitude:	33.4631
Longitude:	-117.1048
Site code:	334631N1171048W002
State well numbe:	08S02W20J002S
Local well name:	'Wolf Valley 20J02'
Well use id:	1
Well use descrip:	Observation
County id:	33
County name:	Riverside

Basin code:	'9-5'
Basin desc:	Temecula Valley
Dwr region id:	80238
Dwr region:	Southern Region Office
Site id:	CADW60000021378

B18
SW **FED USGS** **USGS40000133741**
1/8 - 1/4 Mile
Higher

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-332729117063101		
Monloc name:	008S002W29B011S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	Not Reported	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	33.4580556
Longitude:	-117.108611	Sourcemap scale:	Not Reported
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Global positioning system (GPS), uncorrected		
Horiz coord refsys:	NAD83	Vert measure val:	1073
Vert measure units:	feet	Vertacc measure val:	20
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	20060802	Welldepth:	Not Reported
Welldepth units:	Not Reported	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

D19
SW **FED USGS** **USGS40000133736**
1/8 - 1/4 Mile
Higher

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-332728117062701		
Monloc name:	008S002W29B007S		
Monloc type:	Well		
Monloc desc:	MULTIPLE PIEZOMETER HOLE WV-3-510		
Huc code:	18070302	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	33.4578073
Longitude:	-117.1083636	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	1075.98
Vert measure units:	feet	Vertacc measure val:	.01
Vert accmeasure units:	feet		
Vertcollection method:	Level or other surveying method		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		

Aquifer type:	Not Reported		
Construction date:	19900214	Welldepth:	510
Welldepth units:	ft	Wellholedepth:	524
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 141

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
2005-03-02	44.08		2005-02-04	51.39	
2005-01-04	62.78		2004-12-08	131.40	
2004-11-03	100.56		2004-10-01	94.98	
2004-09-01	66.61				
Note: A nearby site that taps the same aquifer was being pumped.					
2004-08-02	88.59				
Note: A nearby site that taps the same aquifer was being pumped.					
2004-07-01	112.99				
Note: A nearby site that taps the same aquifer was being pumped.					
2004-06-01					
Note: An obstruction was encountered in the well above the water surface (no water level recorded).					
2004-05-10	88.30				
2003-10-03	68.73				
Note: The site had been pumped recently.					
2003-09-02	69.50				
Note: A nearby site that taps the same aquifer was being pumped.					
2003-08-01	51.97				
2003-07-07	116.89				
Note: A nearby site that taps the same aquifer was being pumped.					
2003-06-02	48.22				
2003-05-01	85.61				
Note: A nearby site that taps the same aquifer was being pumped.					
2003-04-02	85.96				
Note: A nearby site that taps the same aquifer was being pumped.					
2003-03-03	49.24				
2003-02-04	113.26				
Note: A nearby site that taps the same aquifer was being pumped.					
2003-01-10	68.40				
2002-12-02	119.12				
Note: A nearby site that taps the same aquifer was being pumped.					
2002-11-07	114.47				
Note: A nearby site that taps the same aquifer was being pumped.					
2002-10-03	100.77				
Note: A nearby site that taps the same aquifer was being pumped.					
2002-09-03	107.10				
Note: A nearby site that taps the same aquifer was being pumped.					
2002-08-01	24.37				
2002-07-02	18.74				
Note: A nearby site that taps the same aquifer had been pumped recently.					
2002-06-03	17.15		2002-05-01	16.77	
2002-04-02	17.12		2002-03-05	15.76	
2002-02-13	15.22				
Note: A nearby site that taps the same aquifer was being pumped.					
2002-01-04	14.18		2001-12-05	14.58	
2001-11-01	15.90		2001-10-03	15.58	
2001-09-06	15.73		2001-08-02	14.80	
2001-07-03	14.17		2001-06-07	13.24	
2001-05-04	12.72		2001-04-06	13.39	
2001-03-13	13.23		2001-02-01	13.94	
2001-01-04	14.94		2000-12-06	14.08	

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
2000-11-07	15.08		2000-10-04	15.15	
2000-09-06	15.85		2000-08-01	20.50	
2000-07-06	13.62		2000-06-05	15.07	
2000-05-09	23.14		2000-04-03	8.32	
2000-03-13	7.21		2000-02-09	7.33	
2000-01-06	7.52		1999-12-14	6.37	
1999-11-12	7.01		1999-10-15	6.92	
1999-09-08	6.09		1999-08-03	5.78	
1999-07-30	4.71		1999-06-10	4.74	
1999-05-03	6.52		1999-04-06	4.46	
1999-03-02	3.34		1999-02-01	3.38	
1999-01-05	2.74		1998-12-07	1.82	
1998-11-23	0.47		1998-10-16	0.54	
1998-09-10	0.70		1998-08-11	1.00	
1998-07-02	0.23		1998-06-02	0.45	
1998-05-01	1.60		1998-04-08	1.49	
1998-03-02	4.50		1998-01-23	6.31	
1997-12-12	6.68		1997-11-07	7.02	
1997-10-16	6.76		1997-09-09	6.61	
1997-08-15	7.15		1997-07-21	5.64	
1997-06-02	3.55		1997-05-05	4.51	
1997-04-09	4.17		1997-03-13	3.19	
1997-02-19	4.08		1997-01-24	4.15	
1996-12-03	5.59		1996-11-04	4.94	
1996-10-18	4.94		1993-04-22	-0.24	
1993-04-13	0.10		1993-03-22	1.48	
1993-03-16	1.87		1992-12-30	9.98	
1992-11-17	10.06		1992-10-15	10.26	
1992-09-17	9.79		1992-09-01	9.67	
1992-07-15	8.14		1992-06-19	7.51	
1992-05-28	7.57		1992-05-01	8.12	
1992-04-10	8.23		1992-03-13	9.02	
1992-02-28	9.53		1992-02-07	10.19	
1992-01-27	10.42		1992-01-10	10.40	
1991-12-12	10.63		1991-11-25	10.58	
1991-11-08	10.88		1991-08-20	10.67	
1991-07-31	10.83		1991-06-12	12.04	
1991-05-30	12.63		1991-05-24	13.05	
1991-04-12	16.11				
Note: A nearby site that taps the same aquifer had been pumped recently.					
1991-03-06	17.72		1991-02-22	17.37	
1991-01-22	17.42		1991-01-18	17.67	
1990-12-10	20.74				
1990-11-26	21.44				
Note: A nearby site that taps the same aquifer had been pumped recently.					
1990-11-20	21.86				
Note: A nearby site that taps the same aquifer had been pumped recently.					
1990-11-14	22.10				
Note: A nearby site that taps the same aquifer had been pumped recently.					
1990-10-31	22.18				
Note: A nearby site that taps the same aquifer had been pumped recently.					
1990-08-28	17.61				
Note: A nearby site that taps the same aquifer had been pumped recently.					
1990-08-22	16.92				
Note: A nearby site that taps the same aquifer had been pumped recently.					

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1990-08-16	16.55				
Note: A nearby site that taps the same aquifer had been pumped recently.					
1990-08-14	15.98				
Note: A nearby site that taps the same aquifer had been pumped recently.					
1990-08-13	15.85		1990-07-03	12.99	
1990-05-03	11.69		1990-03-05	11.50	
1990-03-01	12.25				

D20
SW
1/8 - 1/4 Mile
Higher

FED USGS **USGS40000133737**

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-332728117062702		
Monloc name:	008S002W29B008S		
Monloc type:	Well		
Monloc desc:	MULTIPLE PIEZOMETER HOLE WV-3-332		
Huc code:	18070302	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	33.4578073
Longitude:	-117.1083636	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	1075.98
Vert measure units:	feet	Vertacc measure val:	.01
Vert accmeasure units:	feet		
Vertcollection method:	Level or other surveying method		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19900214	Welldepth:	332
Welldepth units:	ft	Wellholedepth:	524
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 144

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
2005-03-02	43.80		2005-02-04	50.20	
2005-01-04	60.18		2004-12-08	132.63	
2004-11-03	101.35		2004-10-01	93.08	
2004-09-01	68.70				
Note: A nearby site that taps the same aquifer was being pumped.					
2004-08-02	87.37				
Note: A nearby site that taps the same aquifer was being pumped.					
2004-07-01	114.66				
Note: A nearby site that taps the same aquifer was being pumped.					
2004-06-01					
Note: An obstruction was encountered in the well above the water surface (no water level recorded).					
2004-05-10	86.14		2003-11-03	45.51	
2003-10-03	68.44				
2003-09-02	70.53				
Note: A nearby site that taps the same aquifer was being pumped.					

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel
2003-08-01	49.39	
2003-07-07	118.11	
Note: A nearby site that taps the same aquifer was being pumped.		
2003-06-02	46.61	
2003-05-01	88.50	
Note: A nearby site that taps the same aquifer was being pumped.		
2003-04-02	87.79	
Note: A nearby site that taps the same aquifer was being pumped.		
2003-03-03	46.19	
2003-02-04	115.50	
Note: A nearby site that taps the same aquifer was being pumped.		
2003-01-10	66.24	
2002-12-02	119.35	
Note: A nearby site that taps the same aquifer was being pumped.		
2002-11-07	116.66	
Note: A nearby site that taps the same aquifer was being pumped.		
2002-10-03	99.74	
Note: A nearby site that taps the same aquifer was being pumped.		
2002-09-03	111.69	
Note: A nearby site that taps the same aquifer was being pumped.		
2002-08-01	24.74	
2002-07-02	19.43	
Note: A nearby site that taps the same aquifer had been pumped recently.		
2002-06-03	17.72	
2002-05-01	17.08	
2002-04-02	17.47	
2002-03-05	16.34	
2002-02-13	15.69	
2002-01-04	14.95	
2001-12-05	15.03	
2001-11-01	16.20	
2001-10-03	15.80	
2001-09-06	16.12	
2001-08-02	15.15	
2001-07-03	14.90	
2001-06-07	13.57	
2001-05-04	13.39	
2001-04-06	13.66	
2001-03-13	13.59	
2001-02-01	14.44	
2001-01-04	15.24	
2000-12-06	15.19	
2000-11-07	15.22	
2000-10-04	15.37	
2000-09-06	16.02	
2000-08-01	20.45	
2000-07-06	13.76	
2000-06-05	15.58	
2000-05-09	22.99	
2000-04-03	11.85	
2000-03-13	11.40	
2000-02-09	11.99	
2000-01-06	11.29	
1999-12-14	10.49	
1999-11-12	10.71	
1999-10-15	11.07	
1999-09-08	10.33	
1999-08-03	10.07	
1999-07-01	9.42	
1999-06-10	7.61	
1999-05-03	8.18	
1999-04-06	8.92	
1999-03-02	8.07	
1999-02-01	7.18	
1999-01-05	6.29	
1998-12-07	5.90	
1998-11-23	5.64	
1998-10-16	4.50	
1998-09-10	4.65	
1998-08-11	5.60	
1998-07-02	4.18	
1998-06-02	4.25	
1998-05-01	5.02	
1998-04-08	5.33	
1998-03-02	7.35	
1998-01-23	9.87	
1997-12-12	10.44	
1997-11-07	10.91	
1997-10-16	10.36	
1997-09-09	10.89	
1997-08-15	10.54	
1997-07-21	10.08	
1997-06-02	7.51	
1997-05-05	7.91	
1997-04-09	8.35	
1997-03-13	7.26	
1997-02-19	7.22	

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1997-01-24	7.90		1996-12-03	9.19	
1996-11-04	8.25		1996-10-18	8.43	
1993-04-22	3.71		1993-04-13	4.14	
1993-03-22	5.54		1993-03-16	5.92	
1992-12-30	15.46		1992-11-17	15.17	
1992-10-15	15.94		1992-09-17	15.20	
1992-09-01	15.43		1992-07-15	14.33	
1992-06-19	13.20		1992-05-28	13.10	
1992-05-01	13.17		1992-04-10	13.26	
1992-03-13	14.07		1992-02-28	14.56	
1992-02-07	15.16		1992-01-10	15.55	
1991-12-12	15.69		1991-11-25	15.31	
1991-11-08	15.48		1991-08-20	15.52	
1991-07-31	15.33		1991-06-12	15.28	
1991-05-30	15.38		1991-05-24	15.46	
1991-04-26	16.68				
1991-04-12	17.67				
Note: A nearby site that taps the same aquifer had been pumped recently.					
1991-03-06	21.24		1991-02-22	21.30	
1991-02-06	19.96		1991-01-22	19.89	
1991-01-18	20.01		1990-12-10	21.85	
1990-11-30	22.34				
Note: A nearby site that taps the same aquifer had been pumped recently.					
1990-11-26	22.54				
Note: A nearby site that taps the same aquifer had been pumped recently.					
1990-11-20	22.87				
Note: A nearby site that taps the same aquifer had been pumped recently.					
1990-11-14	23.18				
Note: A nearby site that taps the same aquifer had been pumped recently.					
1990-10-31	23.69				
Note: A nearby site that taps the same aquifer had been pumped recently.					
1990-08-28	22.13				
Note: A nearby site that taps the same aquifer had been pumped recently.					
1990-08-22	21.81				
Note: A nearby site that taps the same aquifer had been pumped recently.					
1990-08-16	21.53				
Note: A nearby site that taps the same aquifer had been pumped recently.					
1990-08-14	21.36				
Note: A nearby site that taps the same aquifer had been pumped recently.					
1990-08-13	21.25				
Note: A nearby site that taps the same aquifer had been pumped recently.					
1990-07-03	16.86		1990-05-03	16.42	
1990-03-05	16.47		1990-03-01	16.55	

D21
SW
1/8 - 1/4 Mile
Higher

FED USGS **USGS40000133738**

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-332728117062703		
Monloc name:	008S002W29B009S		
Monloc type:	Well		
Monloc desc:	DEPTH SOUNDED 7/30/08, 109 FT BLW LSD K. STUMPF		
Huc code:	18070302	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	33.4578073
Longitude:	-117.1083636	Sourcemap scale:	24000

Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	1075.93
Vert measure units:	feet	Vertacc measure val:	.01
Vert accmeasure units:	feet		
Vertcollection method:	Level or other surveying method		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19900215	Welldepth:	109
Welldepth units:	ft	Wellholedepth:	114
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 144

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
2005-03-02	75.25		2005-02-04	75.31	
2005-01-04	74.43		2004-12-08	72.43	
2004-11-03	70.47		2004-10-01	68.40	
2004-09-01	66.79		2004-08-02	64.97	
2004-07-01	66.19				
Note: A nearby site that taps the same aquifer was being pumped.					
2004-06-01					
Note: An obstruction was encountered in the well above the water surface (no water level recorded).					
2004-05-10	62.38		2003-11-03	58.81	
2003-10-03	59.54		2003-09-02	92.24	
2003-08-01	55.60				
2003-07-07	52.53				
Note: A nearby site that taps the same aquifer was being pumped.					
2003-06-02	52.71				
2003-05-01	51.32				
Note: A nearby site that taps the same aquifer was being pumped.					
2003-04-02	51.30		2003-03-03	51.32	
2003-02-04	51.17		2003-01-10	51.09	
2002-12-02	51.02				
Note: A nearby site that taps the same aquifer was being pumped.					
2002-11-07	51.12				
Note: A nearby site that taps the same aquifer was being pumped.					
2002-10-03	50.89				
Note: A nearby site that taps the same aquifer was being pumped.					
2002-09-03	47.76				
Note: A nearby site that taps the same aquifer was being pumped.					
2002-08-01	42.76				
2002-07-02	42.95				
Note: A nearby site that taps the same aquifer had been pumped recently.					
2002-06-03	41.54		2002-05-01	41.19	
2002-04-02	40.88		2002-03-05	40.62	
2002-02-13	40.34		2002-01-04	39.91	
2001-12-05	39.65		2001-11-01	39.29	
2001-10-03	38.95		2001-09-06	38.60	
2001-08-02	38.17		2001-07-03	37.88	
2001-06-07	37.63		2001-05-04	37.44	
2001-04-06	37.34		2001-03-13	37.40	
2001-02-01	37.28		2001-01-04	36.96	
2000-12-06	36.70		2000-11-07	36.48	
2000-10-04	35.95		2000-09-06	35.78	
2000-08-01	35.68		2000-07-06	34.63	

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
2000-06-05	34.42		2000-05-09	34.19	
2000-04-03	33.70		2000-03-13	33.43	
2000-02-09	33.28		2000-01-06	32.86	
1999-12-14	31.80		1999-11-12	33.33	
1999-10-15	30.74		1999-09-08	30.28	
1999-08-03	29.36		1999-07-01	29.11	
1999-06-10	27.79		1999-05-03	27.48	
1999-04-06	27.56		1999-03-02	27.25	
1999-02-01	26.84				
Note: A nearby site that taps the same aquifer was being pumped.					
1999-01-05	26.60		1998-12-07	26.91	
1998-11-23	26.77		1998-10-16	25.64	
1998-09-10	24.72		1998-08-11	25.18	
1998-07-02	25.73		1998-06-02	26.59	
1998-05-01	28.00		1998-04-08	29.05	
1998-03-02	30.89		1998-01-23	31.67	
1997-12-12	32.60		1997-11-07	32.70	
1997-10-16	31.92		1997-09-09	30.33	
1997-08-15	30.69		1997-07-21	30.57	
1997-06-02	27.44		1997-05-05	27.61	
1997-04-09	28.09		1997-03-12	28.36	
1997-02-19	28.00		1997-01-24	28.83	
1996-12-03	28.85		1996-11-04	28.12	
1996-10-18	28.11		1993-04-22	31.20	
1993-04-13	32.30		1993-03-22	35.66	
1993-03-06	36.70		1992-12-30	44.51	
1992-11-17	44.46		1992-10-15	44.45	
1992-09-17	44.42		1992-09-01	44.11	
1992-07-15	43.77		1992-06-19	43.66	
1992-05-28	43.67		1992-05-01	43.57	
1992-04-10	44.15		1992-03-13	44.75	
1992-02-28	45.00		1992-02-07	45.52	
1992-01-27	45.33		1992-01-10	45.17	
1991-12-12	45.35		1991-11-25	45.27	
1991-11-08	44.98		1991-08-20	44.47	
1991-07-31	44.36		1991-06-12	44.27	
1991-05-30	44.28		1991-05-24	44.47	
1991-04-26	44.39				
1991-04-17	44.69				
Note: A nearby site that taps the same aquifer had been pumped recently.					
1991-03-06	45.08		1991-02-22	45.22	
1991-02-06	45.50		1991-01-24	45.62	
1991-01-22	45.63		1991-01-18	45.73	
1990-12-14	46.45				
1990-11-26	46.99				
Note: A nearby site that taps the same aquifer had been pumped recently.					
1990-11-20	47.05				
Note: A nearby site that taps the same aquifer had been pumped recently.					
1990-11-14	47.04				
Note: A nearby site that taps the same aquifer had been pumped recently.					
1990-10-31	47.03				
Note: A nearby site that taps the same aquifer had been pumped recently.					
1990-08-22	46.47				
Note: A nearby site that taps the same aquifer had been pumped recently.					
1990-08-17	46.41				
Note: A nearby site that taps the same aquifer had been pumped recently.					

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1990-08-14	46.40				
Note: A nearby site that taps the same aquifer had been pumped recently.					
1990-08-13	46.30				
Note: A nearby site that taps the same aquifer had been pumped recently.					
1990-07-03	45.85		1990-05-03	45.26	
1990-03-05	44.90		1990-03-01	44.85	

C22
NNE
1/8 - 1/4 Mile
Higher

FED USGS **USGS40000133797**

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-332747117061101		
Monloc name:	008S002W20J001S		
Monloc type:	Well		
Monloc desc:	MULTIPLE-PIEZOMETER HOLE WV-5-575’		
Huc code:	18070302	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	33.4631389
Longitude:	-117.1043889	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Global positioning system (GPS), uncorrected		
Horiz coord refsys:	NAD83	Vert measure val:	1076.23
Vert measure units:	feet	Vertacc measure val:	.01
Vert accmeasure units:	feet		
Vertcollection method:	Level or other surveying method		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19900217	Welldepth:	575
Welldepth units:	ft	Wellholedepth:	590
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 170

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
2005-03-02	137.32		2005-02-04	147.52	
2005-01-04	152.09		2004-12-08	156.68	
2004-11-03	161.96		2004-10-01	166.51	
2004-09-01	165.49		2004-08-02	158.11	
2004-07-01	149.29		2004-06-01	150.23	
2004-05-10	141.40		2004-04-13	123.18	
2004-03-08	123.92		2004-02-12	125.73	
2004-01-15	129.79		2003-12-05	139.10	
2003-11-03	133.73		2003-10-03	134.60	
2003-09-02	136.78		2003-08-01	141.10	
2003-07-07	143.93		2003-06-02	149.29	
2003-05-01	158.53		2003-04-02	159.33	
2003-03-03	155.96		2003-02-04	164.96	
2003-01-10	155.53		2002-12-02	156.42	
2002-11-01	162.89		2002-10-03	160.66	

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
2002-09-03	159.45		2002-08-01	162.28	
2002-07-02	158.38		2002-06-03	155.46	
2002-05-01	150.81		2002-04-02	152.97	
2002-03-05	147.77		2002-02-13	150.03	
2002-01-04	143.98		2001-12-05	143.25	
2001-11-01	151.35		2001-10-03	152.81	
2001-09-06	158.00		2001-08-02	140.92	
2001-07-03	137.36		2001-06-07	135.71	
2001-05-04	130.43		2001-04-06	129.01	
2001-03-13	124.13		2001-02-01	132.28	
2001-01-04	143.95		2000-12-06	146.64	
2000-11-07	153.91		2000-10-04	134.43	
2000-09-06	135.44		2000-08-01	135.96	
2000-07-06	134.48		2000-06-05	150.23	
2000-05-09	143.04				
2000-04-03	129.77				
Note: A nearby site that taps the same aquifer had been pumped recently.					
2000-03-13	121.62				
Note: A nearby site that taps the same aquifer had been pumped recently.					
2000-02-09	132.67				
Note: A nearby site that taps the same aquifer had been pumped recently.					
2000-01-06	109.89				
Note: A nearby site that taps the same aquifer had been pumped recently.					
1999-12-14	108.04		1999-11-12	116.71	
1999-10-15	119.21		1999-09-08	113.84	
1999-08-03	113.81		1999-07-01	111.31	
1999-06-10	106.93		1999-05-03	119.83	
1999-04-08	111.12		1999-03-01	102.08	
1999-02-01	111.16		1999-01-05	107.46	
1998-12-07	103.96		1998-11-23	100.48	
1998-10-16	92.14		1998-09-10	92.12	
1998-08-11	95.88		1998-07-02	87.34	
1998-06-02	86.85		1998-05-01	91.32	
1998-04-08	80.32		1998-03-02	86.91	
1998-01-23	92.59		1997-12-12	86.83	
1997-11-07	91.69				
1997-10-16	84.70				
Note: A nearby site that taps the same aquifer was being pumped.					
1997-09-09	87.44				
Note: A nearby site that taps the same aquifer was being pumped.					
1997-08-15	91.15				
Note: A nearby site that taps the same aquifer was being pumped.					
1997-07-21	86.62		1997-06-02	81.72	
1997-05-05	87.42		1997-04-09	83.98	
1997-03-13	81.92				
Note: A nearby site that taps the same aquifer was being pumped.					
1997-02-19	75.90		1997-01-24	69.65	
1996-12-03	75.12		1996-11-04	71.23	
1996-10-18	70.85		1996-09-03	76.29	
1996-08-02	71.06		1996-07-10	68.73	
1996-06-03	74.82		1996-05-01	73.02	
1996-04-15	72.15		1996-03-18	66.94	
1996-02-08	67.85		1996-01-03	69.95	
1995-12-04	67.87		1995-11-03	74.02	
1995-10-03	72.00		1995-09-05	73.00	

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1995-08-11	73.65		1995-07-21	72.10	
1995-02-07	64.18		1995-01-04	64.40	
1994-12-06	63.50		1994-11-01	66.99	
1994-10-03	65.90		1994-09-01	66.45	
1994-08-17	65.62		1994-07-28	62.55	
1994-07-01	62.34		1993-04-22	63.74	
1993-04-13	63.65		1993-03-22	63.61	
1993-03-16	63.73		1992-12-30	69.85	
1992-11-17	70.08		1992-10-15	70.26	
1992-09-17	69.86		1992-09-01	69.77	
1992-07-23	69.41		1992-07-15	69.44	
1992-06-19	69.05		1992-05-28	68.84	
1992-05-01	68.87		1992-04-10	68.90	
1992-03-13	69.30		1992-02-28	68.56	
1992-02-07	69.81		1992-01-27	70.01	
1992-01-10	70.03		1991-12-12	70.28	
1991-11-26	70.17		1991-11-08	70.15	
1991-08-20	69.76		1991-07-31	69.76	
1991-06-13	69.62		1991-05-30	69.43	
1991-05-24	69.40		1991-04-12	69.62	
1991-03-06	70.81		1991-02-22	71.47	
1991-02-06	71.43		1991-01-22	71.43	
1991-01-18	71.48		1990-12-10	71.69	
1990-11-29	71.84		1990-11-14	71.86	
1990-10-31	72.03		1990-08-15	72.28	
1990-08-02	72.44		1990-07-03	72.52	
1990-05-18	72.93				
1990-05-03					

Note: An obstruction was encountered in the well above the water surface (no water level recorded).

1990-03-15	73.93		1990-03-05	73.70	

B23
WSW
1/8 - 1/4 Mile
Lower

CA WELLS **CADW60000035757**

Objectid:	35757
Latitude:	33.4589
Longitude:	-117.1101
Site code:	334589N1171101W001
State well numbe:	08S02W29C001S
Local well name:	''
Well use id:	6
Well use descrip:	Unknown
County id:	33
County name:	Riverside
Basin code:	'9-5'
Basin desc:	Temecula Valley
Dwr region id:	80238
Dwr region:	Southern Region Office
Site id:	CADW60000035757

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

B24
SW
1/8 - 1/4 Mile
Higher

CA WELLS **CADW60000022037**

Objectid:	22037
Latitude:	33.4578
Longitude:	-117.1093
Site code:	334578N1171093W001
State well numbe:	08S02W29B007S
Local well name:	''
Well use id:	6
Well use descrip:	Unknown
County id:	33
County name:	Riverside
Basin code:	'9-5'
Basin desc:	Temecula Valley
Dwr region id:	80238
Dwr region:	Southern Region Office
Site id:	CADW60000022037

B25
SW
1/8 - 1/4 Mile
Higher

CA WELLS **CADW60000022038**

Objectid:	22038
Latitude:	33.4578
Longitude:	-117.1093
Site code:	334578N1171093W003
State well numbe:	08S02W29B009S
Local well name:	''
Well use id:	6
Well use descrip:	Unknown
County id:	33
County name:	Riverside
Basin code:	'9-5'
Basin desc:	Temecula Valley
Dwr region id:	80238
Dwr region:	Southern Region Office
Site id:	CADW60000022038

B26
SW
1/8 - 1/4 Mile
Higher

CA WELLS **CADW60000035756**

Objectid:	35756
Latitude:	33.4578
Longitude:	-117.1093
Site code:	334578N1171093W002
State well numbe:	08S02W29B008S
Local well name:	''
Well use id:	6
Well use descrip:	Unknown
County id:	33
County name:	Riverside

Basin code: '9-5'
Basin desc: Temecula Valley
Dwr region id: 80238
Dwr region: Southern Region Office
Site id: CADW60000035756

27
ENE **FED USGS** **USGS40000133773**
1/4 - 1/2 Mile
Higher

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-332741117060401		
Monloc name:	008S002W20R001S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	18070302	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	33.4614184
Longitude:	-117.1019744	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	1087.00
Vert measure units:	feet	Vertacc measure val:	20
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19670331	Welldepth:	990
Welldepth units:	ft	Wellholedepth:	1000
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 183

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1991-09-11					
Note: The measurement was discontinued.					
1991-08-07	81.54		1991-07-03	81.33	
1991-06-06	81.48		1991-05-08	81.31	
1991-04-04	81.01		1991-03-19	81.43	
1991-02-08	82.29		1991-01-08	82.39	
1990-12-11	82.60		1990-11-08	83.01	
1990-10-05	82.79		1990-09-06	82.80	
1990-08-10	82.96		1990-07-12	83.10	
1990-06-06	83.27		1990-05-02	83.55	
1990-04-04	84.03		1990-03-20	84.28	
1990-02-15	84.68		1990-01-05	85.21	
1989-12-06	85.56				
1989-11-07	85.96				
Note: The site had been pumped recently.					
1989-10-17	86.20		1989-09-05	87.06	
1989-08-02	87.70		1989-07-05	88.36	
1989-06-05	89.08		1989-05-03	89.94	
1989-04-05	90.69		1989-03-01	91.50	

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1989-02-08	92.15		1989-01-05	93.16	
1988-12-05	94.20		1988-11-01	95.29	
1988-10-06	96.34		1988-09-01	98.03	
1988-08-02	99.74		1988-07-06	101.30	
1988-06-14	102.64		1988-05-16	104.93	
1988-04-26	106.67		1988-03-25	111.45	
1988-02-29	121.22		1988-01-29	117.78	
1987-12-29	127.55				
1987-11-25					
Note: The site was being pumped.					
1987-10-24	148.85				
Note: The site had been pumped recently.					
1986-12-09	127.02				
Note: The site had been pumped recently.					
1983-12-07	81.14				
1983-10-03	92.37				
Note: The site had been pumped recently.					
1983-03-23	90.23				
Note: The site had been pumped recently.					
1982-12-01	80.98		1982-04-12	76.07	
1981-06-04	122.48				
Note: The site was being pumped.					
1981-04-08	85.46		1981-03-10	69.80	
1981-02-18	70.77		1980-12-10	83.80	
1980-11-04	168.17				
Note: The site was being pumped.					
1980-10-07	163.09				
Note: The site was being pumped.					
1980-07-31	168.03				
Note: The site was being pumped.					
1980-05-14	153.37				
Note: The site was being pumped.					
1980-02-29	74.90		1980-01-31	81.72	
1979-12-26	97.29				
1979-11-20					
Note: The site was being pumped.					
1979-09-06	195.35				
Note: The site was being pumped.					
1979-08-09	173.94				
Note: The site was being pumped.					
1979-07-16	170.53				
Note: The site was being pumped.					
1979-05-10	80.82		1979-03-22	74.94	
1979-02-08	76.66		1979-01-09	79.54	
1978-10-03	168.48				
Note: The site was being pumped.					
1978-09-08	161.50				
Note: The site was being pumped.					
1978-08-03	170.30				
Note: The site was being pumped.					
1978-03-08	69.98		1978-02-17	75.61	
1978-01-26	77.53		1977-12-21	79.34	
1977-11-22	79.39				
1977-09-23	113.12				
Note: The site was being pumped.					

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1977-08-26	83.33				
1977-07-19	112.32				
Note: The site was being pumped.					
1977-06-15	80.50		1977-05-23	78.53	
1977-05-02	116.56				
Note: The site was being pumped.					
1977-03-31	79.43		1977-03-07	77.54	
1977-02-02	77.84		1976-12-28	78.51	
1976-12-02	78.87		1976-11-03	79.71	
1976-10-08	81.22		1976-09-13	84.84	
1976-08-13	121.49				
Note: The site was being pumped.					
1976-07-15	112.69				
Note: The site was being pumped.					
1976-06-16	125.76				
Note: The site was being pumped.					
1976-05-20	107.61				
Note: The site was being pumped.					
1976-04-22	75.67		1976-03-24	75.68	
1976-02-19	76.01		1976-01-13	77.19	
1975-12-11	77.75		1975-11-07	78.95	
1975-09-24	86.43		1975-08-25	83.92	
1975-07-25	115.88				
Note: The site was being pumped.					
1975-06-27	107.63				
Note: The site was being pumped.					
1975-05-23	76.64		1975-04-23	75.10	
1975-03-27	75.25		1975-02-27	75.72	
1975-01-29	75.33		1974-12-26	75.40	
1973-05-02	112.10				
Note: The site was being pumped.					
1973-03	101.00		1973-02	77.40	
1973-01	76.00		1972-12	77.00	
1972-11	78.60		1972-09	80.40	
1972-08	80.40				
1972-07	130.00				
Note: The site was being pumped.					
1972-06	106.00		1972-05	86.00	
1972-04	94.00		1972-03	94.00	
1972-02	75.60		1972-01	76.00	
1971-12	75.00		1971-11	77.91	
1971-10	96.00		1971-09	86.00	
1971-08	123.00				
Note: The site was being pumped.					
1971-07-20	130.00				
Note: The site was being pumped.					
1971-06-25	125.00				
1971-06-01	121.00				
Note: The site was being pumped.					
1971-05-03	145.00		1971-04-12	121.00	
1971-03-09	81.00		1971-02-03	74.60	
1971-01-05	75.20		1970-12-14	74.00	
1970-11-13	75.40		1970-10-06	56.00	
1970-09-15	78.00				
1970-08-06	118.00				
Note: The site was being pumped.					

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1970-07-10	115.00				
Note: The site was being pumped.					
1970-06-04	98.00				
Note: The site was being pumped.					
1970-05-01	53.00		1970-04-02	53.00	
1970-03-04	65.00		1970-02-02	72.00	
1970-01-02	63.00		1969-12-15	66.00	
1969-11-04	77.00				
1969-09-18	110.00				
Note: The site was being pumped.					
1969-09-02	56.00		1969-08-03	60.00	
1969-07-08	58.00		1969-05-31	56.00	
1969-05-04	66.00		1969-03-29	57.00	
1969-03-04	71.00		1969-02-11	53.00	
1969-01-07	58.00		1968-11-30	60.00	
1968-11-04	59.00		1968-10-13	61.00	
1968-09-05	66.00		1968-07-31	103.80	
1968-06-28	86.60		1968-06-03	62.00	
1968-05-06	97.00				
Note: The site was being pumped.					
1968-04-05	74.00		1968-03-01	77.00	
1968-01-29	26.50		1967-12-31	26.50	
1967-12-02	27.80		1967-11-01	77.60	
1967-03-31	90.00				

E28
SSE
1/4 - 1/2 Mile
Higher

CA WELLS **CADW60000035753**

Objectid:	35753
Latitude:	33.4567
Longitude:	-117.1048
Site code:	334567N1171048W001
State well numbe:	08S02W29A001S
Local well name:	’’
Well use id:	6
Well use descrip:	Unknown
County id:	33
County name:	Riverside
Basin code:	’9-5’
Basin desc:	Temecula Valley
Dwr region id:	80238
Dwr region:	Southern Region Office
Site id:	CADW60000035753

E29
SSE
1/4 - 1/2 Mile
Higher

FED USGS **USGS40000133734**

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-332724117061501		
Monloc name:	008S002W29A002S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	Not Reported	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	33.4566667
Longitude:	-117.1041667	Sourcemap scale:	Not Reported
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Global positioning system (GPS), uncorrected		
Horiz coord refsys:	NAD83	Vert measure val:	1089
Vert measure units:	feet	Vertacc measure val:	20
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	20060802	Welldepth:	Not Reported
Welldepth units:	Not Reported	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

E30
SSE **FED USGS** **USGS40000133733**
1/4 - 1/2 Mile
Higher

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-332724117061101		
Monloc name:	008S002W29A001S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	18070302	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	33.4566962
Longitude:	-117.103919	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	1090.00
Vert measure units:	feet	Vertacc measure val:	5
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	348
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 232

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
2005-03-02	97.41				
2005-02-04					
Note: The site was being pumped.					
2005-01-04	99.81				
2004-12-08					
Note: The site was being pumped.					
2004-11-03					
Note: The site was being pumped.					
2004-10-01	106.01				
Note: A nearby site that taps the same aquifer was being pumped.					
2004-09-01	106.94				
Note: A nearby site that taps the same aquifer was being pumped.					
2004-08-02	99.14				
Note: A nearby site that taps the same aquifer was being pumped.					
2004-07-01	105.70		2004-06-01	84.37	
2004-05-10	82.93		2004-04-13	78.43	
2004-03-08	79.24		2004-02-12	100.46	
2004-01-15	78.84		2003-12-05	76.42	
2003-11-03	77.41				
2003-10-03	81.60				
Note: The site had been pumped recently.					
2003-09-02	100.55				
Note: A nearby site that taps the same aquifer was being pumped.					
2003-08-01	101.60		2003-07-07	70.23	
2003-06-02	97.10				
Note: A nearby site that taps the same aquifer was being pumped.					
2003-05-01	68.33		2003-04-02	68.34	
2003-03-03	68.22		2003-02-04	68.72	
2003-01-10	68.55				
2002-12-02	69.19				
Note: A nearby site that taps the same aquifer was being pumped.					
2002-11-07	70.51				
Note: A nearby site that taps the same aquifer was being pumped.					
2002-10-03	90.68				
Note: A nearby site that taps the same aquifer was being pumped.					
2002-09-03	87.34				
Note: A nearby site that taps the same aquifer had been pumped recently.					
2002-08-01	59.60		2002-06-03	58.30	
2002-05-01	57.86		2002-04-02	57.51	
2002-03-05	57.25		2002-02-13	57.00	
2002-01-04	56.57		2001-12-05	56.30	
2001-11-01	55.96		2001-10-03	55.70	
2001-09-06	55.26		2001-08-02	54.82	
2001-07-03	54.63		2001-06-07	54.39	
2001-05-04	54.14		2001-04-06	54.10	
2001-03-13	54.12				
2001-02-01					
Note: The site was being pumped.					
2001-01-04					
Note: The site was being pumped.					
2000-12-06					
Note: The site was being pumped.					
2000-11-07					
Note: The site was being pumped.					
2000-10-04					
Note: The site was being pumped.					

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel
2000-09-06		
Note: The site was being pumped.		
2000-08-01	52.47	
2000-07-06		
Note: The site was being pumped.		
2000-06-05		
Note: The site was being pumped.		
2000-05-09	50.73	
2000-04-03	50.30	
Note: The site had been pumped recently.		
2000-03-13		
Note: The site was being pumped.		
2000-02-09	49.91	
Note: The site had been pumped recently.		
2000-01-06	49.49	
Note: The site had been pumped recently.		
1999-12-14		
Note: The site was being pumped.		
1999-11-12		
Note: The site was being pumped.		
1999-10-15		
Note: The site was being pumped.		
1999-09-08		
Note: The site was being pumped.		
1999-08-03		
Note: The site was being pumped.		
1999-07-01		
Note: The site was being pumped.		
1999-06-10		
Note: The site was being pumped.		
1999-05-03		
Note: The site was being pumped.		
1999-04-06	67.20	
Note: The site had been pumped recently.		
1999-03-02	45.22	
Note: The site had been pumped recently.		
1999-02-01		
Note: The site was being pumped.		
1999-01-05		
Note: The site was being pumped.		
1998-12-07	44.63	
Note: The site had been pumped recently.		
1998-11-23		
Note: The site was being pumped.		
1998-10-16		
Note: The site was being pumped.		
1998-09-10		
Note: The site was being pumped.		
1998-08-11		
Note: The site was being pumped.		
1998-07-02		
Note: The site was being pumped.		
1998-06-02	43.92	
Note: The site had been pumped recently.		
1998-05-06	45.06	
Note: The site had been pumped recently.		

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel
1998-05-01		
Note: The site was being pumped.		
1998-04-08	46.39	
1998-03-02	48.30	
Note: The site had been pumped recently.		
1998-01-23		
Note: The site was being pumped.		
1997-12-12		
Note: The site was being pumped.		
1997-11-07		
Note: The site was being pumped.		
1997-10-16	50.49	
1997-09-09	47.94	
Note: The site had been pumped recently.		
1997-08-15		
Note: The site was being pumped.		
1997-07-21		
Note: The site was being pumped.		
1997-06-02	44.50	
Note: The site had been pumped recently.		
1997-05-05	44.67	
Note: The site had been pumped recently.		
1997-04-09	45.66	
Note: The site had been pumped recently.		
1997-03-13		
Note: The site was being pumped.		
1997-02-19		
Note: The site was being pumped.		
1997-01-24	50.13	
1996-12-03		
Note: The site was being pumped.		
1996-11-04		
Note: The site was being pumped.		
1996-10-18		
Note: The site was being pumped.		
1996-09-03		
Note: The site was being pumped.		
1996-08-02		
Note: The site was being pumped.		
1996-07-10		
Note: The site was being pumped.		
1996-06-03		
Note: The site was being pumped.		
1996-05-01		
Note: The site was being pumped.		
1996-04-15		
Note: The site was being pumped.		
1996-03-18		
Note: The site was being pumped.		
1996-02-08	42.14	
1996-01-03		
Note: The site was being pumped.		
1995-12-04		
Note: The site was being pumped.		
1995-11-03		
Note: The site was being pumped.		

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1995-10-03					
Note: The site was being pumped.					
1995-09-05					
Note: The site was being pumped.					
1995-08-11					
Note: The site was being pumped.					
1995-07-21	36.11		1995-02-07	39.05	
1995-01-04	39.16		1994-12-06	39.55	
1994-11-01	41.51				
1994-10-03					
Note: The site was being pumped.					
1994-09-01					
Note: The site was being pumped.					
1994-08-17					
Note: The site was being pumped.					
1994-07-01					
Note: The site was being pumped.					
1994-06-06	36.91		1994-05-02	35.19	
1994-04-04	34.87		1994-03-01	35.16	
1994-02-01	35.66		1994-01-04	34.80	
1993-12-03	35.12		1993-10-12	35.87	
1993-09-23	36.23		1993-08-17	37.51	
1993-07-07	39.48		1993-05-26	42.38	
1993-04-27	44.86		1993-04-25	45.21	
1993-04-24	45.27		1993-04-23	45.32	
1993-04-13	46.42		1993-03-25	49.57	
1993-03-22	50.19		1993-02-25	55.52	
1993-01-29	59.54		1992-12-16	63.69	
1992-07-23	79.39				
Note: The site was being pumped.					
1992-04-10	60.94		1992-04-09	60.79	
1992-03-04	62.77		1992-02-12	63.75	
1992-01-10	63.31		1991-12-11	64.27	
1991-11-19	64.63				
Note: The site had been pumped recently.					
1991-10-11					
Note: The site was being pumped.					
1991-09-11	62.70		1991-08-07	62.58	
1991-07-03					
Note: The site was being pumped.					
1991-06-06					
Note: The site was being pumped.					
1991-05-08	61.23		1991-04-04	60.96	
1991-03-19	61.26		1991-02-22	61.42	
1991-02-08	61.65		1991-01-08	62.29	
1990-12-11	63.48				
Note: The site had been pumped recently.					
1990-11-08	65.90		1990-10-05	65.76	
1990-09-06	65.90				
1990-08-10	65.54				
Note: The site had been pumped recently.					
1990-07-12	63.70				
1990-06-06	64.04				
Note: The site had been pumped recently.					
1990-05-02	62.50		1990-04-04	62.17	

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel
1990-03-20	61.60	
1990-01-05	61.96	
1989-11-07	62.20	
1989-09-05	62.26	
1989-07-05	61.04	
Note: The site had been pumped recently.		
1989-06-05	59.77	
1989-04-05	58.64	
1989-02-09	59.14	
1988-12-05	61.40	
1988-10-06	63.60	
Note: The site had been pumped recently.		
1988-09-02		
Note: The site was being pumped.		
1988-08-02		
Note: The site was being pumped.		
1988-07-06	60.40	
1988-05-16	59.61	
1988-03-25	58.00	
Note: The site had been pumped recently.		
1988-02-29	57.65	
Note: The site had been pumped recently.		
1988-01-29	57.03	
1987-11-25	55.60	
Note: The site had been pumped recently.		
1987-10-24	55.77	
Note: The site had been pumped recently.		
1987-09-21	55.40	
Note: The site had been pumped recently.		
1987-06-24	51.82	
1986-12-09	47.37	
1985-12-05	51.34	
Note: The site had been pumped recently.		
1985-09-13	48.43	
Note: The site had been pumped recently.		
1985-06-04	41.03	
1984-12-03	46.94	
Note: The site was being pumped.		
1984-10-01	45.05	
Note: The site was being pumped.		
1984-06-26	43.37	
Note: The site was being pumped.		
1984-03-14	39.01	
Note: The site was being pumped.		
1983-12-07	30.66	
1983-10-03	30.20	
Note: The site had been pumped recently.		
1982-12-01		
Note: The measurement was discontinued.		
1981-07-10	28.32	
1981-04-08	26.48	
1981-02-18	25.96	
1980-12-10	25.14	
1980-10-07	23.99	
1980-07-31	22.17	

Date	Feet below Surface	Feet to Sealevel
1990-02-15	61.71	
1989-12-06	62.23	
1989-10-17	62.88	
1989-08-02	61.60	
1989-05-03	58.38	
1989-03-01	58.90	
1989-01-05	59.80	
1988-11-01	63.25	
1988-06-14	60.20	
1988-04-26	58.97	
1987-12-29	56.66	
1987-03-18	47.74	
1985-03-14	40.28	
1981-06-04	27.43	
1981-03-10	26.20	
1981-01-27	25.69	
1980-11-04	24.52	
1980-09-02	22.96	
1980-02-29	21.21	

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1980-02-05	28.62				

F31
NW
1/4 - 1/2 Mile
Lower

FED USGS **USGS40000133818**

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-332752117063201		
Monloc name:	008S002W20L001S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	18070302	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	33.4644737
Longitude:	-117.1097524	Sourcemap scale:	Not Reported
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	1052.00
Vert measure units:	feet	Vertacc measure val:	20
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19300101	Welldepth:	492
Welldepth units:	ft	Wellholedepth:	524
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 178

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1973-05-09	38.87		1971-07-28	44.10	
1971-06-01	39.50		1971-04-30	40.90	
1971-04-02	36.50		1971-03-05	35.30	
1971-01-31	33.80		1971-01-05	35.40	
1970-12-10	33.60		1970-11-13	35.40	
1970-10-06	37.50		1970-09-17	38.50	
1970-08-06	46.10		1970-07-09	47.10	
1970-06-04	37.70		1970-05-01	35.10	
1970-04-02	34.90		1970-03-06	35.30	
1970-02-02	34.40		1969-12-31	34.70	
1969-11-03	34.50		1969-09-27	35.70	
1969-08-02	37.60		1969-07-08	38.50	
1969-06-29	34.50		1969-05-31	35.80	
1969-03-03	36.50		1969-02-11	38.40	
1969-01-04	39.20		1968-11-30	40.30	
1968-11-04	41.00		1968-10-01	43.40	
1968-09-06	45.50		1968-06-28	45.60	
1968-06-03	42.80		1968-05-06	42.00	
1968-04-05	41.09		1968-03-01	41.20	
1968-01-29	31.60		1967-12-31	37.70	

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel
1967-12-20	37.80	
1967-09-30	40.00	
1967-08-01	38.50	
1967-05-24	38.70	
1967-04-04	41.00	
1967-01-28	39.20	
1966-10-01	41.00	
1966-01-01	39.62	
1965-04-01	41.13	
1964-10-01	42.14	
1964-04-01	40.21	
1963-10-01	40.60	
1963-05-01	39.11	
1962-10-01	40.65	
1962-04-01	37.73	
1961-10-01	41.40	
1961-04-01	38.50	
1960-05-01	37.74	
1958-10-01	39.70	
1953-11-01	39.80	
1944-12-21	31.00	
1944-09-28	31.12	
1944-06-22	31.30	
1944-05-31	31.04	
1944-03-31	30.56	
1944-01-31	31.41	
1943-11-30	30.75	
1943-09-30	32.22	
1943-07-26	36.36	
1943-06-01	33.10	
1943-04-30	30.40	
1943-03-29	30.32	
1942-12-26	31.30	
1942-10-31	31.40	
1942-08-31	32.58	
1942-06-30	30.92	
1942-05-30	31.42	
1942-03-31	30.45	
1942-01-28	30.39	
1941-11-29	30.62	
1941-10-31	30.72	
1941-08-30	31.40	
1941-06-28	30.72	
1941-04-28	33.37	
1940-09-30	31.89	
1940-07-31	34.80	
1940-05-29	32.06	
1940-01-05	31.95	
1937-09-17	40.64	
1937-06-28	40.08	
1937-04-06	34.41	
1936-12-04	36.54	
1936-10-01	41.65	
1936-03-12	36.44	
1935-12-11	37.18	
1967-10-01	39.00	
1967-09-02	39.80	
1967-07-04	38.60	
1967-04-27	39.10	
1967-03-09	40.00	
1966-11-01	40.60	
1966-03-01	40.10	
1965-10-01	41.60	
1965-01-01	40.32	
1964-07-01	40.67	
1964-01-01	41.30	
1963-07-01	39.71	
1963-01-01	39.35	
1962-07-01	39.46	
1962-01-01	38.34	
1961-07-01	40.05	
1961-01-01	37.48	
1959-06-01	39.13	
1954-04-01	38.30	
1951-01-01	38.60	
1944-10-26	30.79	
1944-07-29	31.00	
1944-06-01	31.30	
1944-04-28	30.77	
1944-03-01	30.01	
1943-12-30	30.42	
1943-10-30	30.98	
1943-08-31	31.95	
1943-06-30	33.14	
1943-05-31	30.52	
1943-04-26	30.37	
1943-01-21	31.15	
1942-11-30	31.44	
1942-09-30	32.45	
1942-07-21	33.21	
1942-06-01	30.90	
1942-04-25	30.49	
1942-02-28	30.37	
1941-12-25	30.48	
1941-11-27	30.59	
1941-09-30	31.29	
1941-07-17	31.21	
1941-06-01	30.60	
1941-03-28	30.59	
1940-08-31	32.62	
1940-06-29	33.26	
1940-03-22	31.27	
1938-11-26	34.80	
1937-08-18	39.98	
1937-06-01	38.41	
1937-03-27	35.07	
1936-10-28	39.01	
1936-04-21	36.66	
1936-01-09	36.72	
1935-10-29	38.47	

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1935-04-25	36.40		1935-01-20	37.04	
1934-11-06	37.46		1934-09-27	41.42	
1934-08-10	40.14		1934-05-07	37.10	
1934-03-15	36.75		1934-01-22	37.00	
1933-12-02	37.56		1933-10-11	39.33	
1933-08-14	39.84		1932-12-28	36.38	
1932-11-11	37.85		1932-10-15	37.73	
1932-08-11	39.45		1932-05-08	37.13	
1932-02-24	35.96		1931-10-20	41.94	
1931-09-22	40.16		1931-09-16	37.78	
1931-05-15	39.15		1931-04-30	40.55	
1931-03-01	38.08		1931-02-19	37.43	
1931-01-19	37.74		1930-12-16	37.84	
1930-11-20	38.29		1930-10-24	38.30	

G32
South
1/4 - 1/2 Mile
Higher

CA WELLS **CADW60000035759**

Objectid:	35759
Latitude:	33.4553
Longitude:	-117.1059
Site code:	334553N1171059W001
State well numbe:	08S02W29G001S
Local well name:	''
Well use id:	6
Well use descrip:	Unknown
County id:	33
County name:	Riverside
Basin code:	'9-5'
Basin desc:	Temecula Valley
Dwr region id:	80238
Dwr region:	Southern Region Office
Site id:	CADW60000035759

G33
SSE
1/4 - 1/2 Mile
Higher

FED USGS **USGS40000133720**

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-332719117061501		
Monloc name:	008S002W29G001S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	18070302	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	33.4553074
Longitude:	-117.1050301	Sourcemap scale:	24000

Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	1091.00
Vert measure units:	feet	Vertacc measure val:	.1
Vert accmeasure units:	feet		
Vertcollection method:	Level or other surveying method		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	159.1
Welldepth units:	ft	Wellholedepth:	176
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 485

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
2005-03-02					
Note: The site was dry (no water level recorded).					
2005-02-04					
Note: The site was dry (no water level recorded).					
2005-01-04					
Note: The site was dry (no water level recorded).					
2004-12-08					
Note: The site was dry (no water level recorded).					
2004-11-03					
Note: The site was dry (no water level recorded).					
2004-10-01	84.22		2004-09-01	82.65	
2004-08-02	80.07		2004-07-01	79.77	
2004-05-10	77.32		2004-04-13	74.81	
2004-03-08	75.45		2004-02-12	75.82	
2004-01-15	74.46		2003-12-15	71.87	
2003-12-05	72.35		2003-11-03	73.65	
2003-10-03	75.11		2003-09-02	73.11	
2003-08-01	72.04		2003-07-07	66.36	
2003-06-02	67.81		2003-05-01	64.37	
2003-04-02	64.47		2003-03-03	64.89	
2003-02-04	64.98		2003-01-10	65.13	
2002-12-02	65.59		2002-11-01	66.63	
2002-10-03	68.25				
Note: A nearby site that taps the same aquifer was being pumped.					
2002-09-03	64.23		2002-08-01	55.72	
2002-07-02	56.57				
Note: A nearby site that taps the same aquifer had been pumped recently.					
2002-06-21	54.55		2002-06-21	54.48	
2002-06-10	54.26		2002-06-03	54.31	
2002-05-01	53.83		2002-04-02	53.46	
2002-03-05	53.22		2002-02-13	52.92	
2002-01-04	52.44		2001-12-05	52.13	
2001-11-01	51.84		2001-10-03	51.54	
2001-09-06	51.14		2001-08-02	50.60	
2001-07-03	50.40		2001-06-07	50.11	
2001-05-04	49.86		2001-04-06	49.72	
2001-03-13	49.81		2001-03-04	49.86	
2001-02-01	49.69		2001-01-04	49.36	
2000-12-06	49.15		2000-11-07	49.04	
2000-10-04	48.41		2000-09-06	48.18	
2000-08-01	48.41		2000-07-06	46.92	

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
2000-06-05	46.84		2000-05-09	46.76	
2000-04-03	46.08		2000-03-13	45.93	
2000-02-09	45.86		2000-01-06	45.24	
1999-12-14	45.06		1999-11-12	46.58	
1999-09-08	42.79		1999-08-03	41.85	
1999-07-01	41.50		1999-06-16	41.72	
1999-06-10	40.12		1999-05-03	39.95	
1999-04-06	39.77		1999-03-02	40.05	
1999-02-01	39.53		1999-01-14	39.14	
1999-01-05	39.42		1998-12-14	39.58	
1998-12-07	39.97		1998-11-23	40.40	
1998-10-16	38.58		1998-09-10	37.23	
1998-08-11	37.77		1998-07-02	38.24	
1998-06-02	39.16				
1998-05-01	40.65				
Note: A nearby site that taps the same aquifer was being pumped.					
1998-04-08	41.62		1998-03-25	42.12	
1998-03-02	43.63		1998-01-23	44.71	
1997-12-17	45.44		1997-12-16	45.37	
1997-12-12	45.77		1997-11-07	46.38	
1997-10-16	45.37		1997-09-09	43.54	
1997-08-15	43.96		1997-07-21	44.15	
1997-06-02	40.18		1997-05-05	40.42	
1997-04-09	41.14		1997-03-13	41.73	
1997-02-19	40.99		1997-01-24	42.20	
1996-12-03	42.27		1996-11-04	41.37	
1996-10-18	41.60		1996-09-03	41.51	
1996-08-02	40.05		1996-07-10	40.08	
1996-06-03	39.23		1996-05-01	37.72	
1996-04-15	37.24		1996-03-18	35.95	
1996-02-08	36.29		1996-01-03	35.71	
1995-12-04	34.95		1995-11-03	35.75	
1995-10-03	34.42		1995-09-05	34.18	
1995-08-11	33.01		1995-07-21	32.15	
1995-02-07	35.29		1995-01-04	36.08	
1994-12-06	36.32		1994-11-01	37.77	
1994-10-03	37.47				
1994-09-01	36.88				
Note: A nearby site that taps the same aquifer was being pumped.					
1994-08-17	36.44		1994-07-01	33.88	
1994-06-06	33.09		1994-05-02	31.83	
1994-04-04	31.83		1994-03-01	32.17	
1994-02-01	32.79		1994-01-04	32.01	
1993-12-03	32.25		1993-10-12	32.85	
1993-09-23	33.13		1993-08-17	34.34	
1993-07-15	35.79		1993-07-13	35.88	
1993-07-07	36.12		1993-05-26	38.78	
1993-04-27	41.18		1993-03-25	45.87	
1993-02-25	51.54		1993-01-29	55.98	
1992-12-16	58.94		1992-05-07	57.77	
1992-04-09	57.93		1992-03-04	58.98	
1992-02-12	59.57		1992-01-10	59.34	
1991-12-11	59.65		1991-11-19	59.71	
1991-10-11	58.44		1991-09-11	58.64	
1991-08-07	58.57		1991-07-03	58.50	

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1991-06-06	58.72		1991-05-08	58.19	
1991-04-04	58.42		1991-03-19	58.77	
1991-02-08	59.24		1991-01-08	59.77	
1990-12-11	60.61		1990-11-08	61.44	
1990-09-06	60.99		1990-08-10	60.56	
1990-07-12	59.83		1990-06-06	59.72	
1990-05-02	59.05		1990-04-04	58.79	
1990-03-20	58.49		1990-03-07	58.48	
1990-02-15	58.64		1990-01-05	58.79	
1989-12-06	58.86		1989-11-07	58.51	
1989-10-17	59.00				
1989-09-05	58.45				
Note: A nearby site that taps the same aquifer had been pumped recently.					
1989-08-02	57.86				
Note: A nearby site that taps the same aquifer had been pumped recently.					
1989-07-05	57.31				
Note: A nearby site that taps the same aquifer had been pumped recently.					
1989-06-05	56.62				
Note: A nearby site that taps the same aquifer had been pumped recently.					
1989-05-03	55.76				
Note: A nearby site that taps the same aquifer had been pumped recently.					
1989-04-05	55.98				
Note: A nearby site that taps the same aquifer had been pumped recently.					
1989-03-01	56.24				
Note: A nearby site that taps the same aquifer had been pumped recently.					
1989-02-08	56.47		1989-01-05	57.06	
1988-12-05	58.07		1988-11-01	58.63	
1988-10-06	58.55				
1988-09-01	57.64				
Note: A nearby site that taps the same aquifer was being pumped.					
1988-08-02	57.03				
Note: A nearby site that taps the same aquifer was being pumped.					
1988-07-06	56.34		1988-06-14	56.06	
1988-05-16	55.54		1988-04-26	55.01	
1988-03-25	54.31		1988-02-29	53.99	
1988-02-01	53.57		1988-01-29	53.51	
1988-01-01	53.14		1987-12-29	53.11	
1987-12-01	52.57		1987-11-25	52.42	
1987-11-01	52.45				
1987-10-24	52.20				
Note: A nearby site that taps the same aquifer had been pumped recently.					
1987-09-21	51.67				
Note: A nearby site that taps the same aquifer had been pumped recently.					
1987-06-24	48.29		1987-03-18	44.92	
1986-12-09	44.38				
1985-12-05	47.89				
Note: A nearby site that taps the same aquifer had been pumped recently.					
1985-09-13	45.18				
Note: A nearby site that taps the same aquifer had been pumped recently.					
1985-06-04	38.66		1985-03-14	37.83	
1984-12-03	37.74				
Note: A nearby site that taps the same aquifer was being pumped.					
1984-10-01	36.13				
Note: A nearby site that taps the same aquifer was being pumped.					
1984-06-26	32.83				
Note: A nearby site that taps the same aquifer was being pumped.					

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1984-03-14	29.68				
Note: A nearby site that taps the same aquifer was being pumped.					
1983-12-07	28.03		1983-10-03	27.18	
1983-06-27	26.07		1983-03-23	29.74	
1982-12-01	32.26		1982-08-26	31.42	
1982-06-30	30.10		1982-04-12	29.87	
1982-02-26	31.54		1981-11-24	30.28	
1981-10-14	29.17		1981-09-15	28.30	
1981-08-04	27.02		1981-07-10	26.57	
1981-06-04	25.66		1981-04-08	24.76	
1981-03-10	24.33		1981-02-18	24.13	
1981-01-27	23.83		1980-12-10	23.12	
1980-11-04	22.66		1980-10-07	22.03	
1980-09-02	18.77		1980-07-31	20.04	
1980-06-30	19.08		1980-05-14	18.32	
1980-04-08	17.70		1980-02-29	18.44	
1980-01-31	24.71		1979-12-26	27.08	
1979-11-20	26.60		1979-10-15	25.92	
1979-09-06	24.92		1979-08-09	24.33	
1979-07-16	23.88		1979-07-12	23.76	
1979-06-12	23.83		1979-05-09	23.75	
1979-04-11	24.97		1979-03-21	26.62	
1979-03-13	26.99		1979-02-08	28.47	
1979-01-09	29.74		1978-12-12	29.92	
1978-11-30	29.87		1978-11-02	29.84	
1978-10-03	30.03		1978-09-08	30.04	
1978-09-01	30.26		1978-08-04	30.79	
1978-07-20	31.23		1978-03-16	44.97	
1977-12-21	51.46		1977-11-22	51.36	
1977-10-20	51.26		1977-09-23	51.27	
1977-08-25	51.00		1977-08-15	50.99	
1977-07-19	50.93		1977-07-14	50.81	
1977-06-15	50.72		1977-05-23	50.67	
1977-05-02	50.72		1977-03-31	50.50	
1977-03-07	50.45		1977-02-03	50.46	
1977-01-13	50.38		1976-12-28	50.35	
1976-12-02	50.24		1976-11-03	50.10	
1976-10-08	49.99		1976-09-13	49.78	
1976-08-13	49.75		1976-07-15	49.47	
1976-06-16	49.40		1976-05-20	49.37	
1976-04-22	49.09		1976-03-24	48.96	
1976-02-19	48.87		1976-02-13	48.86	
1976-01-13	48.69		1975-12-11	48.55	
1975-11-24	48.43		1975-11-07	48.35	
1975-10-24	48.24		1975-09-24	47.99	
1975-08-25	47.71		1975-07-25	47.55	
1975-06-27	47.35		1975-06-02	47.16	
1975-05-23	47.01		1975-04-23	46.89	
1975-03-27	46.67		1975-02-27	46.56	
1975-02-14	46.43		1975-01-29	46.38	
1974-12-26	46.17		1974-11-11	45.93	
1974-10-03	45.64		1973-03-29	43.20	
1972-09-19	42.50		1972-08-17	42.13	
1971-10-29	39.18		1968-03-19	33.75	
1967-10-10	33.56		1967-09-13	33.57	

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel
1967-09-01	34.00	
1966-09-27	43.82	
1966-02-24	43.76	
1965-12-27	45.77	
1965-08-19	46.02	
1965-05-04	45.49	
1965-02-17	46.41	
1964-12-17	46.24	
1964-08-31	46.05	
1964-07-02	45.62	
1964-04-29	45.59	
1964-02-28	45.46	
1963-12-23	44.45	
1963-10-24	44.77	
1963-08-27	44.79	
1963-07-03	44.19	
1963-05-02	43.82	
1963-01-07	43.48	
1962-10-24	42.90	
1962-08-22	42.11	
1962-06-26	41.27	
1962-04-05	40.64	
1962-01-25	41.26	
1961-09-27	41.59	
1961-07-11	41.56	
1961-04-20	41.79	
1961-02-08	40.00	
1960-12-08	40.15	
1960-09-13	39.20	
1960-07-15	38.32	
1960-06-16	37.90	
1960-04-15	36.90	
1960-01-16	36.13	
1959-11-20	34.82	
1959-10-22	34.60	
1958-10-29	34.09	
1954-04-23	40.20	
1954-01-07	41.70	
1953-10-08	41.60	
1953-08-06	37.90	
1953-05-20	37.20	
1953-02-27	37.20	
1952-10-21	38.00	
1952-07-30	40.20	
1952-06-10	43.70	
1952-04-22	47.00	
1952-02-04	49.50	
1951-11-05	48.80	
1951-09-04	48.45	
1951-07-30	52.00	
1951-06-13	49.00	
1951-04-04	48.60	
1951-03-07	48.50	
1940-03-07	28.83	
1937-02-04	41.78	
1967-03-28	37.59	
1966-03-24	43.44	
1966-01-24	44.64	
1965-10-15	46.69	
1965-07-07	45.57	
1965-03-30	46.35	
1965-01-14	46.29	
1964-10-15	46.33	
1964-07-30	45.73	
1964-05-29	45.57	
1964-03-28	45.65	
1964-01-29	45.54	
1963-12-02	44.63	
1963-09-26	44.89	
1963-07-30	44.54	
1963-05-28	44.00	
1963-02-12	43.80	
1962-12-04	43.22	
1962-09-24	42.56	
1962-07-17	41.65	
1962-05-23	40.98	
1962-03-06	40.63	
1961-11-09	41.23	
1961-08-16	41.71	
1961-05-29	41.91	
1961-03-07	41.45	
1961-01-17	40.69	
1960-10-25	39.67	
1960-08-19	38.83	
1960-06-30	38.06	
1960-05-16	37.37	
1960-03-17	36.54	
1960-01-15	35.73	
1959-10-28	34.57	
1959-09-29	34.58	
1956-09-11	45.52	
1954-04-02	40.80	
1953-11-20	39.90	
1953-09-03	38.50	
1953-07-03	37.50	
1953-03-27	37.10	
1953-01-16	37.40	
1952-08-25	39.40	
1952-07-08	41.10	
1952-05-13	44.20	
1952-03-01	48.80	
1952-01-02	46.30	
1951-10-01	49.60	
1951-09-03	55.40	
1951-07-03	49.10	
1951-05-07	49.20	
1951-03-28	48.61	
1951-01-29	48.30	
1940-02-20	26.83	
1936-12-14	44.12	

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel
1936-10-01	43.66	
1936-06-19	42.88	
1936-03-17	43.04	
1935-12-14	42.94	
1934-09-27	41.02	
1928-08-23	32.79	
1927-08-16	28.60	
1927-06-22	28.61	
1927-04-13	32.02	
1927-02-19	39.00	
1926-12-22	40.40	
1926-10-08	39.80	
1926-08-06	39.24	
1926-06-10	40.47	
1926-04-22	40.92	
1926-02-27	41.99	
1926-01-09	41.70	
1925-11-14	41.17	
1925-09-03	41.28	
1925-07-02	39.68	
1925-05-03	38.56	
1925-03-13	38.42	
1925-01-27	37.87	
1936-08-12	43.36	
1936-04-21	42.80	
1936-01-09	43.12	
1935-09-13	41.64	
1934-09-12	40.91	
1927-09-26	28.60	
1927-07-12	28.54	
1927-05-26	29.68	
1927-03-02	42.25	
1927-01-26	40.60	
1926-11-01	40.00	
1926-09-09	39.79	
1926-07-08	39.54	
1926-05-07	40.32	
1926-03-25	42.20	
1926-02-05	41.87	
1925-12-12	41.42	
1925-10-01	41.22	
1925-08-07	40.80	
1925-06-09	39.08	
1925-04-10	38.70	
1925-02-07	38.00	

34
WNW
1/4 - 1/2 Mile
Lower

CA WELLS **8633**

Water System Information:

Prime Station Code:	08S/02W-20P01 S	User ID:	WAT
FRDS Number:	3310038027	County:	Riverside
District Number:	14	Station Type:	WELL/AMBNT/MUN/INTAKE
Water Type:	Well/Groundwater	Well Status:	Active Raw
Source Lat/Long:	332742.0 1170642.0	Precision:	100 Feet (one Second)
Source Name:	WELL 122		
System Number:	3310038		
System Name:	Rancho California Water District		
Organization That Operates System:			
	P.O. Box 9017 Temecula, CA 92589		
Pop Served:	68900	Connections:	20396
Area Served:	RANCHO CALIFORNIA		
Sample Collected:	10-MAR-11	Findings:	9.6 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	25-MAY-11	Findings:	670. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	04-AUG-11	Findings:	680. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		

Sample Collected:	10-JAN-12	Findings:	680. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	06-MAR-12	Findings:	9.1 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	03-APR-12	Findings:	730. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	10-JUL-12	Findings:	680. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	07-AUG-12	Findings:	1100. US
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	07-AUG-12	Findings:	7.5
Chemical:	PH, LABORATORY		
Sample Collected:	07-AUG-12	Findings:	210. MG/L
Chemical:	ALKALINITY (TOTAL) AS CACO3		
Sample Collected:	07-AUG-12	Findings:	260. MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	07-AUG-12	Findings:	350. MG/L
Chemical:	HARDNESS (TOTAL) AS CACO3		
Sample Collected:	07-AUG-12	Findings:	110. MG/L
Chemical:	CALCIUM		
Sample Collected:	07-AUG-12	Findings:	20. MG/L
Chemical:	MAGNESIUM		
Sample Collected:	07-AUG-12	Findings:	87. MG/L
Chemical:	SODIUM		
Sample Collected:	07-AUG-12	Findings:	1.9 MG/L
Chemical:	POTASSIUM		
Sample Collected:	07-AUG-12	Findings:	84. MG/L
Chemical:	CHLORIDE		
Sample Collected:	07-AUG-12	Findings:	0.2 MG/L
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)		
Sample Collected:	07-AUG-12	Findings:	110. UG/L
Chemical:	BORON		
Sample Collected:	07-AUG-12	Findings:	710. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	07-AUG-12	Findings:	8. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	04-OCT-12	Findings:	680. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	16-JAN-13	Findings:	8.23 PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	16-JAN-13	Findings:	1.68 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	16-JAN-13	Findings:	7.41 PCI/L
Chemical:	URANIUM (PCI/L)		

Sample Collected:	16-JAN-13	Findings:	1.06 PCI/L
Chemical:	URANIUM COUNTING ERROR		
Sample Collected:	17-JAN-13	Findings:	720. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	07-MAR-13	Findings:	8.4 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	15-MAR-13	Findings:	2.6 UG/L
Chemical:	CHROMIUM, HEXAVALENT		
Sample Collected:	17-APR-13	Findings:	2.4 UG/L
Chemical:	CHROMIUM, HEXAVALENT		
Sample Collected:	17-APR-13	Findings:	700. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	03-JUL-13	Findings:	2.8 UG/L
Chemical:	CHROMIUM, HEXAVALENT		
Sample Collected:	03-JUL-13	Findings:	740. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	03-OCT-13	Findings:	2.8 UG/L
Chemical:	CHROMIUM, HEXAVALENT		
Sample Collected:	03-OCT-13	Findings:	700. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	28-JAN-14	Findings:	2.6 UG/L
Chemical:	CHROMIUM, HEXAVALENT		
Sample Collected:	28-JAN-14	Findings:	730. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	13-MAR-14	Findings:	. 9.5 MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	16-APR-14	Findings:	. 2.5 UG/L
Chemical:	CHROMIUM, HEXAVALENT		
Sample Collected:	16-APR-14	Findings:	. 680. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	10-JUL-14	Findings:	. 2.4 UG/L
Chemical:	CHROMIUM, HEXAVALENT		
Sample Collected:	10-JUL-14	Findings:	. 620. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	02-OCT-14	Findings:	. 3. UG/L
Chemical:	CHROMIUM, HEXAVALENT		
Sample Collected:	02-OCT-14	Findings:	. 730. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	13-JAN-15	Findings:	. 2.4 UG/L
Chemical:	CHROMIUM, HEXAVALENT		
Sample Collected:	13-JAN-15	Findings:	. 710. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	14-APR-15	Findings:	. 2.3 UG/L
Chemical:	CHROMIUM, HEXAVALENT		

Sample Collected: 14-APR-15 Findings: . 770. MG/L
Chemical: TOTAL DISSOLVED SOLIDS

F35
NW
1/4 - 1/2 Mile
Lower

CA WELLS **CADW60000021379**

Objectid:	21379
Latitude:	33.4645
Longitude:	-117.1107
Site code:	334645N1171107W001
State well numbe:	08S02W20L001S
Local well name:	''
Well use id:	6
Well use descrip:	Unknown
County id:	33
County name:	Riverside
Basin code:	'9-5'
Basin desc:	Temecula Valley
Dwr region id:	80238
Dwr region:	Southern Region Office
Site id:	CADW60000021379

36
NNW
1/4 - 1/2 Mile
Lower

FED USGS **USGS40000133832**

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-332757117062601		
Monloc name:	008S002W20K001S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	18070302	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	33.4658626
Longitude:	-117.1080857	Sourcemap scale:	Not Reported
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	1056.00
Vert measure units:	feet	Vertacc measure val:	.1
Vert accmeasure units:	feet		
Vertcollection method:	Level or other surveying method		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	76
Welldepth units:	ft	Wellholedepth:	76
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

37
East | **CA WELLS** | **8634**
1/4 - 1/2 Mile
Higher

Water System Information:

Prime Station Code:	08S/02W-20R01 S	User ID:	WAT
FRDS Number:	3310038059	County:	Riverside
District Number:	14	Station Type:	WELL/AMBNT/MUN/INTAKE
Water Type:	Well/Groundwater	Well Status:	Active Raw
Source Lat/Long:	332740.0 1170553.0	Precision:	100 Feet (one Second)
Source Name:	WELL 211 (011)		
System Number:	3310038		
System Name:	Rancho California Water District		
Organization That Operates System:			
	P.O. Box 9017		
	Temecula, CA 92589		
Pop Served:	68900	Connections:	20396
Area Served:	RANCHO CALIFORNIA		
Sample Collected:	18-JAN-11	Findings:	550. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	18-JAN-11	Findings:	15. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	06-APR-11	Findings:	560. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	06-APR-11	Findings:	16. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	07-JUL-11	Findings:	520. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	07-JUL-11	Findings:	13. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	01-SEP-11	Findings:	840. US
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	01-SEP-11	Findings:	7.8
Chemical:	PH, LABORATORY		
Sample Collected:	01-SEP-11	Findings:	210. MG/L
Chemical:	ALKALINITY (TOTAL) AS CACO3		
Sample Collected:	01-SEP-11	Findings:	260. MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	01-SEP-11	Findings:	280. MG/L
Chemical:	HARDNESS (TOTAL) AS CACO3		
Sample Collected:	01-SEP-11	Findings:	86. MG/L
Chemical:	CALCIUM		
Sample Collected:	01-SEP-11	Findings:	16. MG/L
Chemical:	MAGNESIUM		

Sample Collected:	01-SEP-11	Findings:	56. MG/L
Chemical:	SODIUM		
Sample Collected:	01-SEP-11	Findings:	1.2 MG/L
Chemical:	POTASSIUM		
Sample Collected:	01-SEP-11	Findings:	66. MG/L
Chemical:	CHLORIDE		
Sample Collected:	01-SEP-11	Findings:	0.2 MG/L
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)		
Sample Collected:	01-SEP-11	Findings:	110. UG/L
Chemical:	BARIUM		
Sample Collected:	01-SEP-11	Findings:	27. UG/L
Chemical:	MANGANESE		
Sample Collected:	01-SEP-11	Findings:	460. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	01-SEP-11	Findings:	13. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	20-SEP-11	Findings:	3.1 UG/L
Chemical:	CHROMIUM, HEXAVALENT		
Sample Collected:	12-OCT-11	Findings:	420. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	12-OCT-11	Findings:	14. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	10-JAN-12	Findings:	520. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	10-JAN-12	Findings:	14. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	18-APR-12	Findings:	510. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	18-APR-12	Findings:	14. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	10-JUL-12	Findings:	520. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	10-JUL-12	Findings:	13. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	02-OCT-12	Findings:	520. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	02-OCT-12	Findings:	13. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	10-JAN-13	Findings:	520. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	10-JAN-13	Findings:	13. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	17-APR-13	Findings:	2.3 UG/L
Chemical:	CHROMIUM, HEXAVALENT		

Sample Collected:	17-APR-13	Findings:	510. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	17-APR-13	Findings:	12. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	03-JUL-13	Findings:	2.5 UG/L
Chemical:	CHROMIUM, HEXAVALENT		
Sample Collected:	03-JUL-13	Findings:	540. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	03-JUL-13	Findings:	14. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	03-OCT-13	Findings:	2.7 UG/L
Chemical:	CHROMIUM, HEXAVALENT		
Sample Collected:	03-OCT-13	Findings:	550. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	03-OCT-13	Findings:	14. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	28-JAN-14	Findings:	2.3 UG/L
Chemical:	CHROMIUM, HEXAVALENT		
Sample Collected:	28-JAN-14	Findings:	560. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	28-JAN-14	Findings:	15. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	16-APR-14	Findings:	. 2.7 UG/L
Chemical:	CHROMIUM, HEXAVALENT		
Sample Collected:	16-APR-14	Findings:	. 430. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	16-APR-14	Findings:	. 11. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	10-JUL-14	Findings:	. 2.4 UG/L
Chemical:	CHROMIUM, HEXAVALENT		
Sample Collected:	10-JUL-14	Findings:	. 590. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	10-JUL-14	Findings:	. 14. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	04-SEP-14	Findings:	. 840. US
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	04-SEP-14	Findings:	. 7.8
Chemical:	PH, LABORATORY		
Sample Collected:	04-SEP-14	Findings:	. 210. MG/L
Chemical:	ALKALINITY (TOTAL) AS CACO3		
Sample Collected:	04-SEP-14	Findings:	. 260. MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	04-SEP-14	Findings:	. 300. MG/L
Chemical:	HARDNESS (TOTAL) AS CACO3		

Sample Collected:	04-SEP-14	Findings:	. 92. MG/L
Chemical:	CALCIUM		
Sample Collected:	04-SEP-14	Findings:	. 17. MG/L
Chemical:	MAGNESIUM		
Sample Collected:	04-SEP-14	Findings:	. 60. MG/L
Chemical:	SODIUM		
Sample Collected:	04-SEP-14	Findings:	. 1.3 MG/L
Chemical:	POTASSIUM		
Sample Collected:	04-SEP-14	Findings:	. 67. MG/L
Chemical:	CHLORIDE		
Sample Collected:	04-SEP-14	Findings:	. 130. UG/L
Chemical:	BARIUM		
Sample Collected:	04-SEP-14	Findings:	. 30. UG/L
Chemical:	MANGANESE		
Sample Collected:	04-SEP-14	Findings:	. 590. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	04-SEP-14	Findings:	. 13. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	02-OCT-14	Findings:	. 2.7 UG/L
Chemical:	CHROMIUM, HEXAVALENT		
Sample Collected:	02-OCT-14	Findings:	. 630. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	02-OCT-14	Findings:	. 13. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	13-JAN-15	Findings:	. 3. UG/L
Chemical:	CHROMIUM, HEXAVALENT		
Sample Collected:	13-JAN-15	Findings:	. 370. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	13-JAN-15	Findings:	. 12. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	14-APR-15	Findings:	. 1.9 UG/L
Chemical:	CHROMIUM, HEXAVALENT		
Sample Collected:	14-APR-15	Findings:	. 650. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	14-APR-15	Findings:	. 12. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	04-JUN-15	Findings:	. 4.76 PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	04-JUN-15	Findings:	. 1.73 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	04-JUN-15	Findings:	. 1.33 PCI/L
Chemical:	RADIUM 228 COUNTING ERROR		
Sample Collected:	04-JUN-15	Findings:	. 1.18 PCI/L
Chemical:	URANIUM (PCI/L)		

Sample Collected:	04-JUN-15	Findings:	. 0.889 PCI/L
Chemical:	URANIUM COUNTING ERROR		
Sample Collected:	04-JUN-15	Findings:	. 1.37 PCI/L
Chemical:	GROSS ALPHA MDA95		
Sample Collected:	04-JUN-15	Findings:	. 0.3 PCI/L
Chemical:	URANIUM MDA95		
Sample Collected:	04-JUN-15	Findings:	. 0.506 PCI/L
Chemical:	RADIUM 228 MDA95		
Sample Collected:	04-JUN-15	Findings:	. 0.211 PCI/L
Chemical:	RA-226 OR TOTAL RA BY 903.0 C.E.		
Sample Collected:	04-JUN-15	Findings:	. 0.752 PCI/L
Chemical:	RADIUM, TOTAL, MDA95-NTNC ONLY, BY 903.0		

H38
SSW
1/4 - 1/2 Mile
Higher

FED USGS **USGS40000133712**

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-332713117063001		
Monloc name:	008S002W29F001S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	18070302	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	33.4536407
Longitude:	-117.1091969	Sourcemap scale:	Not Reported
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	1092.00
Vert measure units:	feet	Vertacc measure val:	20
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	80
Welldepth units:	ft	Wellholedepth:	80
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

I39
NE
1/2 - 1 Mile
Higher

CA WELLS **CADW60000021380**

Objectid:	21380
Latitude:	33.465
Longitude:	-117.0993
Site code:	334650N1170993W001
State well numbe:	08S02W21M001S
Local well name:	''
Well use id:	6
Well use descrip:	Unknown
County id:	33
County name:	Riverside

Basin code:	'9-5'
Basin desc:	Temecula Valley
Dwr region id:	80238
Dwr region:	Southern Region Office
Site id:	CADW60000021380

H40
SSW **FED USGS** **USGS40000133710**
1/2 - 1 Mile
Higher

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-332712117063401		
Monloc name:	008S002W29F003S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	Not Reported	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	33.4533333
Longitude:	-117.1094444	Sourcemap scale:	Not Reported
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Global positioning system (GPS), uncorrected		
Horiz coord refsys:	NAD83	Vert measure val:	1093
Vert measure units:	feet	Vertacc measure val:	20
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	20060802	Welldepth:	Not Reported
Welldepth units:	Not Reported	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

J41
WSW **FED USGS** **USGS40000133729**
1/2 - 1 Mile
Higher

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-332722117064701		
Monloc name:	008S002W29D002S		
Monloc type:	Well		
Monloc desc:	Orig.depth 265; depth measured 199 on 4/7/07		
Huc code:	18070302	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	33.4561406
Longitude:	-117.1139193	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	1090.
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Aquifer type: Not Reported
Construction date: Not Reported
Welldepth: 199
Welldepth units: ft
Wellholedepth: Not Reported
Wellholedepth units: Not Reported

Ground-water levels, Number of Measurements: 196

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
2005-03-02	7.16		2005-02-04	12.99	
2004-12-08	26.19		2004-11-03	25.80	
2004-10-01	25.80		2004-09-01	24.72	
2004-08-02	25.02		2004-07-01	24.43	
2004-06-01	24.42		2004-05-10	23.40	
2004-04-13	22.53		2004-03-08	21.68	
2004-02-12	22.39		2004-01-15	20.96	
2003-12-05	21.65		2003-11-03	20.53	
2003-10-03	20.76		2003-09-02	20.32	
2003-08-01	19.60		2003-07-07	19.68	
2003-06-02	18.21		2003-05-01	19.09	
2003-04-02	20.15		2003-03-03	20.86	
2003-02-04	21.88		2003-01-10	21.35	
2002-12-02	22.16		2002-11-01	21.11	
2002-10-03	21.05		2002-09-03	19.41	
2002-08-02	15.58		2002-07-02	14.50	
2002-06-03	14.15		2002-05-01	13.84	
2002-04-02	13.67		2002-03-05	13.63	
2002-02-13	13.51		2002-01-04	13.26	
2001-12-05	13.37		2001-11-01	13.33	
2001-10-03	13.02		2001-09-06	12.93	
2001-08-02	12.22		2001-07-03	11.64	
2001-06-07	10.90		2001-05-04	10.79	
2001-04-06	11.14		2001-03-13	11.58	
2001-02-01	12.67		2001-01-04	12.91	
2000-12-06	12.83		2000-11-07	13.08	
2000-10-04	12.92		2000-09-06	12.59	
2000-08-01	12.56		2000-07-06	11.64	
2000-06-05	11.49		2000-05-09	11.34	
2000-04-03	10.62		2000-03-13	10.73	
2000-02-09	11.67		2000-01-06	11.44	
1999-12-14	11.52		1999-11-12	11.62	
1999-10-15	10.96		1999-09-08	10.35	
1999-08-03	9.87		1999-07-01	8.78	
1999-06-10	8.42		1999-05-03	8.25	
1999-04-08	8.70		1999-03-02	8.61	
1999-02-01	8.71		1999-01-05	8.61	
1998-12-07	8.48		1998-11-23	8.35	
1998-09-10	7.01		1998-08-11	6.02	
1998-07-02	4.05		1998-06-02	2.70	
1998-05-01	1.87		1998-04-08	0.71	
1998-01-23	10.69		1997-12-12	10.83	
1997-11-07	10.87		1997-10-16	10.55	
1997-09-09	10.10		1997-08-15	9.63	
1997-07-21	9.03		1997-06-02	7.74	
1997-05-05	7.13		1997-04-09	6.55	
1997-03-13	6.57		1997-02-19	7.02	
1997-01-28	8.44		1996-12-03	10.09	
1996-11-04	10.11		1996-10-18	10.03	
1996-09-03	9.55		1996-08-02	8.85	

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel
1996-07-10	8.36	
1996-06-03	7.85	
1996-05-01	7.47	
1996-04-15	7.38	
1996-03-18	7.23	
1996-02-08	7.43	
1996-01-03	7.49	
1995-12-04	7.44	
1995-11-03	7.56	
1995-10-03	7.55	
1995-09-05	6.80	
1995-08-11	6.03	
1995-07-21	5.39	
1995-02-07	2.31	
1995-01-04	8.80	
1994-12-06	8.95	
1994-11-01	8.92	
1994-10-03	8.74	
1994-09-01	8.19	
1994-08-17	7.90	
1994-07-01	6.39	
1994-06-06	5.53	
1994-05-02	4.87	
1994-04-04	5.11	
1994-03-01	6.25	
1994-02-01	7.83	
1994-01-04	7.48	
1993-12-03	7.47	
1993-10-12	7.09	
1993-09-23	6.72	
1993-08-17	5.95	
1993-07-07	5.00	
1993-05-26	4.22	
1993-04-27	2.70	
1993-03-25	1.62	
1993-02-25	0.76	
1993-01-29	1.61	
1992-12-16	12.85	
1992-04-09	9.18	
1992-03-04	11.65	
1992-02-12	13.30	
1992-01-10	13.37	
1991-12-11	13.45	
1991-11-19	13.38	
1991-10-11	12.83	
1991-09-11	12.30	
1991-08-07	11.62	
1991-07-03	10.96	
1991-06-06	10.48	
1991-05-08	10.34	
1991-04-04	14.45	
1991-03-19	13.70	
1991-02-08	16.43	
1991-01-08	16.50	
1990-12-11	16.70	
1990-11-08	16.84	
1990-10-05	16.71	
1990-09-06	16.60	
1990-08-10	16.41	
1990-07-12	16.19	
1990-06-06	15.81	
1990-05-02	15.57	
1990-04-04	15.51	
1990-03-20	15.48	
1990-02-15	15.58	
1990-01-05	15.65	
Note: The site had been pumped recently.		
1989-12-06	15.66	
1989-11-07	15.74	
1989-10-17	15.73	
Note: The site had been pumped recently.		
1989-09-05	17.35	
Note: The site had been pumped recently.		
1989-08-02	18.58	
Note: The site had been pumped recently.		
1989-07-05	26.13	
Note: The site had been pumped recently.		
1989-06-05	15.52	
1989-05-03	18.37	
Note: The site had been pumped recently.		
1989-04-05	14.15	
1989-03-01	14.17	
1989-02-08	14.27	
1989-01-05	14.32	
1988-12-05	14.39	
1988-11-01	14.36	
1988-10-06	14.36	
1988-09-01	21.20	
Note: The site had been pumped recently.		
1988-08-02	18.03	
Note: The site had been pumped recently.		

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1988-07-06	14.83		1988-06-14	12.41	
1988-05-16	11.97		1988-04-26	11.84	
1988-03-25	11.80		1988-02-29	11.93	
1988-01-29	12.49		1987-12-29	13.15	
1987-11-25	13.47		1987-10-24	13.59	
1987-09-21	13.83				
1987-06-24	13.41				

Note: The site had been pumped recently.

1987-03-18	10.69				

K42
WSW
1/2 - 1 Mile
Higher

FED USGS **USGS40000133742**

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-332729117065101		
Monloc name:	008S002W29D001S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	18070302	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	33.458085
Longitude:	-117.1150305	Sourcemap scale:	Not Reported
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	1065.00
Vert measure units:	feet	Vertacc measure val:	20
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	Not Reported
Welldepth units:	Not Reported	Wellholedepth:	108
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 9

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1993-05-14	11.89		1992-05-04	14.65	
1991-05-30	18.26		1990-11-29	29.24	
1990-05-03	26.69		1989-10-03	22.20	
1989-06-14	17.58		1989-03-15	17.43	
1967-09-01	13.00				

H43
SSW
1/2 - 1 Mile
Higher

FED USGS **USGS40000133708**

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-332711117063201		
Monloc name:	008S002W29F002S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	18070302	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	33.4530852
Longitude:	-117.1097525	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	1095.00
Vert measure units:	feet	Vertacc measure val:	5
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19781226	Welldepth:	201
Welldepth units:	ft	Wellholedepth:	200
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 3

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1979-07-19	7.53		1979-01-03	12.00	
1978-12-26	20.00				

I44
NE
1/2 - 1 Mile
Higher

FED USGS **USGS40000133826**

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-332754117055101		
Monloc name:	008S002W21M001S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	18070302	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	33.4650294
Longitude:	-117.0983631	Sourcemap scale:	Not Reported
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	1115.00
Vert measure units:	feet	Vertacc measure val:	20
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		

Aquifer type:	Not Reported		
Construction date:	19670101	Welldepth:	250
Welldepth units:	ft	Wellholedepth:	340
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 4

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1989-10-01					
Note: The well was destroyed (no water level is recorded).					
1989-05-10	102.52				
1989-03-14	106.88				
Note: The site had been pumped recently.					
1967-11-01	91.00				

45
SSW
1/2 - 1 Mile
Higher

CA WELLS **CADW60000022040**

Objectid:	22040
Latitude:	33.4531
Longitude:	-117.1107
Site code:	334531N1171107W001
State well numbe:	08S02W29F002S
Local well name:	''
Well use id:	6
Well use descrip:	Unknown
County id:	33
County name:	Riverside
Basin code:	'9-5'
Basin desc:	Temecula Valley
Dwr region id:	80238
Dwr region:	Southern Region Office
Site id:	CADW60000022040

J46
WSW
1/2 - 1 Mile
Higher

CA WELLS **CADW60000035758**

Objectid:	35758
Latitude:	33.4561
Longitude:	-117.1148
Site code:	334561N1171148W001
State well numbe:	08S02W29D002S
Local well name:	''
Well use id:	6
Well use descrip:	Unknown
County id:	33
County name:	Riverside
Basin code:	'9-5'
Basin desc:	Temecula Valley
Dwr region id:	80238
Dwr region:	Southern Region Office
Site id:	CADW60000035758

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

K47
WSW
1/2 - 1 Mile
Higher

CA WELLS **CADW60000000389**

Objectid:	389
Latitude:	33.4581
Longitude:	-117.1159
Site code:	334581N1171159W001
State well numbe:	08S02W29D001S
Local well name:	’’
Well use id:	6
Well use descrip:	Unknown
County id:	33
County name:	Riverside
Basin code:	’9-5’
Basin desc:	Temecula Valley
Dwr region id:	80238
Dwr region:	Southern Region Office
Site id:	CADW60000000389

L48
SSE
1/2 - 1 Mile
Higher

FED USGS **USGS40000133700**

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-332707117060801		
Monloc name:	008S002W29J001S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	18070302	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	33.4519742
Longitude:	-117.1030856	Sourcemap scale:	Not Reported
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	1110.00
Vert measure units:	feet	Vertacc measure val:	20
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	200
Welldepth units:	ft	Wellholedepth:	200
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

49
SSE
1/2 - 1 Mile
Higher

FED USGS **USGS40000133704**

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-332709117060501		
Monloc name:	008S002W29J003S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	Not Reported	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	33.4525
Longitude:	-117.1013889	Sourcemap scale:	Not Reported
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Global positioning system (GPS), uncorrected		
Horiz coord refsys:	NAD83	Vert measure val:	1113
Vert measure units:	feet	Vertacc measure val:	20
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	20060802	Welldepth:	Not Reported
Welldepth units:	Not Reported	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

M50
South
1/2 - 1 Mile
Higher

CA WELLS **CADW60000035599**

Objectid:	35599
Latitude:	33.4509
Longitude:	-117.1065
Site code:	334509N1171065W001
State well numbe:	08S02W29K001S
Local well name:	''
Well use id:	6
Well use descrip:	Unknown
County id:	33
County name:	Riverside
Basin code:	'9-5'
Basin desc:	Temecula Valley
Dwr region id:	80238
Dwr region:	Southern Region Office
Site id:	CADW60000035599

M51
South
1/2 - 1 Mile
Higher

FED USGS **USGS40000133689**

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-332703117061701		
Monloc name:	008S002W29K001S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	18070302	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	33.4508631
Longitude:	-117.1055857	Sourcemap scale:	Not Reported

Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	1110.00
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	Not Reported
Welldepth units:	Not Reported	Wellholedepth:	39
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 206

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
2005-03-02	26.15		2005-02-04	36.79	
2005-01-04	36.26				
2004-12-08					
Note: The site was dry (no water level recorded).					
2004-11-03					
Note: The site was dry (no water level recorded).					
2004-10-01					
Note: The site was dry (no water level recorded).					
2004-09-01					
Note: The site was dry (no water level recorded).					
2004-08-02					
Note: The site was dry (no water level recorded).					
2004-07-01					
Note: The site was dry (no water level recorded).					
2004-06-01					
Note: The site was dry (no water level recorded).					
2004-05-10					
Note: The site was dry (no water level recorded).					
2004-04-13					
Note: The site was dry (no water level recorded).					
2004-03-08					
Note: The site was dry (no water level recorded).					
2004-02-12					
Note: The site was dry (no water level recorded).					
2004-01-15					
Note: The site was dry (no water level recorded).					
2003-12-05					
Note: The site was dry (no water level recorded).					
2003-11-03					
Note: The site was dry (no water level recorded).					
2003-10-03					
Note: The site was dry (no water level recorded).					
2003-09-02					
Note: The site was dry (no water level recorded).					
2003-08-01					
Note: The site was dry (no water level recorded).					
2003-07-07					
Note: The site was dry (no water level recorded).					
2003-06-02					
Note: The site was dry (no water level recorded).					
2003-05-01					
Note: The site was dry (no water level recorded).					

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel
2003-04-02		
Note: The site was dry (no water level recorded).		
2003-03-03		
Note: The site was dry (no water level recorded).		
2003-02-04		
Note: The site was dry (no water level recorded).		
2003-01-10		
Note: The site was dry (no water level recorded).		
2002-12-02		
Note: The site was dry (no water level recorded).		
2002-11-01		
Note: The site was dry (no water level recorded).		
2002-10-03		
Note: The site was dry (no water level recorded).		
2002-09-03	32.59	
2002-08-01	27.83	
2002-07-02	26.65	
2002-06-10	26.41	
2002-06-03	26.35	
2002-05-01	25.98	
2002-04-02	25.70	
2002-03-05	25.40	
2002-02-13	25.17	
2002-01-04	24.93	
2001-12-05	24.77	
2001-11-01	24.51	
2001-10-03	24.29	
2001-09-06	24.01	
2001-08-02	23.59	
2001-07-03	23.20	
2001-06-07	22.92	
2001-05-04	22.90	
2001-04-06	23.14	
2001-03-13	23.76	
2001-02-01	24.22	
2001-01-04	24.11	
2000-12-06	23.99	
2000-11-07	23.92	
2000-10-04	23.74	
2000-09-06	23.67	
2000-08-01	23.43	
2000-07-06	23.11	
2000-06-05	22.98	
2000-05-09	22.82	
2000-04-03	22.59	
2000-03-13	22.62	
2000-02-07	22.74	
2000-01-06	22.51	
1999-12-14	22.31	
1999-11-12	22.04	
1999-10-15	21.75	
1999-09-08	21.27	
1999-08-03	20.84	
1999-07-01	20.44	
1999-06-10	20.23	
1999-05-03	19.92	
1999-04-06	19.73	
1999-03-01	19.49	
1999-02-01	19.40	
1999-01-05	19.16	
1998-12-07	18.95	
1998-11-23	18.72	
1998-10-20	18.40	
1998-10-16	18.33	
1998-09-10	17.73	
1998-08-11	17.15	
1998-07-10	16.48	
1998-07-02	16.26	
1998-06-02	15.70	
1998-05-01	15.18	
1998-04-08	15.04	
1998-03-25	14.97	
1998-03-02	12.79	
1998-01-23	22.58	
1997-12-17	22.53	
1997-12-16	22.51	
1997-12-12	22.55	
1997-11-07	22.30	
1997-10-16	22.13	
1997-09-09	21.82	
1997-08-15	21.63	
1997-07-21	21.30	
1997-06-02	20.68	
1997-05-05	20.43	
1997-04-09	20.22	
1997-03-13	20.24	
1997-02-19	20.51	
1997-01-24	21.33	
1996-12-03	21.41	
1996-11-04	21.22	
1996-10-18	21.09	
1996-09-03	20.75	
1996-08-02	20.48	
1996-07-10	20.31	
1996-06-03	19.88	
1996-05-01	19.62	

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel
1996-04-15	19.47	
1996-02-08	19.15	
1995-12-04	18.32	
1995-10-03	17.18	
1995-08-11	16.02	
1995-02-07	13.48	
1994-12-06	18.90	
1994-10-03	17.78	
1994-08-17	16.73	
1994-06-06	14.87	
1994-04-04	13.43	
1994-02-01	15.21	
1993-12-03	13.90	
1993-09-23	12.05	
1993-07-15	9.81	
1993-05-29	8.27	
1993-03-25	6.98	
1993-01-29	5.91	
1992-05-07	17.54	
1992-03-04	20.45	
1992-01-10	21.60	
1991-11-19	20.84	
1991-09-11	19.42	
1991-07-03	17.80	
1991-05-08	16.60	
1991-03-19	28.47	
1991-01-08	30.34	
1990-11-08	30.12	
1990-09-06	29.45	
1990-07-12	28.83	
1990-05-02	28.39	
1990-03-20	28.27	
1990-02-15	28.23	
1989-12-06	27.94	
1989-10-17	27.65	
1989-08-02	27.11	
1989-06-05	26.68	
1989-04-05	26.35	
1989-02-08	26.08	
1988-12-05	25.70	
1988-10-06	25.15	
1988-08-02	24.34	
1988-06-14	23.76	
1988-04-26	23.22	
1988-02-29	22.90	
1987-12-29	23.69	
1987-10-24	23.17	
1996-03-18	19.35	
1996-01-03	18.78	
1995-11-03	17.77	
1995-09-05	16.57	
1995-07-21	15.51	
1995-01-04	19.15	
1994-11-01	18.35	
1994-09-01	17.06	
1994-07-01	15.49	
1994-05-02	14.01	
1994-03-01	13.15	
1994-01-04	14.60	
1993-10-12	12.59	
1993-08-17	10.91	
1993-07-07	9.54	
1993-04-27	7.50	
1993-02-25	4.68	
1992-12-16	21.47	
1992-04-09	17.42	
1992-02-12	21.94	
1991-12-11	21.14	
1991-10-11	20.10	
1991-08-07	18.58	
1991-06-06	17.25	
1991-04-04	22.50	
1991-02-08	30.40	
1990-12-11	30.34	
1990-10-05	29.77	
1990-08-10	29.14	
1990-06-06	28.57	
1990-04-04	28.30	
1990-03-07	28.26	
1990-01-05	28.10	
1989-11-07	27.80	
1989-09-05	27.35	
1989-07-05	26.86	
1989-05-03	26.50	
1989-03-01	26.19	
1989-01-05	25.93	
1988-11-01	25.45	
1988-09-01	24.71	
1988-07-06	24.01	
1988-05-16	23.46	
1988-03-25	22.94	
1988-01-29	23.46	
1987-11-25	23.44	
1972-08-01	25.00	

N52
ESE
1/2 - 1 Mile
Higher

CA WELLS **CADW60000021553**

Objectid:	21553
Latitude:	33.4559
Longitude:	-117.0962
Site code:	334559N1170962W001
State well numbe:	08S02W28C001S
Local well name:	''
Well use id:	6
Well use descrip:	Unknown
County id:	33
County name:	Riverside
Basin code:	'9-5'
Basin desc:	Temecula Valley
Dwr region id:	80238
Dwr region:	Southern Region Office
Site id:	CADW60000021553

L53
SSE **CA WELLS** **CADW60000015086**
1/2 - 1 Mile
Higher

Objectid:	15086
Latitude:	33.4509
Longitude:	-117.1029
Site code:	334509N1171029W001
State well numbe:	08S02W29J002S
Local well name:	''
Well use id:	6
Well use descrip:	Unknown
County id:	33
County name:	Riverside
Basin code:	'9-5'
Basin desc:	Temecula Valley
Dwr region id:	80238
Dwr region:	Southern Region Office
Site id:	CADW60000015086

54
SSE **FED USGS** **USGS40000133688**
1/2 - 1 Mile
Higher

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-332703117060401		
Monloc name:	008S002W29J002S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	18070302	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	33.4508631
Longitude:	-117.1019745	Sourcemap scale:	24000

Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	1110.00
Vert measure units:	feet	Vertacc measure val:	20
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19640101	Welldepth:	136.5
Welldepth units:	ft	Wellholedepth:	150
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 288

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
2005-03-02	39.50				
Note: A nearby site that taps the same aquifer had been pumped recently.					
2005-02-04	54.47		2005-01-04	66.29	
2004-12-08	68.82		2004-11-03	66.39	
2004-10-01	66.08		2004-09-01	62.04	
2004-08-02	63.85				
Note: The site had been pumped recently.					
2004-07-01	63.20				
Note: The site had been pumped recently.					
2004-06-01	63.26		2004-05-10	61.20	
2004-04-13	59.87		2004-03-08	57.36	
2004-02-12	57.98		2004-01-15	53.97	
2003-12-05	57.28		2003-11-03	52.19	
2003-10-03	53.33		2003-09-02	53.19	
2003-08-01	52.58		2003-07-07	56.81	
2003-06-02					
Note: The site was being pumped.					
2003-05-01					
Note: The site was being pumped.					
2003-04-02	52.85		2003-03-03	53.57	
2003-02-04	58.22		2003-01-10	55.62	
2002-12-02	59.06		2002-11-01	60.76	
2002-10-03	57.32				
Note: A nearby site that taps the same aquifer had been pumped recently.					
2002-09-03	60.90				
Note: The site was being pumped.					
2002-08-01	48.49				
Note: The site was being pumped.					
2002-07-02	37.66		2002-06-03	38.56	
2002-05-02	36.63		2002-04-02	36.68	
2002-03-05	36.19		2002-02-13	36.09	
2002-01-08	35.73				
2001-12-05	35.58				
Note: The site had been pumped recently.					
2001-11-01	36.40		2001-10-03	35.83	
2001-09-06	35.51				
2001-08-02	35.69				
Note: The site had been pumped recently.					
2001-07-03	36.51				
Note: The site had been pumped recently.					
2001-06-07	40.90				
Note: The site had been pumped recently.					

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
2001-05-04	33.31				
2001-04-06	34.20				
Note: The site had been pumped recently.					
2001-03-13	33.92		2001-02-01	34.36	
2001-01-04	35.83		2000-12-06	35.00	
2000-11-07	35.32				
2000-10-04	38.97				
Note: The site had been pumped recently.					
2000-09-06	39.40				
Note: The site had been pumped recently.					
2000-08-01	36.70		2000-07-06	41.08	
2000-06-05	35.53		2000-05-09	35.93	
2000-04-03					
Note: The site was being pumped.					
2000-03-13	32.40		2000-02-09	33.12	
2000-01-06	32.30		1999-12-14	32.11	
1999-11-12	31.75		1999-10-15	32.32	
1999-09-08	31.47				
1999-08-03					
Note: The site was being pumped.					
1999-07-01	31.22				
Note: The site had been pumped recently.					
1999-06-10					
Note: The site was being pumped.					
1999-05-03	29.17		1999-04-06	29.37	
1999-03-02	29.35		1999-02-01	28.24	
1999-01-05	28.04		1998-12-07	27.51	
1998-11-23	27.57				
Note: The site had been pumped recently.					
1998-10-16	26.87		1998-09-10	28.15	
1998-08-11	27.03		1998-07-02	25.41	
1998-06-02	24.35		1998-05-01	24.69	
1998-04-08	24.52		1998-03-02	27.06	
1998-01-23	31.62		1997-12-12	31.88	
1997-11-07	32.06		1997-10-17	32.68	
1997-08-15	31.63				
1997-07-21					
Note: The site was being pumped.					
1997-06-02	30.09		1997-05-05	30.55	
1997-04-09	29.35		1997-03-13	28.82	
1997-02-19	28.56		1997-01-28	29.55	
1996-12-03	30.60		1996-11-04	30.49	
1996-10-18	30.50		1996-09-03	30.23	
1996-08-02					
Note: The site was being pumped.					
1996-07-10	29.23				
Note: The site had been pumped recently.					
1996-06-03	28.67		1996-05-01	27.92	
1996-04-15	27.47				
1996-03-18					
Note: The site was being pumped.					
1996-02-08	26.90		1996-01-03	26.71	
1995-12-04					
Note: The site was being pumped.					
1995-11-03	26.41				
1995-10-03					
Note: The site was being pumped.					

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1995-09-05	25.28				
1995-08-11	24.80				
Note: The site was being pumped.					
1995-07-21					
Note: The site was being pumped.					
1995-02-07	24.20				
1995-01-04					
Note: The site was being pumped.					
1994-12-06	28.69				
Note: The site had been pumped recently.					
1994-11-01	28.18		1994-10-03	28.57	
1994-09-01					
Note: The site was being pumped.					
1994-07-01	25.91				
Note: The site had been pumped recently.					
1994-06-06	27.51				
Note: The site had been pumped recently.					
1994-05-02	24.68		1994-04-04	24.13	
1994-03-01	24.07		1994-02-01	25.41	
1994-01-04	24.51		1993-12-03	23.99	
1993-10-12	23.17				
1993-09-23					
Note: The site was being pumped.					
1993-08-17	21.26				
Note: The site had been pumped recently.					
1993-07-07	20.04				
1993-05-27					
Note: The site was being pumped.					
1993-04-27	17.96				
Note: The site had been pumped recently.					
1993-03-25	17.15		1993-02-25	16.95	
1993-01-29	20.48		1992-12-16	32.13	
1992-04-09	27.44		1992-03-04	30.80	
1992-02-12	32.33		1992-01-10	32.40	
1991-12-11	32.36		1991-11-19	32.46	
1991-10-11	34.37				
Note: The site had been pumped recently.					
1991-09-11	31.34				
1991-08-06	32.42				
Note: The site had been pumped recently.					
1991-07-03	30.75				
1991-06-06	34.01				
Note: The site had been pumped recently.					
1991-05-08	30.47		1991-04-04	32.16	
1991-03-19	36.15		1991-02-08	39.22	
1991-01-08	38.99		1990-12-11	39.30	
1990-11-08	40.63				
Note: The site had been pumped recently.					
1990-10-05	39.52		1990-09-06	38.98	
1990-08-10	42.30				
Note: The site had been pumped recently.					
1990-07-12					
Note: The site was being pumped.					
1990-06-06	37.15				
Note: The site had been pumped recently.					

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel
1990-05-02	36.66	
Note: The site had been pumped recently.		
1990-04-04	36.56	
Note: The site had been pumped recently.		
1990-03-20	36.58	
Note: The site had been pumped recently.		
1990-02-15	36.63	
Note: The site had been pumped recently.		
1990-01-05	36.61	
Note: The site had been pumped recently.		
1989-12-07	36.73	
1989-11-07	37.25	
Note: The site had been pumped recently.		
1989-10-17	40.80	
Note: The site was being pumped.		
1989-09-05	36.38	
1989-08-02	36.41	
Note: The site had been pumped recently.		
1989-07-05	35.77	
1989-06-05	36.60	
Note: The site had been pumped recently.		
1989-05-03	35.28	
Note: The site had been pumped recently.		
1989-04-05	34.96	
1989-02-08	34.82	
1988-12-05	34.85	
1988-10-06	34.83	
1988-09-01	43.27	
Note: The site had been pumped recently.		
1988-08-02	34.64	
Note: The site had been pumped recently.		
1988-07-06	34.17	
Note: The site had been pumped recently.		
1988-06-14		
Note: The site was being pumped.		
1988-05-16	33.03	
Note: The site had been pumped recently.		
1988-04-26	33.00	
Note: The site had been pumped recently.		
1988-03-25	32.31	
1988-02-29	34.26	
Note: The site had been pumped recently.		
1988-01-29	32.18	
Note: The site had been pumped recently.		
1987-12-29	33.43	
Note: The site had been pumped recently.		
1987-11-25	34.16	
Note: The site had been pumped recently.		
1987-10-24	35.78	
Note: The site was being pumped.		
1987-09-21	33.96	
Note: The site had been pumped recently.		
1987-06-24	31.77	
1987-03-18	29.39	
Note: The site had been pumped recently.		

Date	Feet below Surface	Feet to Sealevel
1989-03-01	34.84	
1989-01-05	34.81	
1988-11-01	34.78	

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1986-12-09	29.01				
1985-12-05	30.68				
Note: The site had been pumped recently.					
1985-09-13	32.72				
Note: The site had been pumped recently.					
1985-06-04	36.68				
Note: The site was being pumped.					
1985-03-14	28.33		1984-12-03	29.54	
1984-10-01	30.86				
1984-06-26	34.93				
Note: The site had been pumped recently.					
1984-03-14	25.57				
Note: The site had been pumped recently.					
1983-12-07	23.10				
Note: The site had been pumped recently.					
1983-10-03	21.22				
1983-06-27	19.94				
Note: The site had been pumped recently.					
1983-03-23	16.35				
Note: The site had been pumped recently.					
1982-12-01	27.30				
Note: The site had been pumped recently.					
1982-08-26	25.95				
1982-06-30	29.83				
Note: The site was being pumped.					
1982-04-12	31.50				
Note: The site was being pumped.					
1982-02-26	28.27				
1981-11-24	39.37				
Note: The site was being pumped.					
1981-10-14	30.25		1981-09-15	32.97	
1981-08-04	33.58				
Note: The site had been pumped recently.					
1981-07-10	27.23		1981-06-04	26.99	
1981-04-08	24.77		1981-03-10	24.10	
1981-02-18	24.03		1981-01-30	23.78	
1980-12-10	22.54		1980-11-04	22.12	
1980-10-07	24.14		1980-09-02	19.68	
1980-07-31	26.05				
Note: The site had been pumped recently.					
1980-06-30	16.67		1980-05-14	14.19	
1980-04-08	12.33		1980-02-29	12.76	
1980-01-31	19.86				
1979-12-26	25.63				
Note: The site was being pumped.					
1979-11-20	0.00				
Note: The site was being pumped.					
1979-10-16	22.14				
1979-08-09	26.20				
Note: The site had been pumped recently.					
1979-07-12	18.73		1979-06-12	17.88	
1979-05-08	20.48				
Note: The site had been pumped recently.					
1979-04-11	14.01				
1979-03-22	18.62				
Note: The site had been pumped recently.					

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1979-02-08	19.09				
1979-01-09	22.24				
Note: The site was being pumped.					
1978-10-03	20.06		1978-09-08	19.35	
1978-08-03	18.97		1978-03-08	13.73	
1978-02-17	20.47				
1978-01-26	26.39				
Note: The site had been pumped recently.					
1977-12-21	33.33				
1977-11-22	47.78				
Note: The site was being pumped.					
1977-09-23	38.39		1977-08-26	33.90	
1977-07-19	42.78				
Note: The site was being pumped.					
1977-06-15	33.16		1977-05-23	35.25	
1977-05-02	34.03		1977-03-31	33.94	
1977-03-07	33.76		1977-02-03	33.88	
1976-12-28	35.57		1976-11-03	35.21	
1976-10-08	35.61		1976-09-13	35.99	
1976-08-13	40.50				
Note: The site had been pumped recently.					
1976-06-16	47.99				
Note: The site was being pumped.					
1976-05-20	37.53		1976-04-22	37.12	
1976-03-24	49.52				
Note: The site was being pumped.					
1976-02-19	42.09				
Note: The site had been pumped recently.					
1976-01-13	37.28		1975-12-11	38.16	
1975-11-07	47.48				
Note: The site had been pumped recently.					
1975-09-24	49.17				
Note: The site had been pumped recently.					
1975-08-25	39.37				
1975-07-25	46.74				
Note: The site had been pumped recently.					
1975-06-27	40.45				
Note: The site had been pumped recently.					
1975-04-23	36.44		1975-03-27	35.21	
1975-01-29	35.01		1974-12-26	35.00	
1973-03-30	33.37				
1972-08-22	74.38				
Note: The site was being pumped.					
1967-09-13	23.74		1967-09-01	24.00	

N55
ESE
1/2 - 1 Mile
Higher

FED USGS **USGS40000133727**

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-332721117054001		
Monloc name:	008S002W28C001S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	18070302	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	33.455863
Longitude:	-117.0953075	Sourcemap scale:	Not Reported
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	1129.00
Vert measure units:	feet	Vertacc measure val:	.1
Vert accmeasure units:	feet		
Vertcollection method:	Level or other surveying method		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	Not Reported
Welldepth units:	Not Reported	Wellholedepth:	230
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 127

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1973-05-02	92.14		1971-07-28	84.30	
1971-07-01	86.70		1971-06-01	82.70	
1971-04-30	82.40		1971-04-02	85.70	
1971-03-05	80.80		1971-01-31	81.50	
1971-01-05	82.50		1970-12-04	87.10	
1970-11-13	80.80		1970-10-06	82.70	
1970-09-17	82.20		1970-08-05	80.70	
1970-07-09	83.50		1970-06-04	81.30	
1970-05-01	81.70		1970-04-02	81.50	
1970-03-06	83.30		1970-02-02	82.20	
1969-12-31	82.20		1969-11-03	83.00	
1969-09-27	83.70		1969-09-02	83.70	
1969-08-02	85.20		1969-07-08	85.50	
1969-05-31	86.80		1969-03-29	91.10	
1969-03-03	95.20		1969-02-11	94.10	
1969-01-04	95.60		1968-12-31	94.00	
1968-11-30	96.10		1968-10-01	98.00	
1968-09-05	96.70		1968-06-25	91.10	
1968-05-05	91.10		1968-04-05	93.70	
1968-03-01	95.00		1968-01-29	95.80	
1967-10-29	96.80		1967-10-01	97.00	
1967-09-30	96.80		1967-08-01	98.40	
1967-07-04	99.00		1967-05-31	100.50	
1967-04-27	101.20		1967-03-09	101.00	
1967-01-28	102.80		1966-12-01	103.60	
1966-11-01	103.50		1966-09-01	104.29	
1966-03-01	104.70		1966-01-01	104.73	
1965-10-01	105.16		1965-07-01	104.18	
1965-04-01	103.95		1965-01-01	103.27	
1964-10-01	103.18		1964-07-01	103.78	
1964-04-01	101.62		1963-10-01	98.91	

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel
1963-08-27	98.52	
1963-07-03	98.32	
1963-01-07	97.63	
1962-10-24	97.25	
1962-08-22	97.06	
1962-07-01	96.64	
1962-05-23	96.05	
1962-04-01	95.72	
1962-01-01	95.32	
1961-11-01	94.76	
1961-07-11	93.04	
1961-05-29	92.31	
1961-03-01	91.18	
1961-01-01	90.58	
1960-10-25	90.14	
1960-08-19	89.45	
1960-06-16	88.67	
1960-05-25	88.46	
1960-03-25	87.94	
1960-02-08	90.89	
1959-12-23	88.16	
1959-10-20	88.61	
1959-08-24	90.56	
1959-06-25	90.73	
1958-10-29	92.14	
1954-07-01	97.60	
1952-07-01	102.4	
1950-07-01	98.70	
1948-06-01	88.10	
1943-07-01	71.40	
1939-12-01	70.60	
1927-07-01	86.60	
1925-07-01	82.90	
1963-07-30	98.43	
1963-05-28	98.19	
1962-12-04	97.49	
1962-10-01	97.25	
1962-07-17	96.69	
1962-06-26	96.44	
1962-04-05	95.72	
1962-01-26	95.32	
1961-11-09	94.76	
1961-08-16	93.56	
1961-07-01	93.04	
1961-03-07	91.18	
1961-01-17	90.58	
1960-12-05	90.33	
1960-09-13	89.76	
1960-07-15	89.03	
1960-06-01	89.76	
1960-04-15	88.04	
1960-02-18	87.88	
1960-01-28	88.02	
1959-10-28	89.10	
1959-09-24	89.98	
1959-07-24	90.76	
1959-06-01	92.60	
1955-03-01	94.80	
1953-07-01	99.90	
1951-07-01	101.6	
1949-06-01	94.00	
1944-07-01	73.20	
1942-09-01	71.20	
1936-12-01	97.90	
1926-07-01	86.60	

O56
WNW
1/2 - 1 Mile
Lower

CA WELLS **8628**

Water System Information:

Prime Station Code:	08S/02W-19J03 S	User ID:	WAT
FRDS Number:	3310038024	County:	Riverside
District Number:	14	Station Type:	WELL/AMBNT/MUN/INTAKE
Water Type:	Well/Groundwater	Well Status:	Active Raw
Source Lat/Long:	332756.0 1170701.0	Precision:	100 Feet (one Second)
Source Name:	WELL 119		
System Number:	3310038		
System Name:	Rancho California Water District		
Organization That Operates System:			
	P.O. Box 9017		
	Temecula, CA 92589		
Pop Served:	68900	Connections:	20396
Area Served:	RANCHO CALIFORNIA		

Sample Collected:	12-JAN-11	Findings:	480. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	12-JAN-11	Findings:	13. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	25-JAN-11	Findings:	3.4 UG/L
Chemical:	CHROMIUM, HEXAVALENT		
Sample Collected:	12-APR-11	Findings:	2.9 UG/L
Chemical:	CHROMIUM, HEXAVALENT		
Sample Collected:	12-APR-11	Findings:	560. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	12-APR-11	Findings:	12. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	07-JUL-11	Findings:	840. US
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	07-JUL-11	Findings:	7.4
Chemical:	PH, LABORATORY		
Sample Collected:	07-JUL-11	Findings:	200. MG/L
Chemical:	ALKALINITY (TOTAL) AS CACO3		
Sample Collected:	07-JUL-11	Findings:	250. MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	07-JUL-11	Findings:	290. MG/L
Chemical:	HARDNESS (TOTAL) AS CACO3		
Sample Collected:	07-JUL-11	Findings:	85. MG/L
Chemical:	CALCIUM		
Sample Collected:	07-JUL-11	Findings:	18. MG/L
Chemical:	MAGNESIUM		
Sample Collected:	07-JUL-11	Findings:	60. MG/L
Chemical:	SODIUM		
Sample Collected:	07-JUL-11	Findings:	1.9 MG/L
Chemical:	POTASSIUM		
Sample Collected:	07-JUL-11	Findings:	84. MG/L
Chemical:	CHLORIDE		
Sample Collected:	07-JUL-11	Findings:	0.2 MG/L
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)		
Sample Collected:	07-JUL-11	Findings:	3.5 UG/L
Chemical:	CHROMIUM, HEXAVALENT		
Sample Collected:	07-JUL-11	Findings:	540. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	07-JUL-11	Findings:	12. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	13-OCT-11	Findings:	3.2 UG/L
Chemical:	CHROMIUM, HEXAVALENT		
Sample Collected:	13-OCT-11	Findings:	610. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		

Sample Collected:	13-OCT-11	Findings:	15. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	10-JAN-12	Findings:	520. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	10-JAN-12	Findings:	14. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	22-FEB-12	Findings:	3.5 UG/L
Chemical:	CHROMIUM, HEXAVALENT		
Sample Collected:	03-APR-12	Findings:	3.8 UG/L
Chemical:	CHROMIUM, HEXAVALENT		
Sample Collected:	03-APR-12	Findings:	550. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	03-APR-12	Findings:	14. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	10-JUL-12	Findings:	3.8 UG/L
Chemical:	CHROMIUM, HEXAVALENT		
Sample Collected:	10-JUL-12	Findings:	540. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	10-JUL-12	Findings:	14. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	04-OCT-12	Findings:	3.4 UG/L
Chemical:	CHROMIUM, HEXAVALENT		
Sample Collected:	04-OCT-12	Findings:	550. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	04-OCT-12	Findings:	15. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	16-JAN-13	Findings:	3.4 UG/L
Chemical:	CHROMIUM, HEXAVALENT		
Sample Collected:	16-JAN-13	Findings:	530. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	16-JAN-13	Findings:	17. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	16-JAN-13	Findings:	6.72 PCI/L
Chemical:	GROSS ALPHA		
Sample Collected:	16-JAN-13	Findings:	1.53 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	16-JAN-13	Findings:	6.28 PCI/L
Chemical:	URANIUM (PCI/L)		
Sample Collected:	16-JAN-13	Findings:	0.98 PCI/L
Chemical:	URANIUM COUNTING ERROR		
Sample Collected:	12-APR-13	Findings:	3.5 UG/L
Chemical:	CHROMIUM, HEXAVALENT		
Sample Collected:	12-APR-13	Findings:	540. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		

Sample Collected:	12-APR-13	Findings:	18. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	03-JUL-13	Findings:	3.6 UG/L
Chemical:	CHROMIUM, HEXAVALENT		
Sample Collected:	03-JUL-13	Findings:	540. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	03-JUL-13	Findings:	16. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	03-OCT-13	Findings:	4. UG/L
Chemical:	CHROMIUM, HEXAVALENT		
Sample Collected:	03-OCT-13	Findings:	500. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	03-OCT-13	Findings:	17. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	28-JAN-14	Findings:	3.6 UG/L
Chemical:	CHROMIUM, HEXAVALENT		
Sample Collected:	28-JAN-14	Findings:	600. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	28-JAN-14	Findings:	21. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	16-APR-14	Findings:	. 4.1 UG/L
Chemical:	CHROMIUM, HEXAVALENT		
Sample Collected:	16-APR-14	Findings:	. 540. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	16-APR-14	Findings:	. 21. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	10-JUL-14	Findings:	. 860. US
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	10-JUL-14	Findings:	. 7.4
Chemical:	PH, LABORATORY		
Sample Collected:	10-JUL-14	Findings:	. 210. MG/L
Chemical:	ALKALINITY (TOTAL) AS CACO3		
Sample Collected:	10-JUL-14	Findings:	. 260. MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	10-JUL-14	Findings:	. 300. MG/L
Chemical:	HARDNESS (TOTAL) AS CACO3		
Sample Collected:	10-JUL-14	Findings:	. 90. MG/L
Chemical:	CALCIUM		
Sample Collected:	10-JUL-14	Findings:	. 18. MG/L
Chemical:	MAGNESIUM		
Sample Collected:	10-JUL-14	Findings:	. 60. MG/L
Chemical:	SODIUM		
Sample Collected:	10-JUL-14	Findings:	. 1.2 MG/L
Chemical:	POTASSIUM		

Sample Collected:	10-JUL-14	Findings:	. 73. MG/L
Chemical:	CHLORIDE		
Sample Collected:	10-JUL-14	Findings:	. 0.2 MG/L
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)		
Sample Collected:	10-JUL-14	Findings:	. 3.9 UG/L
Chemical:	CHROMIUM, HEXAVALENT		
Sample Collected:	10-JUL-14	Findings:	. 560. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	10-JUL-14	Findings:	. 18. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	02-OCT-14	Findings:	. 4. UG/L
Chemical:	CHROMIUM, HEXAVALENT		
Sample Collected:	02-OCT-14	Findings:	. 600. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	02-OCT-14	Findings:	. 18. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	20-JAN-15	Findings:	. 3.3 UG/L
Chemical:	CHROMIUM, HEXAVALENT		
Sample Collected:	20-JAN-15	Findings:	. 540. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	20-JAN-15	Findings:	. 19. MG/L
Chemical:	NITRATE (AS NO3)		
Sample Collected:	14-APR-15	Findings:	. 3.4 UG/L
Chemical:	CHROMIUM, HEXAVALENT		
Sample Collected:	14-APR-15	Findings:	. 710. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	14-APR-15	Findings:	. 17. MG/L
Chemical:	NITRATE (AS NO3)		

P57
SE
1/2 - 1 Mile
Higher

CA WELLS **CADW60000009353**

Objectid:	9353
Latitude:	33.4514
Longitude:	-117.0987
Site code:	334514N1170987W001
State well numbe:	08S02W28M003S
Local well name:	''
Well use id:	6
Well use descrip:	Unknown
County id:	33
County name:	Riverside
Basin code:	'9-5'
Basin desc:	Temecula Valley
Dwr region id:	80238
Dwr region:	Southern Region Office
Site id:	CADW60000009353

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

Q58
NW
1/2 - 1 Mile
Lower

CA WELLS **8632**

Water System Information:

Prime Station Code:	08S/02W-20E02 S	User ID:	WAT
FRDS Number:	3310038022	County:	Riverside
District Number:	14	Station Type:	WELL/AMBNT/MUN/INTAKE
Water Type:	Well/Groundwater	Well Status:	Active Raw
Source Lat/Long:	332807.0 1170653.0	Precision:	100 Feet (one Second)
Source Name:	WELL 117		
System Number:	3310038		
System Name:	Rancho California Water District		
Organization That Operates System:			
	P.O. Box 9017		
	Temecula, CA 92589		
Pop Served:	68900	Connections:	20396
Area Served:	RANCHO CALIFORNIA		

R59
NNW
1/2 - 1 Mile
Lower

FED USGS **USGS40000133863**

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-332813117064401		
Monloc name:	008S002W20E001S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	18070302	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	33.4703069
Longitude:	-117.1130859	Sourcemap scale:	Not Reported
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	1027.00
Vert measure units:	feet	Vertacc measure val:	20
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	Not Reported
Welldepth units:	Not Reported	Wellholedepth:	59
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 263

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1959-11-04	14.1		1959-05-25	17.2	
1958-10-30	15.5		1955-03-31	11.6	
1955-02-28	11.3		1955-01-31	11.1	

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel
1954-12-31	10.7	
1954-10-30	7.32	
1954-08-31	6.00	
1954-06-30	6.20	
1954-04-24	7.00	
1954-02-27	5.78	
1953-08-29	6.19	
1953-06-30	6.42	
1953-03-30	7.20	
1953-01-31	7.22	
1952-11-29	7.65	
1952-09-30	7.20	
1952-07-03	15.2	
1952-05-31	16.3	
1952-03-31	14.8	
1952-01-31	15.9	
1951-12-29	16.9	
1951-10-31	16.2	
1951-08-31	16.0	
1951-05-31	15.4	
1951-03-31	15.3	
1951-01-24	16.6	
1950-11-30	15.3	
1950-09-30	15.2	
1950-07-31	15.4	
1950-05-31	15.1	
1950-03-31	14.6	
1950-01-31	10.4	
1949-11-30	10.1	
1949-10-31	6.00	
1949-08-31	6.50	
1949-06-30	6.10	
1949-04-30	6.69	
1949-02-28	5.42	
1948-12-31	5.12	
1948-10-30	1.32	
1948-08-31	9.01	
1948-06-28	5.03	
1948-05-24	13.5	
1948-03-31	13.7	
1948-01-31	7.29	
1947-10-31	5.10	
1947-08-26	10.1	
1947-06-30	11.8	
1947-04-30	11.0	
1947-02-28	11.0	
1946-12-31	10.6	
1946-10-31	10.6	
1946-08-31	11.0	
1946-06-29	10.7	
1946-04-30	10.3	
1946-02-27	10.2	
1945-12-31	9.71	
1945-10-30	10.1	
1945-08-31	9.93	
1954-11-30	10.4	
1954-09-30	6.07	
1954-07-31	5.00	
1954-05-31	4.68	
1954-03-31	6.00	
1954-01-30	5.05	
1953-07-31	5.74	
1953-04-30	7.82	
1953-02-26	6.26	
1952-12-30	6.34	
1952-10-31	7.69	
1952-07-30	8.60	
1952-06-30	14.8	
1952-04-30	15.4	
1952-02-29	15.5	
1952-01-02	15.0	
1951-11-30	16.4	
1951-09-29	16.2	
1951-07-30	16.1	
1951-04-30	15.0	
1951-02-28	15.5	
1950-12-30	15.9	
1950-10-31	14.7	
1950-08-30	17.6	
1950-06-30	15.2	
1950-04-29	8.48	
1950-02-28	10.6	
1949-12-31	10.2	
1949-11-28	6.31	
1949-09-30	5.34	
1949-07-30	6.22	
1949-05-31	5.00	
1949-03-31	6.05	
1949-01-31	5.12	
1948-11-30	6.17	
1948-09-30	5.33	
1948-07-26	5.23	
1948-05-31	5.85	
1948-04-30	13.5	
1948-02-28	14.3	
1947-11-29	8.78	
1947-09-30	4.93	
1947-07-31	10.6	
1947-05-31	11.4	
1947-03-31	10.7	
1947-01-31	10.7	
1946-11-30	10.5	
1946-09-30	10.7	
1946-07-29	10.5	
1946-05-31	10.5	
1946-03-30	10.2	
1946-01-30	10.1	
1945-11-30	10.0	
1945-09-30	10.1	
1945-07-31	9.41	

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel
1945-06-30	9.71	
1945-04-30	9.45	
1945-02-27	9.21	
1944-12-30	9.00	
1944-10-31	8.17	
1944-08-31	8.90	
1944-06-30	9.75	
1944-04-28	8.38	
1944-02-29	7.74	
1943-12-30	8.14	
1943-10-30	8.51	
1943-08-31	9.50	
1943-06-30	11.2	
1943-04-30	7.99	
1943-02-27	8.00	
1942-11-30	9.10	
1942-09-30	12.1	
1942-07-31	13.8	
1942-05-29	9.11	
1942-03-27	8.18	
1942-01-31	9.90	
1941-11-29	9.90	
1941-09-30	9.25	
1941-07-31	13.1	
1941-05-31	9.97	
1941-03-28	9.87	
1940-11-30	9.17	
1940-09-30	9.32	
1940-07-31	13.0	
1940-05-31	11.7	
1940-03-30	12.3	
1940-03-13	8.74	
1940-02-09	8.53	
1939-12-27	8.91	
1936-09-25	20.3	
1936-07-06	22.4	
1936-04-21	14.5	
1935-12-11	14.6	
1935-09-13	16.2	
1935-04-25	13.8	
1935-01-09	13.9	
1934-10-09	18.8	
1934-08-29	18.9	
1934-05-07	20.1	
1934-01-22	13.7	
1933-10-07	18.6	
1933-07-17	19.6	
1933-04-17	18.5	
1932-12-05	14.1	
1932-08-31	15.7	
1932-05-06	14.3	
1932-03-30	14.2	
1932-01-04	16.3	
1931-10-30	16.6	
1931-09-24	17.3	
1945-05-31	9.61	
1945-03-31	9.06	
1945-01-31	9.16	
1944-11-30	8.78	
1944-09-30	8.89	
1944-07-31	8.86	
1944-05-31	8.61	
1944-03-30	8.21	
1944-01-31	8.36	
1943-11-30	8.34	
1943-09-30	10.1	
1943-07-31	13.0	
1943-05-31	8.08	
1943-03-31	7.98	
1942-12-31	8.67	
1942-10-31	8.81	
1942-08-31	10.4	
1942-06-29	8.39	
1942-04-29	8.48	
1942-02-28	9.14	
1942-01-01	8.14	
1941-10-31	8.42	
1941-08-31	10.1	
1941-06-30	9.50	
1941-04-29	9.98	
1940-12-31	8.98	
1940-10-31	9.18	
1940-08-31	10.1	
1940-06-29	11.1	
1940-04-30	9.06	
1940-03-26	10.6	
1940-02-25	9.37	
1940-01-13	8.80	
1936-10-28	19.1	
1936-08-12	21.3	
1936-06-19	26.6	
1936-03-27	14.4	
1935-10-29	16.3	
1935-07-11	18.7	
1935-01-30	14.3	
1934-11-06	15.4	
1934-09-10	20.1	
1934-07-14	20.2	
1934-03-15	14.1	
1933-11-17	16.1	
1933-08-21	16.2	
1933-05-08	14.6	
1933-02-24	13.7	
1932-11-11	15.0	
1932-06-28	17.7	
1932-04-13	15.3	
1932-03-01	18.8	
1931-11-18	16.2	
1931-10-15	15.0	
1931-08-27	19.3	

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1931-07-23	29.2		1931-06-28	20.4	
1931-05-15	16.5		1927-09-26	12.7	
1927-08-26	12.9		1927-07-28	12.9	
1927-06-21	12.7		1927-05-14	12.6	
1927-04-06	12.3		1927-03-28	12.2	
1927-02-11	11.1		1927-01-18	13.1	
1926-12-22	13.0		1926-11-01	13.0	
1926-10-15	13.1		1926-09-29	14.5	
1926-08-26	13.5		1926-07-28	13.1	
1926-06-17	14.0		1926-05-30	12.5	
1926-04-30	11.9		1926-03-31	12.4	
1926-02-27	13.6		1926-01-09	12.1	
1925-12-27	12.0		1925-11-28	11.8	
1925-10-01	11.8		1925-09-26	12.5	
1925-08-26	12.1		1925-07-21	11.0	
1925-06-16	13.8		1925-05-03	11.6	
1925-04-10	11.7		1925-03-26	11.9	
1925-02-09	11.8		1925-01-21	11.6	
1924-12-23	11.4				

P60
SE
1/2 - 1 Mile
Higher

FED USGS **USGS40000133693**

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-332705117054901		
Monloc name:	008S002W28M003S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	18070302	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	33.4514187
Longitude:	-117.0978077	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	1130.00
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19740101	Welldepth:	600
Welldepth units:	ft	Wellholedepth:	600
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 270

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
2005-03-02	94.12		2005-02-04	100.71	
2005-01-04	110.50		2004-12-08	125.25	

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
2004-11-03					
Note: An obstruction was encountered in the well above the water surface (no water level recorded).					
2004-10-01					
Note: The site was being pumped.					
2004-09-01					
Note: The site was being pumped.					
2004-08-02					
Note: The site was being pumped.					
2004-07-01	107.63				
2004-06-01					
Note: The site was being pumped.					
2004-05-10	102.95		2004-04-13	94.84	
2004-03-08	95.12		2004-02-12	104.65	
2004-01-15	91.49		2003-12-05	94.28	
2003-11-03	106.98		2003-10-03	105.25	
2003-09-02	106.42				
2003-08-01	129.99				
Note: The site had been pumped recently.					
2003-07-07	104.47		2003-06-02	94.63	
2003-05-01	90.74		2003-04-02	93.09	
2003-02-04	96.07		2003-01-10	99.05	
2002-12-02	101.80		2002-11-01	108.32	
2002-09-03	105.50		2002-08-01	91.85	
2002-07-02	116.08				
Note: The site had been pumped recently.					
2002-06-03	98.69		2002-05-02	79.85	
2002-04-02	93.81				
2002-03-05					
Note: The site was being pumped.					
2002-02-13	94.53				
Note: The site had been pumped recently.					
2002-01-04					
Note: The site was being pumped.					
2001-12-05	70.12		2001-11-01	77.90	
2001-10-03	81.67		2001-09-06	81.65	
2001-08-02					
Note: An obstruction was encountered in the well above the water surface (no water level recorded).					
2001-07-03					
Note: An obstruction was encountered in the well above the water surface (no water level recorded).					
2001-06-07	66.07		2001-05-04	66.55	
2001-04-06	67.79				
2001-03-13					
Note: An obstruction was encountered in the well above the water surface (no water level recorded).					
2001-02-01	74.55		2001-01-04	101.56	
2000-12-06	69.06		2000-11-07	71.92	
2000-10-04	81.02				
Note: The site had been pumped recently.					
2000-09-06	110.96		2000-08-01	90.68	
2000-07-06	83.21				
Note: The site had been pumped recently.					
2000-06-05	73.69		2000-05-09	84.55	
2000-04-03					
Note: The site was being pumped.					
2000-03-13	68.72				
2000-02-07					
Note: The site was being pumped.					

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
2000-01-06	76.45				
1999-12-14					
Note: The site was being pumped.					
1999-11-12	72.84		1999-09-08	82.46	
1999-07-01	87.50		1999-06-10	65.38	
1999-05-03	69.93		1999-04-08	85.15	
1999-03-02	77.15		1999-02-01	68.62	
1999-01-05					
Note: The site was being pumped.					
1998-12-07	60.24		1998-11-23	60.06	
1998-10-16	60.71		1998-09-10	61.38	
1998-08-11	62.67				
1998-07-02	60.91				
Note: Foreign substance was present on the surface of the water.					
1998-06-02	60.17		1998-05-06	60.77	
1998-04-08	61.16		1998-03-02	62.92	
1998-01-23	65.68		1997-12-12	68.72	
1997-11-07	94.72		1997-10-16	70.75	
1997-09-12	90.13		1997-08-15	79.91	
1997-07-21					
Note: The site was being pumped.					
1997-06-02	65.61		1997-05-05	64.03	
1997-04-09	74.01				
Note: The site had been pumped recently.					
1997-03-13	62.96		1997-02-19	63.48	
1997-01-24	64.60		1996-12-03	77.18	
1996-11-04	69.09		1996-10-18	75.72	
1996-09-03	76.59		1996-08-02	77.74	
1996-07-15					
Note: The site was being pumped.					
1996-07-10					
Note: An obstruction was encountered in the well above the water surface (no water level recorded).					
1996-06-03	73.87				
1996-05-01	59.64				
Note: Foreign substance was present on the surface of the water.					
1996-04-15	59.41				
Note: Foreign substance was present on the surface of the water.					
1996-03-18	59.62		1996-02-08	59.87	
1996-01-03	61.94		1995-12-04	60.63	
1995-11-03	66.93		1995-10-03	59.70	
1995-09-05	61.33				
1995-08-11	67.81				
Note: Foreign substance was present on the surface of the water.					
1995-07-21	58.05				
Note: Foreign substance was present on the surface of the water.					
1995-02-07	66.88		1995-01-04	70.44	
1994-12-06	88.18		1994-11-01	67.90	
1994-10-03	75.64		1994-09-01	77.49	
1994-08-17	88.78		1994-07-01	60.94	
1994-06-06	60.41		1994-05-02	60.31	
1994-04-04	60.92		1994-03-01	66.03	
1994-02-01	90.10		1994-01-04	59.82	
1993-12-03	62.67		1993-10-12	71.82	
1993-09-23	59.48				
1993-08-17	61.83				
Note: The site had been pumped recently.					

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1993-07-07	57.78		1993-05-27	57.35	
1993-04-27	57.96		1993-03-25	60.04	
1993-02-25	62.47		1993-01-29	65.99	
1992-12-16	77.92		1992-04-09	65.78	
1992-03-04	67.12		1992-02-12	68.28	
1992-01-10	73.08		1991-12-11	76.00	
1991-11-19	71.62				
1991-10-11	99.82				
Note: The site had been pumped recently.					
1991-09-11	74.93		1991-08-07	75.50	
1991-07-03	70.47		1991-06-06	72.25	
1991-05-08	76.18		1991-04-04	89.24	
1991-03-19	102.46				
1991-02-08	158.41				
Note: The site had been pumped recently.					
1991-01-08	85.48				
Note: The site had been pumped recently.					
1990-12-11	99.98				
Note: Other conditions existed that would affect the measured water level.					
1990-11-08	135.96				
1990-10-05	146.06				
Note: The site had been pumped recently.					
1990-09-06	150.70				
Note: The site had been pumped recently.					
1990-08-10					
Note: The site was being pumped.					
1990-07-12	82.47				
Note: A nearby site that taps the same aquifer had been pumped recently.					
1990-06-06	76.13				
Note: A nearby site that taps the same aquifer was being pumped.					
1990-05-02	70.39				
Note: The site had been pumped recently.					
1990-04-04	96.30				
Note: The site had been pumped recently.					
1990-03-20	68.14		1990-02-15	68.87	
1990-01-05	71.44				
Note: A nearby site that taps the same aquifer had been pumped recently.					
1989-12-06	107.16				
Note: The site had been pumped recently.					
1989-11-07	75.20				
Note: The site had been pumped recently.					
1989-10-17	73.13				
Note: A nearby site that taps the same aquifer was being pumped.					
1989-09-05	106.07				
Note: The site had been pumped recently.					
1989-08-02	78.42				
Note: Other conditions existed that would affect the measured water level.					
1989-07-05	89.11				
Note: Other conditions existed that would affect the measured water level.					
1989-06-05	70.31				
Note: Other conditions existed that would affect the measured water level.					
1989-05-03	78.56				
Note: Other conditions existed that would affect the measured water level.					
1989-04-05	67.48		1989-03-01	67.70	
1989-02-08	68.44				
Note: Other conditions existed that would affect the measured water level.					

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel
1989-01-05	70.06	
Note: Other conditions existed that would affect the measured water level.		
1988-12-05	74.46	
Note: Other conditions existed that would affect the measured water level.		
1988-11-01	75.59	
Note: Other conditions existed that would affect the measured water level.		
1988-10-06	86.69	
Note: Other conditions existed that would affect the measured water level.		
1988-09-01	117.97	
Note: The site had been pumped recently.		
1988-08-02	121.14	
Note: The site had been pumped recently.		
1988-07-06	100.55	
Note: The site had been pumped recently.		
1988-06-14	101.74	
Note: The site had been pumped recently.		
1988-05-16	78.53	
Note: Other conditions existed that would affect the measured water level.		
1988-04-26	94.77	
Note: The site had been pumped recently.		
1988-03-25	72.15	
Note: Other conditions existed that would affect the measured water level.		
1988-02-29	67.01	
1988-01-29	67.74	
Note: Other conditions existed that would affect the measured water level.		
1987-12-29	69.87	
Note: Other conditions existed that would affect the measured water level.		
1987-11-25	77.89	
Note: Other conditions existed that would affect the measured water level.		
1987-10-24	103.46	
Note: The site had been pumped recently.		
1987-03-18	65.67	
Note: Other conditions existed that would affect the measured water level.		
1986-12-09	72.92	
Note: Other conditions existed that would affect the measured water level.		
1985-12-05	74.53	
Note: The site had been pumped recently.		
1985-09-13	79.56	
Note: The site had been pumped recently.		
1985-06-04	83.92	
Note: The site had been pumped recently.		
1985-03-14	62.16	
1984-12-03	70.90	
Note: The site had been pumped recently.		
1984-06-26	139.07	
Note: The site had been pumped recently.		
1984-03-14	137.40	
Note: The site had been pumped recently.		
1983-12-07	58.84	
1983-10-03	78.67	
Note: The site had been pumped recently.		
1983-06-27	67.89	
Note: The site had been pumped recently.		
1983-03-23	58.65	
1982-12-01	71.81	
Note: The site had been pumped recently.		

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1982-08-26	131.98				
Note: The site had been pumped recently.					
1982-06-30	85.25		1982-04-12	56.73	
1982-02-26	57.90		1981-11-24	99.12	
1981-10-14	119.60				
Note: A nearby site that taps the same aquifer was being pumped.					
1981-09-15	129.71				
Note: The site was being pumped.					
1981-08-04	129.84				
Note: The site was being pumped.					
1981-07-10	129.95				
Note: The site was being pumped.					
1981-06-04	85.08		1981-04-08	52.00	
1981-03-10	52.97		1981-02-18	53.67	
1980-12-10	67.20		1980-11-04	108.83	
1980-09-02	51.10		1980-07-31	51.12	
1980-06-30	50.17		1980-05-14	49.33	
1980-04-08	52.37		1980-02-29	54.75	
1980-01-31	56.77		1980-01-29	64.70	
1979-12-26	57.12		1979-11-20	57.19	
1979-10-16	57.47		1979-09-06	55.49	
1979-08-09	54.89		1979-07-12	60.34	
1979-06-12	54.16		1979-05-09	54.94	
1979-04-11	55.47		1979-03-22	55.96	
1979-02-08	57.10		1979-01-09	57.07	
1978-10-03	57.50		1978-09-08	57.60	
1978-08-03	58.17				
1978-03-08	72.85				
Note: A nearby site that taps the same aquifer was being pumped.					
1978-02-17	76.73				
Note: A nearby site that taps the same aquifer was being pumped.					
1978-01-26	78.35				
Note: A nearby site that taps the same aquifer was being pumped.					
1977-12-21	74.48				
Note: A nearby site that taps the same aquifer was being pumped.					
1977-11-22	129.99				
Note: The site was being pumped.					
1977-09-23	116.65		1977-08-26	85.35	
1977-07-19	94.67				
1977-06-15	129.85				
Note: The site was being pumped.					
1977-05-23	98.63		1977-05-02	93.48	
1977-03-31	87.64				
1977-03-07	130.10				
Note: The site had been pumped recently.					
1977-02-03	91.58		1976-12-02	104.50	
1976-11-03	94.74		1976-10-08	109.27	
1976-09-13	98.98		1976-08-13	84.85	
1976-06-16	130.44				
Note: Other conditions existed that would affect the measured water level.					
1976-05-20	100.62		1976-04-22	78.82	
1976-03-24	129.21				
Note: The site had been pumped recently.					
1976-02-19	78.38		1976-01-13	78.05	

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

P61
SE
1/2 - 1 Mile
Higher

FED USGS **USGS40000133691**

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-332704117055301		
Monloc name:	008S002W28M005S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	Not Reported	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	33.4511111
Longitude:	-117.0980556	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Global positioning system (GPS), uncorrected		
Horiz coord refsys:	NAD83	Vert measure val:	1130
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	Not Reported
Welldepth units:	Not Reported	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

62
North
1/2 - 1 Mile
Higher

CA WELLS **8631**

Water System Information:

Prime Station Code:	08S/02W-20C01 S	User ID:	WAT
FRDS Number:	3310038068	County:	Riverside
District Number:	14	Station Type:	WELL/AMBNT
Water Type:	Well/Groundwater	Well Status:	Abandoned
Source Lat/Long:	332819.0 1170615.0	Precision:	100 Feet (one Second)
Source Name:	WELL 223 - ABANDONED		
System Number:	3310038		
System Name:	Rancho California Water District		
Organization That Operates System:			
	P.O. Box 9017		
	Temecula, CA 92589		
Pop Served:	68900	Connections:	20396
Area Served:	RANCHO CALIFORNIA		

O63
WNW
1/2 - 1 Mile
Lower

FED USGS **USGS40000133839**

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-332800117070201		
Monloc name:	008S002W19J002S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	18070302	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	33.4666958
Longitude:	-117.118086	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	1030.00
Vert measure units:	feet	Vertacc measure val:	20
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19550101	Welldepth:	Not Reported
Welldepth units:	Not Reported	Wellholedepth:	208
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 91

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1979-07-16					
Note: The measurement was discontinued.					
1979-07-12	27.27		1979-06-12	22.83	
1979-05-09	22.30		1979-04-11	20.98	
1979-03-21	23.65		1979-02-08	22.22	
1979-01-09	24.54		1978-10-03	29.03	
1978-09-08	26.65		1978-08-03	29.78	
1978-03-08	17.51		1978-02-17	19.77	
1978-01-26	23.70		1977-12-21	25.40	
1977-11-22	26.14		1977-09-23	26.29	
1977-08-26	26.02		1977-07-19	25.79	
1977-06-15	24.21		1977-05-23	23.63	
1977-05-02	24.72		1977-03-31	23.60	
1977-03-07	23.37		1977-02-02	24.43	
1976-12-28	24.40		1976-12-02	24.73	
1976-11-03	25.26		1976-10-08	25.65	
1976-09-13	26.27		1976-08-13	26.70	
1976-07-15	28.40		1976-06-16	24.21	
1976-05-20	23.25		1976-04-22	22.25	
1976-03-24	22.30		1976-02-19	23.01	
1976-01-13	23.17		1975-12-11	23.70	
1975-11-07	24.34		1975-09-24	25.43	
1975-08-25	25.36		1975-07-25	24.98	
1975-06-27	23.23		1975-05-23	22.10	
1975-04-23	21.74		1975-03-27	21.75	
1975-02-27	21.96		1975-01-29	22.05	
1974-12-26	22.25		1973-03-29	19.64	
1972-05-18	22.62		1971-10-29	22.38	
1968-03-19	23.36		1967-10-10	25.52	
1967-09-13	23.50		1967-09-01	24.00	
1967-03-28	23.94		1966-09-27	24.41	

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1966-03-24	24.33		1966-01-24	23.49	
1965-12-27	23.65		1965-10-15	26.90	
1965-08-19	24.68		1965-05-04	24.05	
1965-03-30	25.06				
1965-02-17	29.05				
Note: The site was being pumped.					
1965-01-14	24.26		1964-12-17	24.62	
1964-10-15	26.39		1964-08-31	25.84	
1964-07-30	25.51		1964-07-02	25.00	
1964-05-29	24.86		1964-04-29	24.60	
1964-03-28	25.35		1964-02-28	25.59	
1964-01-29	23.79		1963-12-23	24.30	
1963-12-02	24.86		1963-10-24	25.09	
1963-09-26	25.45		1963-08-27	28.65	
1963-07-30	29.93				
1961-07-11	42.08				
Note: The site was being pumped.					
1961-05-29	26.23		1961-05-08	25.50	
1959-11-20	24.43		1959-11-11	32.00	
1958-10-30	24.25		1958-10-13	26.42	

R64
NNW
1/2 - 1 Mile
Lower

CA WELLS **CADW60000021377**

Objectid:	21377
Latitude:	33.4703
Longitude:	-117.114
Site code:	334703N1171140W001
State well numbe:	08S02W20E001S
Local well name:	''
Well use id:	6
Well use descrip:	Unknown
County id:	33
County name:	Riverside
Basin code:	'9-5'
Basin desc:	Temecula Valley
Dwr region id:	80238
Dwr region:	Southern Region Office
Site id:	CADW60000021377

65
WNW
1/2 - 1 Mile
Lower

FED USGS **USGS40000133829**

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-332755117070601		
Monloc name:	008S002W19J001S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	18070302	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	33.4653069
Longitude:	-117.1191972	Sourcemap scale:	Not Reported

Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	1032.00
Vert measure units:	feet	Vertacc measure val:	.1
Vert accmeasure units:	feet		
Vertcollection method:	Level or other surveying method		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19210101	Welldepth:	53
Welldepth units:	ft	Wellholedepth:	53
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

Q66
NW
1/2 - 1 Mile
Lower

CA WELLS **CADW60000003412**

Objectid:	3412
Latitude:	33.469443
Longitude:	-117.115641
Site code:	334694N1171156W001
State well numbe:	Not Reported
Local well name:	'RCWD 495'
Well use id:	1
Well use descrip:	Observation
County id:	33
County name:	Riverside
Basin code:	'9-5'
Basin desc:	Temecula Valley
Dwr region id:	80238
Dwr region:	Southern Region Office
Site id:	CADW60000003412

S67
NNE
1/2 - 1 Mile
Higher

CA WELLS **8629**

Water System Information:

Prime Station Code:	08S/02W-20B04 S	User ID:	WAT
FRDS Number:	3310038066	County:	Riverside
District Number:	14	Station Type:	WELL/AMBNT
Water Type:	Well/Groundwater	Well Status:	Abandoned
Source Lat/Long:	332819.0 1170601.0	Precision:	100 Feet (one Second)
Source Name:	WELL 218 (028) - ABANDONED		
System Number:	3310038		
System Name:	Rancho California Water District		
Organization That Operates System:			
	P.O. Box 9017		
	Temecula, CA 92589		
Pop Served:	68900	Connections:	20396
Area Served:	RANCHO CALIFORNIA		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

68
WNW
1/2 - 1 Mile
Lower

CA WELLS **CADW60000021373**

Objectid:	21373
Latitude:	33.4667
Longitude:	-117.119
Site code:	334667N1171190W001
State well numbe:	08S02W19J002S
Local well name:	’’
Well use id:	6
Well use descrip:	Unknown
County id:	33
County name:	Riverside
Basin code:	’9-5’
Basin desc:	Temecula Valley
Dwr region id:	80238
Dwr region:	Southern Region Office
Site id:	CADW60000021373

T69
North
1/2 - 1 Mile
Lower

FED USGS **USGS40000133889**

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-332822117062601		
Monloc name:	008S002W20B001S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	18070302	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	33.4728068
Longitude:	-117.1080857	Sourcemap scale:	Not Reported
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	1035.00
Vert measure units:	feet	Vertacc measure val:	20
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19180101	Welldepth:	100
Welldepth units:	ft	Wellholedepth:	213
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

T70
North
1/2 - 1 Mile
Lower

FED USGS **USGS40000133890**

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-332822117062603		
Monloc name:	008S002W20B003S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	18070302	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	33.4728068
Longitude:	-117.1080857	Sourcemap scale:	Not Reported
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	1035.00
Vert measure units:	feet	Vertacc measure val:	20
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19190101	Welldepth:	133
Welldepth units:	ft	Wellholedepth:	133
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1967-10-01	9.00	

T71
North
1/2 - 1 Mile
Lower

FED USGS **USGS40000133891**

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-332822117062604		
Monloc name:	008S002W20B004S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	18070302	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	33.4728068
Longitude:	-117.1080857	Sourcemap scale:	Not Reported
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	1035.00
Vert measure units:	feet	Vertacc measure val:	20
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		

Aquifer type: Not Reported
Construction date: 19540101 Welldepth: 289
Welldepth units: ft Wellholedepth: 298
Wellholedepth units: ft

Ground-water levels, Number of Measurements: 4

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1990-11-30	59.59		1990-05-03	51.14	
1989-10-03	94.24				
Note: A nearby site that taps the same aquifer was being pumped.					
1989-06-14	36.8				

T72
North
1/2 - 1 Mile
Lower

CA WELLS **CADW60000021375**

Objectid: 21375
Latitude: 33.4728
Longitude: -117.109
Site code: 334728N1171090W002
State well numbe: 08S02W20B004S
Local well name: ''
Well use id: 6
Well use descrip: Unknown
County id: 33
County name: Riverside
Basin code: '9-5'
Basin desc: Temecula Valley
Dwr region id: 80238
Dwr region: Southern Region Office
Site id: CADW60000021375

T73
North
1/2 - 1 Mile
Lower

CA WELLS **CADW60000016205**

Objectid: 16205
Latitude: 33.4728
Longitude: -117.109
Site code: 334728N1171090W001
State well numbe: 08S02W20B003S
Local well name: ''
Well use id: 6
Well use descrip: Unknown
County id: 33
County name: Riverside
Basin code: '9-5'
Basin desc: Temecula Valley
Dwr region id: 80238
Dwr region: Southern Region Office
Site id: CADW60000016205

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database	EDR ID Number
CA WELLS	**CADW60000021554**

U74
SSE
1/2 - 1 Mile
Higher

Objectid:	21554
Latitude:	33.4492
Longitude:	-117.0993
Site code:	334492N1170993W001
State well numbe:	08S02W28M002S
Local well name:	’’
Well use id:	6
Well use descrip:	Unknown
County id:	33
County name:	Riverside
Basin code:	’9-5’
Basin desc:	Temecula Valley
Dwr region id:	80238
Dwr region:	Southern Region Office
Site id:	CADW60000021554

T75
North
1/2 - 1 Mile
Lower

Database	EDR ID Number
FED USGS	**USGS40000133892**

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-332822117063001		
Monloc name:	008S002W20C001S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	18070302	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	33.4728068
Longitude:	-117.1091968	Sourcemap scale:	Not Reported
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	1030.00
Vert measure units:	feet	Vertacc measure val:	20
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19530101	Welldepth:	250
Welldepth units:	ft	Wellholedepth:	254
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 5

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1991-10-22	22.13		1990-05-03	20.14	
1989-10-03	22.46		1989-06-14	22.3	

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1967-10-01	9.00				

V76
NNW
1/2 - 1 Mile
Lower

CA WELLS **CADW60000021376**

Objectid:	21376
Latitude:	33.4728
Longitude:	-117.1101
Site code:	334728N1171101W001
State well numbe:	08S02W20C001S
Local well name:	'RCWD 492'
Well use id:	6
Well use descrip:	Unknown
County id:	33
County name:	Riverside
Basin code:	'9-5'
Basin desc:	Temecula Valley
Dwr region id:	80238
Dwr region:	Southern Region Office
Site id:	CADW60000021376

V77
NNW
1/2 - 1 Mile
Lower

FED USGS **USGS40000133894**

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-332823117063101		
Monloc name:	008S002W20C002S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	18070302	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	33.4730846
Longitude:	-117.1094746	Sourcemap scale:	Not Reported
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	1030.00
Vert measure units:	feet	Vertacc measure val:	20
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	Not Reported
Welldepth units:	Not Reported	Wellholedepth:	100
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

Map ID
Direction
Distance
Elevation

	Database	EDR ID Number
U78 **SSE** **1/2 - 1 Mile** **Higher**	**FED USGS**	**USGS40000133675**

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-332657117055101		
Monloc name:	008S002W28M002S		
Monloc type:	Well		
Monloc desc:	Orig.depth 98.5; depth measured 92.8 on 4/6/07		
Huc code:	18070302	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	33.4491965
Longitude:	-117.0983633	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	1120.00
Vert measure units:	feet	Vertacc measure val:	20
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	92.8
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 299

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
2005-03-02	59.94		2005-02-04	62.97	
2005-01-04	65.37		2004-12-08	65.82	
2004-11-03	65.37				
2004-10-01					
Note: The site was dry (no water level recorded).					
2004-09-01					
Note: The site was dry (no water level recorded).					
2004-08-02					
Note: The site was dry (no water level recorded).					
2004-07-01					
Note: The site was dry (no water level recorded).					
2004-06-01	64.35		2004-05-10	64.43	
2004-04-13	64.20		2004-03-08	63.75	
2004-02-12	63.51		2004-01-15	62.64	
2003-12-05	62.86		2003-11-03	62.77	
2003-10-03	63.01		2003-09-02	63.07	
2003-08-01	63.17		2003-07-07	63.23	
2003-06-02	62.76				
2003-05-01	62.94				
Note: A nearby site that taps the same aquifer was being pumped.					
2003-04-02	63.75				
Note: A nearby site that taps the same aquifer was being pumped.					
2003-03-03	64.30				
2003-02-04					
Note: The site was dry (no water level recorded).					

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
2003-01-10					
Note: The site was dry (no water level recorded).					
2002-12-02					
Note: The site was dry (no water level recorded).					
2002-11-01					
Note: The site was dry (no water level recorded).					
2002-10-03	61.87		2002-09-03	59.74	
2002-08-01	55.79		2002-07-02	55.00	
2002-06-03	54.48		2002-05-02	54.09	
2002-04-02	54.25				
2002-03-05	53.89				
Note: A nearby site that taps the same aquifer was being pumped.					
2002-02-13	53.42		2002-01-04	53.33	
2001-12-05	52.99		2001-11-01	53.19	
2001-10-03	53.05		2001-09-06	52.82	
2001-08-02	52.46		2001-07-03	52.32	
2001-06-07	51.67		2001-05-04	51.78	
2001-04-06	52.09		2001-03-13	52.52	
2001-02-01	53.20		2001-01-04	53.39	
2000-12-06	52.65		2000-11-07	52.78	
2000-10-04	52.92		2000-09-06	53.16	
2000-08-01	53.02		2000-07-06	52.15	
2000-06-05	51.95		2000-05-09	52.48	
2000-04-03	51.42		2000-03-13	50.84	
2000-02-09	50.97		2000-01-06	50.51	
1999-12-14	50.01		1999-11-12	49.64	
1999-10-15	49.77		1999-09-08	48.92	
1999-08-07	48.56		1999-07-01	48.03	
1999-06-10	47.17		1999-05-03	47.29	
1999-04-06	47.09		1999-03-01	46.22	
1999-02-01	45.54		1999-01-05	45.15	
1998-12-07	44.39		1998-11-23	44.16	
1998-10-16	43.67		1998-09-10	43.19	
1998-08-11	43.04		1998-07-02	42.96	
1998-06-02	43.15		1998-05-01	44.35	
1998-04-08	46.34		1998-03-02	49.42	
1998-01-23	50.49		1997-12-12	50.51	
1997-11-07	50.67		1997-10-16	50.13	
1997-09-09	50.31		1997-08-15	49.95	
1997-07-21	50.06		1997-06-02	48.77	
1997-05-05	48.77		1997-04-09	48.90	
1997-03-13	48.41		1997-02-19	48.45	
1997-01-24	48.63		1996-12-03	48.52	
1996-11-04	47.86		1996-10-18	47.80	
1996-09-03	47.19		1996-08-02	46.66	
1996-07-10	46.09		1996-06-03	45.50	
1996-05-01	44.50		1996-04-15	44.20	
1996-03-18	43.80		1996-02-08	43.22	
1996-01-03	42.72		1995-12-04	42.06	
1995-11-03	41.71		1995-10-03	40.77	
1995-09-05	40.27		1995-08-11	39.91	
1995-07-21	39.15		1995-02-07	45.80	
1995-01-04	47.06		1994-12-06	46.90	
1994-11-01	46.03		1994-10-03	45.85	
1994-09-01	45.32		1994-08-17	45.23	

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1994-07-01	43.70		1994-06-06	43.30	
1994-05-02	42.87		1994-04-04	42.54	
1994-03-01	42.41		1994-02-01	42.56	
1994-01-04	40.94		1993-12-03	40.30	
1993-10-12	39.01		1993-09-23	38.05	
1993-08-17	36.83		1993-07-07	35.15	
1993-05-27	34.42		1993-04-27	34.06	
1993-03-25	35.17		1993-02-25	40.05	
1993-01-29	46.37		1992-12-16	50.68	
1992-04-09	49.49		1992-03-04	50.13	
1992-02-12	50.39		1992-01-10	50.60	
1991-12-11	50.29		1991-11-19	49.99	
1991-10-11	50.14		1991-09-11	49.75	
1991-08-07	49.78		1991-07-03	49.73	
1991-06-06	50.43		1991-05-08	51.84	
1991-04-04	54.61		1991-03-19	56.09	
1991-02-19	56.00				
Note: A nearby site that taps the same aquifer had been pumped recently.					
1991-01-08	55.93		1990-12-11	56.47	
1990-11-08	57.00		1990-10-05	56.83	
1990-09-06	55.87		1990-08-10	55.34	
1990-07-12	54.11				
1990-06-06	53.66				
Note: A nearby site that taps the same aquifer was being pumped.					
1990-05-02	53.29				
1990-04-04	53.44				
Note: A nearby site that taps the same aquifer had been pumped recently.					
1990-03-20	52.99		1990-02-15	53.08	
1990-01-05	53.24		1989-12-06	53.45	
1989-11-07	53.19		1989-10-17	52.94	
1989-09-05	53.07		1989-08-02	52.80	
1989-07-05	52.70		1989-06-05	52.27	
1989-05-03	52.41		1989-04-05	51.83	
1989-03-01	51.77		1989-02-08	51.79	
1989-01-05	51.86		1988-12-05	52.10	
1988-11-01	52.00		1988-10-06	52.33	
1988-09-01	52.53		1988-08-02	52.36	
1988-07-06	51.95		1988-06-14	51.71	
1988-05-16	51.10		1988-04-26	51.47	
1988-03-25	50.47		1988-02-29	50.33	
1988-01-29	50.39		1987-12-29	50.49	
1987-11-25	50.75		1987-10-24	51.18	
1987-09-21	51.00				
Note: A nearby site that taps the same aquifer was being pumped.					
1987-06-24	49.39				
Note: A nearby site that taps the same aquifer was being pumped.					
1987-03-18	47.21		1986-12-09	46.79	
1985-12-05	49.45		1985-09-13	48.75	
1985-06-04	47.76		1985-03-14	46.63	
1984-12-03	46.55		1984-10-01	46.46	
1984-06-26	44.44		1984-03-14	41.79	
1983-12-07	38.58		1983-10-03	37.12	
1983-06-27	33.25		1983-03-23	38.89	
1982-12-01	43.60		1982-08-26	43.19	
1982-06-30	41.28		1982-04-12	42.47	

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1982-02-26	44.31		1981-11-24	44.46	
1981-10-14	43.77		1981-09-15	43.14	
1981-08-04	42.49		1981-07-10	41.88	
1981-06-04	40.65		1981-04-08	39.01	
1981-03-10	38.66		1981-02-18	38.31	
1981-01-30	38.12		1980-12-10	37.06	
1980-11-04	36.48				
1980-10-07	35.32				
Note: A nearby site that taps the same aquifer was being pumped.					
1980-09-02	33.30				
Note: A nearby site that taps the same aquifer was being pumped.					
1980-07-31	32.14		1980-06-30	30.89	
1980-05-14	28.55		1980-04-08	27.06	
1980-02-29	30.00		1980-01-31	39.53	
1979-12-26	39.39		1979-11-20	38.22	
1979-10-16	37.48		1979-09-06	37.89	
1979-08-09	36.17		1979-07-12	34.30	
1979-06-12	33.37		1979-05-09	32.72	
1979-04-11	34.24		1979-03-22	36.30	
1979-02-08	38.37		1979-01-09	38.61	
1978-10-03	35.93		1978-09-08	35.00	
1978-08-03	33.93				
1978-03-08	47.99				
Note: A nearby site that taps the same aquifer was being pumped.					
1978-02-17	50.96				
Note: A nearby site that taps the same aquifer was being pumped.					
1978-01-26	50.19				
Note: A nearby site that taps the same aquifer was being pumped.					
1977-12-21	51.23				
Note: A nearby site that taps the same aquifer was being pumped.					
1977-11-22	52.28		1977-09-23	52.77	
1977-08-26	52.20		1977-07-19	52.40	
1977-06-15	52.16		1977-05-23	51.41	
1977-05-02	52.59		1977-03-31	52.68	
1977-03-07	53.04		1977-02-03	53.27	
1976-12-28	53.87		1976-12-02	54.04	
1976-11-03	54.00		1976-10-08	54.14	
1976-09-13	54.19		1976-08-13	53.60	
1976-07-15	54.03		1976-06-16	54.66	
1976-05-20	54.73		1976-04-22	54.16	
1976-03-24	54.95		1976-02-19	54.52	
1976-01-13	54.64		1975-12-11	55.85	
1975-11-07	56.35		1967-09-13	40.83	
1961-01-17					
Note: The site was dry (no water level recorded).					
1960-12-08					
Note: The site was dry (no water level recorded).					
1960-10-25					
Note: The site was dry (no water level recorded).					
1960-09-13					
Note: The site was dry (no water level recorded).					
1960-08-19	39.30		1960-07-15	38.49	
1960-06-17	37.69		1960-05-16	36.81	
1960-04-15	36.50		1960-04-08	36.43	
1960-03-25	38.08		1960-03-14	36.27	

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1960-02-18	35.98		1960-01-28	35.96	
1960-01-25	35.73		1959-11-05	35.44	
1958-10-30	42.85				

S79
NNE **CA WELLS** **8630**
1/2 - 1 Mile
Higher

Water System Information:

Prime Station Code:	08S/02W-20B05 S	User ID:	WAT
FRDS Number:	3310038070	County:	Riverside
District Number:	14	Station Type:	WELL/AMBNT
Water Type:	Well/Groundwater	Well Status:	Active Raw
Source Lat/Long:	332822.0 1170601.0	Precision:	100 Feet (one Second)
Source Name:	WELL 231 (104)		
System Number:	3310038		
System Name:	Rancho California Water District		
Organization That Operates System:			
	P.O. Box 9017		
	Temecula, CA 92589		
Pop Served:	68900	Connections:	20396
Area Served:	RANCHO CALIFORNIA		
Sample Collected:	02-MAY-07	Findings:	830. MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		

W80
SSE **CA WELLS** **CADW60000009352**
1/2 - 1 Mile
Higher

Objectid:	9352
Latitude:	33.4492
Longitude:	-117.0979
Site code:	334492N1170979W001
State well numbe:	08S02W28M001S
Local well name:	''
Well use id:	6
Well use descrip:	Unknown
County id:	33
County name:	Riverside
Basin code:	'9-5'
Basin desc:	Temecula Valley
Dwr region id:	80238
Dwr region:	Southern Region Office
Site id:	CADW60000009352

X81
West **FED USGS** **USGS40000133776**
1/2 - 1 Mile
Lower

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-332743117071601		
Monloc name:	008S002W19Q001S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	18070302	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	33.4619737
Longitude:	-117.1219751	Sourcemap scale:	Not Reported
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	1050.00
Vert measure units:	feet	Vertacc measure val:	20
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19560101	Welldepth:	Not Reported
Welldepth units:	Not Reported	Wellholedepth:	256
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1967-09-01	20.00	

X82
West
1/2 - 1 Mile
Lower

CA WELLS **CADW60000031499**

Objectid:	31499
Latitude:	33.4619
Longitude:	-117.1222
Site code:	334619N1171222W001
State well numbe:	08S02W19Q002S
Local well name:	’’
Well use id:	6
Well use descrip:	Unknown
County id:	33
County name:	Riverside
Basin code:	’9-5’
Basin desc:	Temecula Valley
Dwr region id:	80238
Dwr region:	Southern Region Office
Site id:	CADW60000031499

X83
West
1/2 - 1 Mile
Lower

FED USGS **USGS40000133777**

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-332743117072001		
Monloc name:	008S002W19Q002S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	Not Reported	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	33.4619444
Longitude:	-117.1222222	Sourcemap scale:	24000
Horiz Acc measure:	3	Horiz Acc measure units:	seconds
Horiz Collection method:	Global positioning system (GPS), uncorrected		
Horiz coord refsys:	NAD83	Vert measure val:	1050
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	196
Welldepth units:	ft	Wellholedepth:	210
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

W84
SE
1/2 - 1 Mile
Higher

FED USGS **USGS40000133678**

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-332658117054501		
Monloc name:	008S002W28M004S		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	Not Reported	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	33.4494743
Longitude:	-117.0966965	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	1130
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	400
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

W85
SE
1/2 - 1 Mile
Higher | **FED USGS** | **USGS40000133674**

Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science Center		
Monloc Identifier:	USGS-332657117054601		
Monloc name:	008S002W28M001S		
Monloc type:	Well		
Monloc desc:	Orig.depth 269.50; depth measured 234 on 4/7/07		
Huc code:	18070302	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	33.4491965
Longitude:	-117.0969743	Sourcemap scale:	24000
Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	1126.00
Vert measure units:	feet	Vertacc measure val:	20
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	California Coastal Basin aquifers		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	234
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 358

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
2005-03-02	100.22		2005-02-04	108.33	
2005-01-04	124.76		2004-12-08	143.58	
2004-11-03	142.12		2004-10-01	163.14	
2004-09-01	167.08				
Note: A nearby site that taps the same aquifer was being pumped.					
2004-08-02	147.07				
Note: The site had been pumped recently.					
2004-07-01	129.19		2004-06-01	137.95	
2004-05-10	124.20		2004-04-13	104.50	
2004-03-08	103.50		2004-02-12	119.96	
2004-01-15	99.90		2003-12-05	104.78	
2003-11-03	130.52		2003-10-03	130.33	
2003-09-02	132.32		2003-08-01	139.01	
2003-07-07	123.78		2003-06-02	109.05	
2003-05-01	109.35				
Note: The site was being pumped.					
2003-04-02					
Note: The site was being pumped.					
2003-03-03	107.11		2003-02-04	102.74	
2003-01-10	110.95		2002-12-02	112.57	
2002-11-01	128.38				
2002-10-03	167.44				
Note: A nearby site that taps the same aquifer was being pumped.					
2002-09-03	139.95				
Note: A nearby site that taps the same aquifer was being pumped.					

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
2002-08-01	122.02				
Note: A nearby site that taps the same aquifer was being pumped.					
2002-07-02	141.10		2002-06-03	113.00	
2002-05-02	99.16				
Note: A nearby site that taps the same aquifer was being pumped.					
2002-04-02	117.57				
2002-03-05	103.69				
Note: A nearby site that taps the same aquifer was being pumped.					
2002-02-13	88.82				
Note: A nearby site that taps the same aquifer had been pumped recently.					
2002-01-04	82.20		2001-12-05	75.62	
2001-11-01	93.49		2001-10-03	103.18	
2001-09-06	99.46				
Note: A nearby site that taps the same aquifer had been pumped recently.					
2001-08-02	101.70				
2001-07-03	108.38				
Note: A nearby site that taps the same aquifer had been pumped recently.					
2001-06-07	71.39		2001-05-04	71.66	
2001-04-06	73.94		2001-03-13	73.17	
2001-02-01	86.45		2001-01-04	119.05	
2000-12-06	75.42		2000-11-07	82.53	
2000-10-04	100.98		2000-09-06	136.67	
2000-08-01	114.56		2000-07-06	104.31	
2000-06-05	88.23		2000-05-09	104.80	
2000-04-03	94.68		2000-03-13	77.79	
2000-02-09	89.80		2000-01-06	95.89	
1999-12-14	75.42		1999-11-12	90.02	
1999-10-15	119.98		1999-09-08	104.30	
1999-08-03	109.42		1999-07-01	108.57	
1999-06-10	79.01				
Note: A nearby site that taps the same aquifer was being pumped.					
1999-05-03	88.05				
1999-04-06	110.25				
Note: A nearby site that taps the same aquifer was being pumped.					
1999-03-02	101.31				
Note: A nearby site that taps the same aquifer was being pumped.					
1999-02-01	87.37		1999-01-05	75.51	
1998-12-07	68.56		1998-11-23	67.46	
1998-10-16	70.96		1998-09-10	70.90	
1998-08-11	79.34				
Note: A nearby site that taps the same aquifer was being pumped.					
1998-07-02					
Note: The site was being pumped.					
1998-06-02	65.00		1998-05-01	68.27	
1998-04-08	73.45				
Note: A nearby site that taps the same aquifer was being pumped.					
1998-03-02	65.90		1998-01-23	74.70	
1997-12-12	80.78				
1997-11-07	109.07				
Note: A nearby site that taps the same aquifer was being pumped.					
1997-10-16	88.96		1997-09-09	121.73	
1997-08-15	107.96				
Note: A nearby site that taps the same aquifer was being pumped.					
1997-07-21	130.51				
Note: A nearby site that taps the same aquifer was being pumped.					

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1997-06-02	85.64				
Note: A nearby site that taps the same aquifer was being pumped.					
1997-05-05	81.42				
Note: A nearby site that taps the same aquifer was being pumped.					
1997-04-09	89.31				
Note: A nearby site that taps the same aquifer was being pumped.					
1997-03-13	72.31				
Note: A nearby site that taps the same aquifer was being pumped.					
1997-02-19	74.17				
Note: A nearby site that taps the same aquifer was being pumped.					
1997-01-24	75.69				
1996-12-03	97.15				
Note: A nearby site that taps the same aquifer had been pumped recently.					
1996-11-04	84.08				
1996-10-18	101.21				
Note: A nearby site that taps the same aquifer was being pumped.					
1996-09-03	105.90				
Note: A nearby site that taps the same aquifer was being pumped.					
1996-08-02	103.24		1996-07-10	91.32	
1996-06-03	100.63				
Note: A nearby site that taps the same aquifer was being pumped.					
1996-05-01	68.23				
Note: A nearby site that taps the same aquifer was being pumped.					
1996-04-15	63.72				
1996-03-18	66.70				
Note: A nearby site that taps the same aquifer was being pumped.					
1996-02-08	64.34		1996-01-03	71.49	
1995-12-04	74.49				
Note: A nearby site that taps the same aquifer was being pumped.					
1995-11-03	83.22				
Note: A nearby site that taps the same aquifer was being pumped.					
1995-10-03	71.58				
Note: A nearby site that taps the same aquifer was being pumped.					
1995-09-05	78.19				
Note: A nearby site that taps the same aquifer was being pumped.					
1995-08-11	88.71				
Note: A nearby site that taps the same aquifer was being pumped.					
1995-07-21	66.61				
1995-02-07	73.18				
Note: A nearby site that taps the same aquifer was being pumped.					
1995-01-04	82.50		1994-12-06	92.33	
1994-11-01	74.98				
1994-10-03	99.67				
Note: A nearby site that taps the same aquifer was being pumped.					
1994-09-01	99.38		1994-08-17	109.59	
1994-07-01	71.66				
1994-06-06	73.41				
Note: A nearby site that taps the same aquifer was being pumped.					
1994-05-04	68.24				
Note: A nearby site that taps the same aquifer was being pumped.					
1994-05-02	68.24				
Note: A nearby site that taps the same aquifer was being pumped.					
1994-04-04	67.90				
1994-03-01	81.84				
Note: A nearby site that taps the same aquifer was being pumped.					

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1994-02-01	126.06				
Note: A nearby site that taps the same aquifer was being pumped.					
1994-01-04	69.20		1993-12-03	74.49	
1993-10-12	89.21		1993-09-23	70.25	
1993-08-17	70.77				
Note: A nearby site that taps the same aquifer was being pumped.					
1993-07-07	75.40				
Note: A nearby site that taps the same aquifer was being pumped.					
1993-05-27	67.14				
1993-04-27	70.69				
Note: A nearby site that taps the same aquifer was being pumped.					
1993-03-25	67.25				
Note: A nearby site that taps the same aquifer was being pumped.					
1993-02-25	67.98		1993-01-29	73.43	
1992-12-16	93.47				
Note: A nearby site that taps the same aquifer had been pumped recently.					
1992-04-09	69.91		1992-03-04	72.70	
1992-02-12	74.50		1992-01-10	83.89	
1991-12-11	89.66		1991-11-19	83.92	
1991-10-11	118.36				
Note: A nearby site that taps the same aquifer had been pumped recently.					
1991-09-11	96.76				
Note: A nearby site that taps the same aquifer was being pumped.					
1991-08-07	93.10				
Note: A nearby site that taps the same aquifer had been pumped recently.					
1991-07-03	88.82				
Note: A nearby site that taps the same aquifer was being pumped.					
1991-06-06	89.42		1991-05-08	92.56	
1991-04-04	112.70		1991-03-19	133.59	
1991-02-08	136.56				
Note: A nearby site that taps the same aquifer was being pumped.					
1991-01-08	94.51		1990-12-11	136.30	
1990-11-08	187.26				
Note: A nearby site that taps the same aquifer had been pumped recently.					
1990-10-05	211.08				
Note: A nearby site that taps the same aquifer had been pumped recently.					
1990-09-06	234.54				
Note: A nearby site that taps the same aquifer had been pumped recently.					
1990-08-10	201.71				
Note: A nearby site that taps the same aquifer was being pumped.					
1990-07-12	108.70				
Note: A nearby site that taps the same aquifer had been pumped recently.					
1990-06-06	98.01				
Note: A nearby site that taps the same aquifer was being pumped.					
1990-05-02	79.69				
1990-04-04	103.14				
Note: A nearby site that taps the same aquifer had been pumped recently.					
1990-03-20	71.77		1990-02-15	73.10	
1990-01-05	77.93				
1989-12-06	108.12				
Note: A nearby site that taps the same aquifer had been pumped recently.					
1989-11-07	85.22				
1989-10-17	92.87				
Note: A nearby site that taps the same aquifer was being pumped.					
1989-09-05	119.67				
Note: A nearby site that taps the same aquifer had been pumped recently.					

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel
1989-08-02	107.34	
Note: A nearby site that taps the same aquifer was being pumped.		
1989-07-05	103.21	
Note: A nearby site that taps the same aquifer had been pumped recently.		
1989-06-05	83.30	
Note: A nearby site that taps the same aquifer had been pumped recently.		
1989-05-03	99.55	
Note: A nearby site that taps the same aquifer had been pumped recently.		
1989-04-05	74.31	
Note: A nearby site that taps the same aquifer had been pumped recently.		
1989-03-01	70.92	
Note: A nearby site that taps the same aquifer had been pumped recently.		
1989-02-08	73.05	
Note: A nearby site that taps the same aquifer had been pumped recently.		
1989-01-05	80.71	
Note: A nearby site that taps the same aquifer had been pumped recently.		
1988-12-05	83.70	
Note: A nearby site that taps the same aquifer had been pumped recently.		
1988-11-01	90.03	
Note: A nearby site that taps the same aquifer had been pumped recently.		
1988-10-06	108.10	
Note: A nearby site that taps the same aquifer had been pumped recently.		
1988-09-01	139.85	
Note: A nearby site that taps the same aquifer had been pumped recently.		
1988-08-02	157.44	
Note: A nearby site that taps the same aquifer had been pumped recently.		
1988-07-06	130.04	
Note: A nearby site that taps the same aquifer had been pumped recently.		
1988-06-14	129.04	
Note: A nearby site that taps the same aquifer had been pumped recently.		
1988-05-16	99.81	
Note: A nearby site that taps the same aquifer had been pumped recently.		
1988-04-26	119.22	
Note: A nearby site that taps the same aquifer had been pumped recently.		
1988-03-25	85.37	
1988-02-29	72.58	
Note: A nearby site that taps the same aquifer had been pumped recently.		
1988-01-29	81.69	
Note: A nearby site that taps the same aquifer was being pumped.		
1987-12-29	78.82	
1987-11-25	89.81	
Note: The site had been pumped recently.		
1987-10-24	119.80	
Note: A nearby site that taps the same aquifer had been pumped recently.		
1987-09-21	126.44	
Note: A nearby site that taps the same aquifer was being pumped.		
1987-06-24	156.67	
Note: A nearby site that taps the same aquifer was being pumped.		
1987-03-18	74.04	
Note: The site had been pumped recently.		
1986-12-09	88.63	
Note: The site had been pumped recently.		
1985-12-05	87.87	
Note: The site had been pumped recently.		
1985-09-13	125.98	
Note: The site was being pumped.		

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1985-06-04	97.17				
Note: The site had been pumped recently.					
1985-03-14	66.45				
1984-12-03	84.51				
Note: The site had been pumped recently.					
1984-10-01	158.70				
Note: A nearby site that taps the same aquifer was being pumped.					
1984-06-26	183.88				
Note: The site was being pumped.					
1984-03-14	184.38				
Note: The site had been pumped recently.					
1983-12-07	83.69				
Note: The site had been pumped recently.					
1983-10-03	98.98				
Note: The site had been pumped recently.					
1983-06-27	107.13				
Note: The site was being pumped.					
1983-03-23	61.06				
1982-12-01	87.96				
Note: The site had been pumped recently.					
1982-08-26	190.33				
Note: The site had been pumped recently.					
1982-06-30	114.75		1982-04-12	60.51	
1982-02-26	78.55				
Note: The site had been pumped recently.					
1981-11-24	134.30				
Note: A nearby site that taps the same aquifer was being pumped.					
1981-10-14	194.04				
Note: The site was being pumped.					
1981-09-15	147.23				
Note: A nearby site that taps the same aquifer was being pumped.					
1981-08-04	193.85				
Note: The site was being pumped.					
1981-07-10	170.51				
Note: A nearby site that taps the same aquifer was being pumped.					
1981-06-04	108.67		1981-04-08	58.98	
1981-03-10	65.05				
1981-02-18	91.52				
Note: The site was being pumped.					
1981-01-30	107.48				
Note: The site was being pumped.					
1980-12-10	84.66				
1980-11-04	130.18				
Note: A nearby site that taps the same aquifer was being pumped.					
1980-10-07	98.28				
Note: A nearby site that taps the same aquifer was being pumped.					
1980-09-02	91.28				
1980-07-31	96.35				
Note: The site was being pumped.					
1980-06-30	58.83		1980-05-14	51.49	
1980-04-08	52.82				
1980-02-29	84.20				
Note: The site was being pumped.					
1980-01-31	56.76		1979-12-26	61.56	
1979-10-16	69.67		1979-09-06	66.10	

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1979-08-09	94.58				
Note: The site was being pumped.					
1979-07-12	70.83				
1979-06-12	59.61				
Note: The site had been pumped recently.					
1979-05-09	85.53		1979-04-11	62.56	
1979-02-08	60.18		1979-01-09	61.44	
1978-10-03	70.55				
1978-09-08	96.28				
Note: The site was being pumped.					
1978-08-03	110.83				
Note: The site was being pumped.					
1978-03-08	106.61				
Note: The site was being pumped.					
1978-02-17	105.76				
Note: The site was being pumped.					
1978-01-26	106.45				
Note: The site was being pumped.					
1977-12-21	113.03				
Note: The site was being pumped.					
1977-11-22	109.45				
Note: A nearby site that taps the same aquifer was being pumped.					
1977-09-23	160.13				
Note: The site was being pumped.					
1977-08-26	104.60		1977-07-19	122.72	
1977-06-15	102.47		1977-05-23	108.59	
1977-05-02	113.24		1977-03-31	102.12	
1977-03-07	148.60				
Note: The site was being pumped.					
1977-02-03	106.05		1976-12-28	146.16	
1976-12-02	124.96		1976-11-03	111.94	
1976-10-08	146.14		1976-09-13	122.86	
1976-08-13	127.75				
Note: The site was being pumped.					
1976-07-15	165.23		1976-06-16	155.43	
1976-05-20	124.07		1976-04-22	89.38	
1976-03-24	158.48		1976-02-19	88.72	
1976-01-13	87.30		1975-12-11	117.87	
1975-11-07	153.69				
1975-09-24	206.88				
Note: The site was being pumped.					
1975-05-23	208.95				
Note: A nearby site that taps the same aquifer was being pumped.					
1975-04-23	192.39				
Note: A nearby site that taps the same aquifer was being pumped.					
1975-03-27	65.30		1975-03-04	65.13	
1973-03-30	54.02		1972-09-19	75.13	
1972-05-18	62.42		1971-10-29	67.32	
1971-09-28	82.19		1968-03-19	62.12	
1967-09-14	84.46		1967-03-29	66.95	
1966-09-27	93.69		1966-03-24	80.73	
1966-02-24	85.50				
Note: The site was being pumped.					
1966-01-24	76.50				
Note: The site was being pumped.					

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel
1965-12-27	73.20	
1965-08-19	93.38	
1965-05-04	80.17	
1965-02-17	77.01	
1965-01-14	101.33	
Note: The site was being pumped.		
1964-12-17	83.79	
1964-08-31	100.49	
1964-07-30	110.31	
Note: The site was being pumped.		
1964-07-02	113.20	
Note: The site was being pumped.		
1964-05-29	101.85	
1964-03-28	92.14	
Note: The site was being pumped.		
1964-02-28	115.60	
Note: The site was being pumped.		
1964-01-29	75.51	
1963-12-23	113.40	
Note: The site was being pumped.		
1963-12-02	80.41	
1963-09-26	96.05	
1963-08-27	125.84	
Note: The site was being pumped.		
1963-07-30	120.49	
Note: The site was being pumped.		
1963-05-28	77.38	
1963-02-12	77.09	
1963-01-07	101.14	
Note: The site was being pumped.		
1962-12-04	77.15	
1962-10-24	105.41	
Note: The site was being pumped.		
1962-09-24	109.33	
Note: The site was being pumped.		
1962-08-22	94.93	
1962-06-26	83.86	
1962-04-05	79.72	
1962-01-25	72.64	
1961-09-29	114.20	
Note: The site was being pumped.		
1961-08-16	102.32	
1961-07-11	119.42	
Note: The site was being pumped.		
1961-05-29	109.60	
Note: The site was being pumped.		
1961-04-20	74.51	
1961-02-08	64.62	
1960-12-08	69.76	
1960-10-25	104.00	
Note: The site was being pumped.		
1960-09-13	121.81	
Note: The site was being pumped.		
1960-08-19	120.95	
Note: The site was being pumped.		

Date	Feet below Surface	Feet to Sealevel
1965-10-15	85.11	
1965-07-07	91.56	
1965-03-30	80.09	
1964-10-15	96.34	
1964-04-29	79.95	
1963-10-24	83.15	
1963-05-02	71.21	
1962-07-17	88.21	
1962-05-23	76.71	
1962-03-06	65.78	
1961-03-07	67.14	
1961-01-17	70.46	

Ground-water levels, continued.

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1960-06-17	76.37		1960-05-16	72.78	
1960-05-14	66.07		1960-02-18	65.99	
1960-01-28	73.64		1960-01-22	72.88	
1959-11-05	73.35		1958-10-30	83.02	
1954-04-23	75.20		1953-11-20	75.50	
1953-06-05	72.50				

X86
West
1/2 - 1 Mile
Lower

CA WELLS **CADW60000021374**

Objectid:	21374
Latitude:	33.462
Longitude:	-117.1229
Site code:	334620N1171229W001
State well numbe:	08S02W19Q001S
Local well name:	’’
Well use id:	6
Well use descrip:	Unknown
County id:	33
County name:	Riverside
Basin code:	’9-5’
Basin desc:	Temecula Valley
Dwr region id:	80238
Dwr region:	Southern Region Office
Site id:	CADW60000021374

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
RADON

AREA RADON INFORMATION

State Database: CA Radon

Radon Test Results

Zipcode	Num Tests	> 4 pCi/L
92592	14	0

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.

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, available in select counties across the country, was obtained by EDR in 2003 & 2011 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

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

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

HYDROGEOLOGIC INFORMATION

AQUIFLOW^{R} Information System
Source: EDR proprietary database of groundwater flow information
EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit
Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
Telephone: 800-672-5559
SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Service, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)
This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

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.

RADON

State Database: CA Radon
Source: Department of Health Services
Telephone: 916-324-2208
Radon Database for California

Area Radon Information
Source: USGS
Telephone: 703-356-4020
The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones
Source: EPA
Telephone: 703-356-4020
Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

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

Pechanga Parkway

Pechanga Pkwy & Wolf Valley Rd

Temecula, CA 92592

Inquiry Number: 4692531.3

August 04, 2016

Certified Sanborn® Map Report

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

Certified Sanborn® Map Report

08/04/16

Site Name:

Pechanga Parkway
Pechanga Pkwy & Wolf Valley
Temecula, CA 92592
EDR Inquiry # 4692531.3

Client Name:

Marc Boogay Cons. Engineers
1584 Whispering Palm Drive
Oceanside, CA 92056
Contact: Marc Boogay

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

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

Certified Sanborn Results:

Certification # F7CB-4001-9840

PO # 16-0504

Project Pechanga Parkway

UNMAPPED PROPERTY

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

Sanborn® Library search results

Certification #: F7CB-4001-9840

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

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

The Sanborn Library LLC Since 1866™

Limited Permission To Make Copies

Marc Boogay Cons. Engineers (the client) is permitted to make up to FIVE photocopies of this Sanborn Map transmittal and each fire insurance map accompanying this report solely for the limited use of its customer. No one other than the client is authorized to make copies. Upon request made directly to an EDR Account Executive, the client may be permitted to make a limited number of additional photocopies. This permission is conditioned upon compliance by the client, its customer and their agents with EDR's copyright policy; a copy of which is available upon request.

Pechanga Parkway
Pechanga Pkwy & Wolf Valley Rd
Temecula, CA 92592

Inquiry Number: 4692531.5
August 17, 2016

The EDR-City Directory Image Report

Environmental Data Resources Inc

6 Armstrong Road
Shelton, CT 06484
800.352.0050
www.edrnet.com

TABLE OF CONTENTS

SECTION

Executive Summary

Findings

City Directory Images

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

EXECUTIVE SUMMARY

DESCRIPTION

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

RESEARCH SUMMARY

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

Year	*Target Street*	*Cross Street*	*Source*
2013	☑	☑	Cole Information Services
2008	☑	☐	Cole Information Services
2003	☑	☐	Cole Information Services
1999	☐	☐	Cole Information Services
1995	☐	☐	Cole Information Services
1992	☐	☐	Cole Information Services
1990	☐	☐	Haines Criss-Cross Directory
1985	☐	☐	Haines Criss-Cross Directory
1980	☐	☐	Haines Criss-Cross Directory
1975	☐	☐	Haines Criss-Cross Directory

RECORD SOURCES

EDR is licensed to reproduce certain City Directory works by the copyright holders of those works. The purchaser of this EDR City Directory Report may include it in report(s) delivered to a customer. Reproduction of City Directories without permission of the publisher or licensed vendor may be a violation of copyright.

FINDINGS

TARGET PROPERTY STREET

Pechanga Pkwy & Wolf Valley Rd
Temecula, CA 92592

Year	*CD Image*	*Source*	
PECHANGA PKWY			
2013	pg A2	Cole Information Services	
2008	pg A3	Cole Information Services	
2003	pg A4	Cole Information Services	
1999	-	Cole Information Services	Target and Adjoining not listed in Source
1995	-	Cole Information Services	Target and Adjoining not listed in Source
1992	-	Cole Information Services	Target and Adjoining not listed in Source
1990	-	Haines Criss-Cross Directory	Street not listed in Source
1985	-	Haines Criss-Cross Directory	Street not listed in Source
1980	-	Haines Criss-Cross Directory	Street not listed in Source
1975	-	Haines Criss-Cross Directory	Street not listed in Source

FINDINGS

CROSS STREETS

Year	*CD Image*	*Source*	
MURDOCK LN			
2013	pg. A1	Cole Information Services	
2008	-	Cole Information Services	Target and Adjoining not listed in Source
2003	-	Cole Information Services	Target and Adjoining not listed in Source
1999	-	Cole Information Services	Target and Adjoining not listed in Source
1995	-	Cole Information Services	Target and Adjoining not listed in Source
1992	-	Cole Information Services	Target and Adjoining not listed in Source
1990	-	Haines Criss-Cross Directory	Street not listed in Source
1985	-	Haines Criss-Cross Directory	Street not listed in Source
1980	-	Haines Criss-Cross Directory	Street not listed in Source
1975	-	Haines Criss-Cross Directory	Street not listed in Source
W CREEK RD			
2013	-	Cole Information Services	Target and Adjoining not listed in Source
2008	-	Cole Information Services	Target and Adjoining not listed in Source
2003	-	Cole Information Services	Target and Adjoining not listed in Source
1999	-	Cole Information Services	Target and Adjoining not listed in Source
1995	-	Cole Information Services	Target and Adjoining not listed in Source
1992	-	Cole Information Services	Target and Adjoining not listed in Source
W CREEK RD			
1990	-	Haines Criss-Cross Directory	Street not listed in Source
1985	-	Haines Criss-Cross Directory	Street not listed in Source
1980	-	Haines Criss-Cross Directory	Street not listed in Source
1975	-	Haines Criss-Cross Directory	Street not listed in Source
WOLF CREEK DR S			
2013	-	Cole Information Services	Target and Adjoining not listed in Source
2008	-	Cole Information Services	Target and Adjoining not listed in Source
2003	-	Cole Information Services	Target and Adjoining not listed in Source
1999	-	Cole Information Services	Target and Adjoining not listed in Source

FINDINGS

Year	***CD Image***	***Source***	
1995	-	Cole Information Services	Target and Adjoining not listed in Source
1992	-	Cole Information Services	Target and Adjoining not listed in Source
1990	-	Haines Criss-Cross Directory	Street not listed in Source
1985	-	Haines Criss-Cross Directory	Street not listed in Source
1980	-	Haines Criss-Cross Directory	Street not listed in Source
1975	-	Haines Criss-Cross Directory	Street not listed in Source

City Directory Images

Target Street	Cross Street	Source
-	✓	Cole Information Services

MURDOCK LN 2013

31786	GARY KOSTEMAJ
31790	HENRY GRAYS
31798	ANDREA JAOUHARI
31806	DALINA PHUNG
31810	LOVELL LIM
31814	LAWRENCE PALOMO

Target Street	Cross Street	Source
✓	-	Cole Information Services

PECHANGA PKWY 2013

44564	HAZIT MINI MARKET
	SUNNYHILLS TOWING
	TEMECULA CREEK RV STORAGE
44618	U STORE IT SELF STORAGE OF TEMECULA
45000	PECHANGA ENTERTAINMENT CENTER
	PECHANGA RESORT & CASINO
	PECHANGA SERVICE STATION

Target Street	Cross Street	Source
✓	-	Cole Information Services

PECHANGA PKWY 2008

44564	HAZIT MINI MART
44618	U HAUL CO
	U STORE IT
	USTOREIT MINI WAREHOUSE
45000	PECHANGA DEVELOPMENT CORP
	PECHANGA INDIAN RESERVATION
	PECHANGA SERVICE STATION
	PERINI BUILDING CO INC

Target Street	Cross Street	Source
✓	-	Cole Information Services

PECHANGA PKWY 2003

44564	GIUMARRA OF ESCONCIDO
44618	OCCUPANT UNKNOWN
	U HAUL CO
	U STORE
45000	AHERN RENTALS
	ALLIANCE ROOFING
	PECHANGA DEVELOPMENT CORP
	PECHANGA ENTERTAINMENT CTR
	PECHANGA RV RESORT
	PECHANGA SERVICE STATION
	SHERWOOD MECHANICAL INC
45600	OCCUPANT UNKNOWN

APPENDIX VII AUTHOR'S CREDENTIALS, SELECTED CITY/COUNTY DOCUMENTS, DOCUMENTS PROVIDED BY THE CLIENT

Curriculum Vitae, Marc Boogay

1584 Whispering Palm Drive, Oceanside 92056; phone 760.407.4000

Experience

Over thirty years of experience in environmental assessment and teaching in Southern California counties including research, site inspection, review of manufacturing processes and commercial site usage. Site assessment familiarity includes regulations and regulatory practice concerning soil/groundwater contamination and remediation/monitoring requirements; teaching experience includes mathematics, science, and aviation.

Experience including designing, maintaining and regulatory requirements for sanitary landfills, landfill monitoring and closure reports, and soil-gas monitoring to assess risks for methane and volatile vapors as might intrude into structural spaces of buildings near a landfill.

Phase II site assessments have included soil, soil-gas, and groundwater sampling for assessment of many sites in Southern California, preparation of work plans to county Department of Environmental Health standards, estimations for risk assessment.

Experience with site-remediation includes comparisons of alternative strategies, project design, negotiation for approvals by regulatory agencies, and progress monitoring and follow-up studies; preparation of reports through case-closure status on several sites.

Teaching experience as adjunct-professor with undergraduate classes entitled, *Business Mathematics*, *General Science*, *Advanced Aerodynamics*, *Advanced Aircraft Systems*.

Registrations-

- Registered Professional Engineer, Civil Engineering, California, No. 27718.
- Registered Professional Engineer, Civil Engineering, Arizona, No. 25146.
- Registered Professional Engineer, Mechanical Engineering, California, No. 19245.
- Registered Environmental Assessor, California, No. 478 (through to decommissioning of this state registration in 2011).
- Certified Asbestos Inspector, California, No. 92-0662; AHERA Management Planner, Contractor Supervisor, United States EPA. Berkeley Extension Certificate No. 804.
- Contractor's Licenses: *General Building*, *General Engineering*, *Hazardous Substances Removal and Remedial Actions* Certificates, California, all under License No. 491501 certificates in inactive status.

Claudia M. Padilla

From:	marc@boogay.com
Sent:	Monday, August 08, 2016 4:23 PM
To:	'Lindsey Fletcher'
Cc:	'Claudia M. Padilla'
Subject:	FW: Phase I Environmental Site Assessment
Attachments:	3687_001.pdf; Wolf Valley 1946.jpg; Wolf Valley Faults.jpg; CYG0116 FINAL 07 16 15 1511.pdf

From: Lindsey Fletcher [mailto:lfletcher@pechanga-nsn.gov]
Sent: Monday, August 08, 2016 9:11 AM
To: marc@boogay.com
Cc: Andrea Fernandez
Subject: RE: Phase I Environmental Site Assessment

Marc,

How did the site visit go on Friday?

Attached please find the following to assist with the Phase I:

- Environmental Questionnaire completed by Pechanga's Environmental Director, Kelcey Stricker.
- Aerial photo of the parcels from 1947. To our knowledge, this land was farming and grazing land before the surrounding development was implemented. To our knowledge, no structures have been placed on the property between that time and current.
- Map showing nearby faults for seismic/geological activities.
- Information regarding the illegal dumping and clean-up of mud by Horizon Underground, Inc. In late June 2015, Pechanga staff observed Horizon Underground, Inc. illegally dumping soil onto the Wolf Valley Property. Horizon was performing construction work at nearby Great Oak High School. Our Environmental Department sampled the dumped soil and had it tested (see attached test results). Pechanga was able to compel Horizon to remove the dumped soil. Pechanga's staff observed the clean-up, which took place on July 22, 2015.

Please let me know if you need anything else.

Regards,

Lindsey Fletcher
Associate General Counsel
Pechanga Indian Reservation
Direct Tel: (951) 770-6176
Cell: (951) 296-8915

From: marc@boogay.com [mailto:marc@boogay.com]
Sent: Wednesday, August 03, 2016 11:16 AM
To: Lindsey Fletcher <lfletcher@pechanga-nsn.gov>
Subject: RE: Phase I Environmental Site Assessment

Pechanga Tribal Government

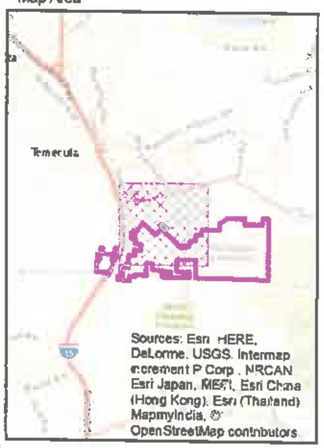
Wolf Valley Parcels

Faults
Wolf Valley Parcels

Pechanga USGS Quadrangle
Section 20 & 29 T8SR2W

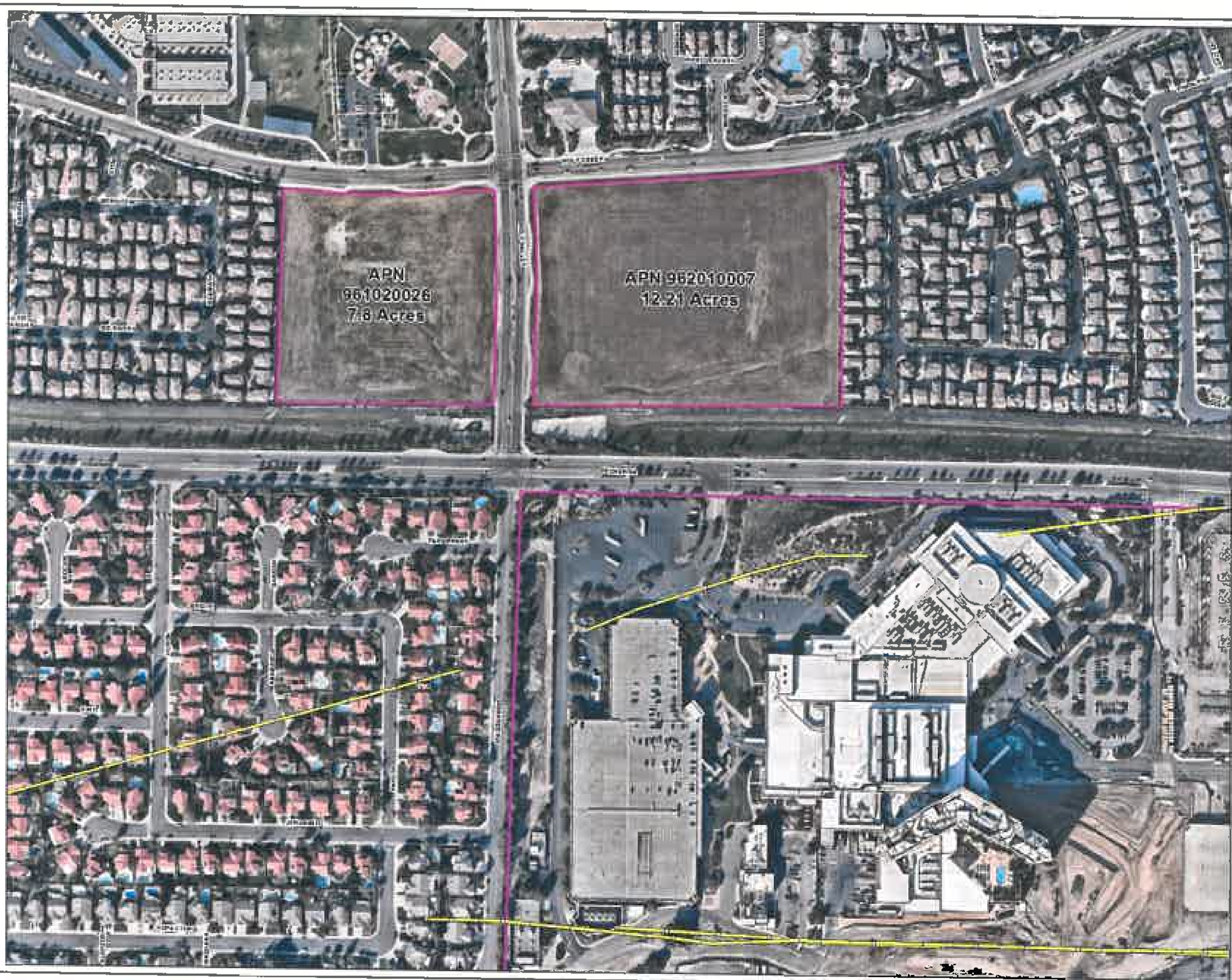
0 250 500 Feet
1 inch = 250 feet

Map Area



2016ENV 0604 Wolf ValleyFaults

Printed: 6/4/2016 02:23 PM



Pechanga Tribal Government

Wolf Valley Parcels

1946 Aerial Image

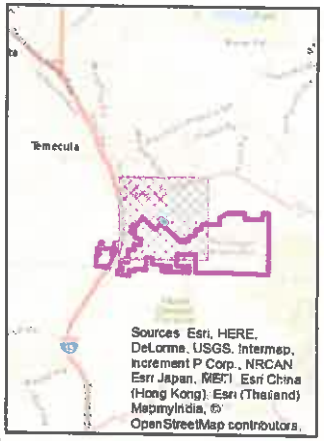
Wolf Valley Parcels

Pechanga USGS Quadrangle
Section 20 & 29 T8SR2W

0 200 400 Feet

1 inch = 200 feet

Map Area



2016ENV 0804 Wolf Valley4P

Printed: 8/4/2016 02:31 PM

CALIFORNIA LABORATORY SERVICES

3249 Fitzgerald Road Rancho Cordova, CA 95742

July 16, 2015

CLS Work Order #: CYG0116
COC #:

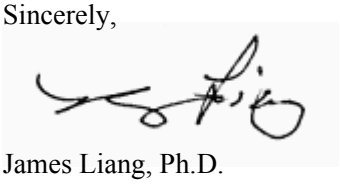
Kelcey Stricker
Pechanga Environmental Department
P.O Box 1477
Temecula, CA -

Project Name: Pechanga Environmental Dept

Enclosed are the results of analyses for samples received by the laboratory on 07/02/15 17:29. Samples were analyzed pursuant to client request utilizing EPA or other ELAP approved methodologies. I certify that the results are in compliance both technically and for completeness.

Analytical results are attached to this letter. Please call if we can provide additional assistance.

Sincerely,



James Liang, Ph.D.
Laboratory Director

CA DOHS ELAP Accreditation/Registration number 1233

CALIFORNIA LABORATORY SERVICES

Pechanga Environmental Department
P.O Box 1477
Temecula, CA -

Project: Pechanga Environmental Dept
Project Number: [none]
Project Manager: Kelcey Stricker

CLS Work Order #: CYG0116
COC #:

CALIFORNIA LABORATORY SERVICES CHAIN OF CUSTODY CLS ID. NO. CYG0116 (of)

Report To:	Client Job Number
KStricker@pechanga-nsn.gov	Destination Laboratory
Project Manager: Kelcey Stricker	☑ CLS (916) 638-7301 3249 Fitzgerald Road Rancho Cordova, CA 95742 www.californialab.com
Project Name: Pechanga Environmental Dept	☐ OTHER
Sampled By: Edmundo Hernandez	
Job Description: Waste Profile	
Site Location: Wolf Valley Property	

ANALYSIS REQUESTED

PRESERVATIVES ▼

DATE	TIME	SAMPLE IDENTIFICATION	FIELD ID.	MATRIX	CONTAINER NO.	CONTAINER TYPE	CAM17 TTLC	TPHg/VOCs	TPHd range	Surfactants	TURNAROUND TIME IN DAYS 1	2	5	10	SPECIAL INSTRUCTIONS
6/26	4:00pm	Sample #1					8	8	8	X			X		
6/26	4:00pm	Sample #2					X	X	X	X			X		

GEOTRACKER
EDF REPORT ☐ YES ☐ NO
GLOBAL ID:
FIELD CONDITIONS:

INVOICE TO:
Kelcey Stricker
Pechanga Indian Reservation
P.O. Box 1477, Temecula CA
PO#
QUOTE#

SUSPECTED CONSTITUENTS | SAMPLE RETENTION TIME | PRESERVATIVES (1) HCL (2) HNO3 (3) = COLD (4) = H2SO4

RELINQUISHED BY (Signature)	PRINT NAME/COMPANY	DATE/TIME	RECEIVED BY (Signature)	PRINT NAME/COMPANY
Edmundo Hernandez	Edmundo Hernandez / Pechanga Environmental Dept	6/29/15 2:45		

RECEIVED AT LAB BY: DATE/TIME: 7/2/15 1229 CONDITIONS/COMMENTS: (7.2)

SHIPPED BY: ☐ FED EX ☐ UPS ☐ OTHER AIR BILL #

Pechanga Environmental Department
P.O Box 1477
Temecula, CA -

Project: Pechanga Environmental Dept
Project Number: [none]
Project Manager: Kelcey Stricker

CLS Work Order #: CYG0116
COC #:

CAM 17 Metals

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sample 1 (CYG0116-01) Soil Sampled: 06/26/15 16:00 Received: 07/02/15 17:29									
Antimony	ND	2.5	mg/kg	1	CY04546	07/06/15	07/06/15	EPA 6010B	
Arsenic	ND	2.0	"	10	"	"	07/06/15	EPA 6020	
Barium	**120**	1.0	"	1	"	"	07/06/15	EPA 6010B	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	1.0	"	"	"	"	"	"	
Chromium	**18**	1.0	"	"	"	"	"	"	
Cobalt	**6.9**	1.0	"	"	"	"	"	"	
Copper	**19**	1.0	"	"	"	"	"	"	
Lead	ND	2.5	"	"	"	"	"	"	
Mercury	ND	0.10	"	"	CY04544	07/06/15	07/06/15	EPA 7471A	
Molybdenum	ND	1.0	"	"	CY04546	07/06/15	07/06/15	EPA 6010B	
Nickel	**9.1**	1.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	10	"	"	07/06/15	EPA 6020	
Silver	ND	1.0	"	1	"	"	07/06/15	EPA 6010B	
Thallium	ND	2.0	"	10	"	"	07/06/15	EPA 6020	
Vanadium	**32**	1.0	"	1	"	"	07/06/15	EPA 6010B	
Zinc	**36**	1.0	"	"	"	"	"	"	
Sample 2 (CYG0116-02) Soil Sampled: 06/26/15 16:00 Received: 07/02/15 17:29									
Antimony	ND	2.5	mg/kg	1	CY04546	07/06/15	07/06/15	EPA 6010B	
Arsenic	ND	2.0	"	10	"	"	07/06/15	EPA 6020	
Barium	**120**	1.0	"	1	"	"	07/06/15	EPA 6010B	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	1.0	"	"	"	"	"	"	
Chromium	**19**	1.0	"	"	"	"	"	"	
Cobalt	**5.7**	1.0	"	"	"	"	"	"	
Copper	**19**	1.0	"	"	"	"	"	"	
Lead	ND	2.5	"	"	"	"	"	"	
Mercury	ND	0.10	"	"	CY04544	07/06/15	07/06/15	EPA 7471A	
Molybdenum	ND	1.0	"	"	CY04546	07/06/15	07/06/15	EPA 6010B	
Nickel	**8.7**	1.0	"	"	"	"	"	"	

Pechanga Environmental Department
P.O Box 1477
Temecula, CA -

Project: Pechanga Environmental Dept
Project Number: [none]
Project Manager: Kelcey Stricker

CLS Work Order #: CYG0116
COC #:

CAM 17 Metals

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sample 2 (CYG0116-02) Soil Sampled: 06/26/15 16:00 Received: 07/02/15 17:29									
Selenium	ND	5.0	mg/kg	10	CY04546	"	07/06/15	EPA 6020	
Silver	ND	1.0	"	1	"	"	07/06/15	EPA 6010B	
Thallium	ND	2.0	"	10	"	"	07/06/15	EPA 6020	
Vanadium	**33**	1.0	"	1	"	"	07/06/15	EPA 6010B	
Zinc	**39**	1.0	"	"	"	"	"	"	

Pechanga Environmental Department
P.O Box 1477
Temecula, CA -

Project: Pechanga Environmental Dept
Project Number: [none]
Project Manager: Kelcey Stricker

CLS Work Order #: CYG0116
COC #:

Conventional Chemistry Parameters by APHA/EPA Methods

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sample 1 (CYG0116-01) Soil Sampled: 06/26/15 16:00 Received: 07/02/15 17:29									
MBAS as LAS, mol wt 340	ND	1.0	mg/kg	1	CY04608	07/08/15	07/08/15	SM5540 C	
Sample 2 (CYG0116-02) Soil Sampled: 06/26/15 16:00 Received: 07/02/15 17:29									
MBAS as LAS, mol wt 340	**7.0**	1.0	mg/kg	1	CY04608	07/08/15	07/08/15	SM5540 C	

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Project Manager: Kelcey Stricker

CLS Work Order #: CYG0116
COC #:

Extractable Petroleum Hydrocarbons by EPA Method 8015M

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sample 1 (CYG0116-01) Soil Sampled: 06/26/15 16:00 Received: 07/02/15 17:29									
Diesel	ND	1.0	mg/kg	1	CY04540	07/06/15	07/07/15	EPA 8015M	
Surrogate: o-Terphenyl		*92 %*	*65-135*		"	"	"	"	
Sample 2 (CYG0116-02) Soil Sampled: 06/26/15 16:00 Received: 07/02/15 17:29									
Diesel	ND	1.0	mg/kg	1	CY04540	07/06/15	07/07/15	EPA 8015M	
Surrogate: o-Terphenyl		*94 %*	*65-135*		"	"	"	"	

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Project Manager: Kelcey Stricker

CLS Work Order #: CYG0116
COC #:

TPH-Gasoline by GC/MS

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sample 1 (CYG0116-01) Soil Sampled: 06/26/15 16:00 Received: 07/02/15 17:29									
Gasoline	ND	0.20	mg/kg	1	CY04599	07/08/15	07/08/15	EPA 8260M	
Surrogate: Toluene-d8		*93 %*		*65-135*		"	"	"	"
Sample 2 (CYG0116-02) Soil Sampled: 06/26/15 16:00 Received: 07/02/15 17:29									
Gasoline	ND	0.20	mg/kg	1	CY04599	07/08/15	07/08/15	EPA 8260M	
Surrogate: Toluene-d8		*90 %*		*65-135*		"	"	"	"

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CLS Work Order #: CYG0116
COC #:

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sample 1 (CYG0116-01) Soil Sampled: 06/26/15 16:00 Received: 07/02/15 17:29									
1,1,1,2-Tetrachloroethane	ND	5.0	µg/kg	1	CY04599	07/08/15	07/08/15	EPA 8260B	
1,1,1-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	5.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	5.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	10	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	
2-Butanone	ND	100	"	"	"	"	"	"	
2-Hexanone	ND	50	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	50	"	"	"	"	"	"	
Acetone	ND	100	"	"	"	"	"	"	
Benzene	ND	5.0	"	"	"	"	"	"	
Bromobenzene	ND	5.0	"	"	"	"	"	"	
Bromochloromethane	ND	5.0	"	"	"	"	"	"	
Bromodichloromethane	ND	5.0	"	"	"	"	"	"	

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Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sample 1 (CYG0116-01) Soil Sampled: 06/26/15 16:00 Received: 07/02/15 17:29									
Bromoform	ND	5.0	µg/kg	1	CY04599	"	07/08/15	EPA 8260B	
Bromomethane	ND	10	"	"	"	"	"	"	
Carbon tetrachloride	ND	5.0	"	"	"	"	"	"	
Chlorobenzene	ND	5.0	"	"	"	"	"	"	
Chloroethane	ND	5.0	"	"	"	"	"	"	
Chloroform	ND	5.0	"	"	"	"	"	"	
Chloromethane	ND	10	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	
Dibromochloromethane	ND	5.0	"	"	"	"	"	"	
Dibromomethane	ND	5.0	"	"	"	"	"	"	
Dichlorodifluoromethane (Freon 12)	ND	10	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
Hexachlorobutadiene	ND	5.0	"	"	"	"	"	"	
Isopropylbenzene	ND	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Methylene chloride	ND	20	"	"	"	"	"	"	
Naphthalene	ND	5.0	"	"	"	"	"	"	
n-Butylbenzene	ND	5.0	"	"	"	"	"	"	
n-Propylbenzene	ND	5.0	"	"	"	"	"	"	
o-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
p-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	5.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Styrene	ND	5.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Tetrachloroethene	ND	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	
Trichloroethene	ND	5.0	"	"	"	"	"	"	

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Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sample 1 (CYG0116-01) Soil Sampled: 06/26/15 16:00 Received: 07/02/15 17:29									
Trichlorofluoromethane	ND	5.0	µg/kg	1	CY04599	"	07/08/15	EPA 8260B	
Vinyl chloride	ND	10	"	"	"	"	"	"	QC-2H
Xylenes (total)	ND	10	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*118 %*		*50-125*		*"*	*"*	*"*	
Surrogate: 4-Bromofluorobenzene		*111 %*		*50-128*		*"*	*"*	*"*	
Surrogate: Toluene-d8		*93 %*		*62-125*		*"*	*"*	*"*	
Sample 2 (CYG0116-02) Soil Sampled: 06/26/15 16:00 Received: 07/02/15 17:29									
1,1,1,2-Tetrachloroethane	ND	5.0	µg/kg	1	CY04599	07/08/15	07/08/15	EPA 8260B	
1,1,1-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	5.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	5.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	10	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	

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Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sample 2 (CYG0116-02) Soil Sampled: 06/26/15 16:00 Received: 07/02/15 17:29									
2,2-Dichloropropane	ND	5.0	µg/kg	1	CY04599	"	07/08/15	EPA 8260B	
2-Butanone	ND	100	"	"	"	"	"	"	
2-Hexanone	ND	50	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	50	"	"	"	"	"	"	
Acetone	ND	100	"	"	"	"	"	"	
Benzene	ND	5.0	"	"	"	"	"	"	
Bromobenzene	ND	5.0	"	"	"	"	"	"	
Bromochloromethane	ND	5.0	"	"	"	"	"	"	
Bromodichloromethane	ND	5.0	"	"	"	"	"	"	
Bromoform	ND	5.0	"	"	"	"	"	"	
Bromomethane	ND	10	"	"	"	"	"	"	
Carbon tetrachloride	ND	5.0	"	"	"	"	"	"	
Chlorobenzene	ND	5.0	"	"	"	"	"	"	
Chloroethane	ND	5.0	"	"	"	"	"	"	
Chloroform	ND	5.0	"	"	"	"	"	"	
Chloromethane	ND	10	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	
Dibromochloromethane	ND	5.0	"	"	"	"	"	"	
Dibromomethane	ND	5.0	"	"	"	"	"	"	
Dichlorodifluoromethane (Freon 12)	ND	10	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
Hexachlorobutadiene	ND	5.0	"	"	"	"	"	"	
Isopropylbenzene	ND	5.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Methylene chloride	ND	20	"	"	"	"	"	"	
Naphthalene	ND	5.0	"	"	"	"	"	"	
n-Butylbenzene	ND	5.0	"	"	"	"	"	"	
n-Propylbenzene	ND	5.0	"	"	"	"	"	"	
o-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
p-Chlorotoluene	ND	5.0	"	"	"	"	"	"	

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Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sample 2 (CYG0116-02) Soil Sampled: 06/26/15 16:00 Received: 07/02/15 17:29									
p-Isopropyltoluene	ND	5.0	µg/kg	1	CY04599	"	07/08/15	EPA 8260B	
sec-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Styrene	ND	5.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Tetrachloroethene	ND	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	
Trichloroethene	ND	5.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.0	"	"	"	"	"	"	
Vinyl chloride	ND	10	"	"	"	"	"	"	QC-2H
Xylenes (total)	ND	10	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*121 %*		*50-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*111 %*		*50-128*	"	"	"	"	
Surrogate: Toluene-d8		*90 %*		*62-125*	"	"	"	"	

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CAM 17 Metals - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch CY04544 - EPA 7471A										
Blank (CY04544-BLK1)				Prepared & Analyzed: 07/06/15						
Mercury	ND	0.10	mg/kg							
LCS (CY04544-BS1)				Prepared & Analyzed: 07/06/15						
Mercury	0.269	0.10	mg/kg	0.250		108	75-125			
Matrix Spike (CY04544-MS1)		**Source: CYG0099-01**		Prepared & Analyzed: 07/06/15						
Mercury	0.320	0.10	mg/kg	0.250	0.0104	124	75-125			
Matrix Spike Dup (CY04544-MSD1)		**Source: CYG0099-01**		Prepared & Analyzed: 07/06/15						
Mercury	0.332	0.10	mg/kg	0.250	0.0104	128	75-125	4	25	QM-5
Batch CY04546 - EPA 3050B										
Blank (CY04546-BLK1)				Prepared & Analyzed: 07/06/15						
Antimony	ND	2.5	mg/kg							
Arsenic	ND	0.20	"							
Barium	ND	1.0	"							
Selenium	ND	0.50	"							
Beryllium	ND	1.0	"							
Thallium	0.236	0.20	"							QB-2
Cadmium	ND	1.0	"							
Cobalt	ND	1.0	"							
Chromium	ND	1.0	"							
Copper	ND	1.0	"							
Lead	ND	2.5	"							
Molybdenum	ND	1.0	"							
Nickel	ND	1.0	"							
Silver	ND	1.0	"							
Vanadium	ND	1.0	"							
Zinc	ND	1.0	"							

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CAM 17 Metals - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch CY04546 - EPA 3050B										
LCS (CY04546-BS1)				Prepared & Analyzed: 07/06/15						
Antimony	94.3	2.5	mg/kg	100		94	75-125			
Arsenic	90.1	2.0	"	100		90	75-125			
Arsenic	97.0	1.0	"	100		97	75-125			
Selenium	91.2	5.0	"	100		91	75-125			
Barium	95.0	1.0	"	100		95	75-125			
Beryllium	95.9	1.0	"	100		96	75-125			
Thallium	98.1	2.0	"	100		98	75-125			
Cadmium	102	1.0	"	100		102	75-125			
Cobalt	95.6	1.0	"	100		96	75-125			
Chromium	102	1.0	"	100		102	75-125			
Copper	100	1.0	"	100		100	75-125			
Lead	99.7	2.5	"	100		100	75-125			
Molybdenum	97.9	1.0	"	100		98	75-125			
Nickel	96.8	1.0	"	100		97	75-125			
Selenium	93.7	2.5	"	100		94	75-125			
Silver	70.1	1.0	"	100		70	75-125			QM-1
Thallium	106	4.0	"	100		106	75-125			
Vanadium	92.5	1.0	"	100		93	75-125			
Zinc	95.0	1.0	"	100		95	75-125			
Matrix Spike (CY04546-MS1)	**Source: CYG0099-01**			Prepared & Analyzed: 07/06/15						
Antimony	36.0	2.5	mg/kg	100	ND	36	75-125			QM-5
Arsenic	89.0	2.0	"	100	1.44	88	75-125			
Arsenic	88.8	1.0	"	100	1.43	87	75-125			
Barium	149	1.0	"	100	58.2	91	75-125			
Selenium	87.4	5.0	"	100	0.210	87	75-125			
Beryllium	86.3	1.0	"	100	ND	86	75-125			
Thallium	96.4	2.0	"	100	2.13	94	75-125			
Cadmium	92.0	1.0	"	100	ND	92	75-125			
Cobalt	91.2	1.0	"	100	4.52	87	75-125			
Chromium	98.3	1.0	"	100	8.70	90	75-125			

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Project: Pechanga Environmental Dept
Project Number: [none]
Project Manager: Kelcey Stricker

CLS Work Order #: CYG0116
COC #:

CAM 17 Metals - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch CY04546 - EPA 3050B										
Matrix Spike (CY04546-MS1)	**Source: CYG0099-01**			Prepared & Analyzed: 07/06/15						
Copper	100	1.0	mg/kg	100	13.1	87	75-125			
Lead	84.1	2.5	"	100	ND	84	75-125			
Molybdenum	83.1	1.0	"	100	ND	83	75-125			
Nickel	97.3	1.0	"	100	8.63	89	75-125			
Selenium	79.3	2.5	"	100	ND	79	75-125			
Silver	80.6	1.0	"	100	ND	81	75-125			
Thallium	81.6	4.0	"	100	ND	82	75-125			
Vanadium	116	1.0	"	100	30.7	85	75-125			
Zinc	107	1.0	"	100	23.4	84	75-125			
Matrix Spike Dup (CY04546-MSD1)	**Source: CYG0099-01**			Prepared & Analyzed: 07/06/15						
Arsenic	87.8	2.0	mg/kg	100	1.44	86	75-125	1	30	
Antimony	35.9	2.5	"	100	ND	36	75-125	0.1	30	QM-5
Arsenic	88.3	1.0	"	100	1.43	87	75-125	0.6	30	
Barium	147	1.0	"	100	58.2	89	75-125	2	30	
Selenium	87.7	5.0	"	100	0.210	88	75-125	0.3	30	
Beryllium	87.0	1.0	"	100	ND	87	75-125	0.8	30	
Thallium	93.1	2.0	"	100	2.13	91	75-125	3	30	
Cadmium	91.7	1.0	"	100	ND	92	75-125	0.4	30	
Cobalt	91.1	1.0	"	100	4.52	87	75-125	0.01	30	
Chromium	98.5	1.0	"	100	8.70	90	75-125	0.2	30	
Copper	99.9	1.0	"	100	13.1	87	75-125	0.4	30	
Lead	83.7	2.5	"	100	ND	84	75-125	0.4	30	
Molybdenum	82.8	1.0	"	100	ND	83	75-125	0.3	30	
Nickel	95.8	1.0	"	100	8.63	87	75-125	2	30	
Selenium	78.9	2.5	"	100	ND	79	75-125	0.4	30	
Silver	78.5	1.0	"	100	ND	78	75-125	3	30	
Thallium	81.3	4.0	"	100	ND	81	75-125	0.4	30	
Vanadium	115	1.0	"	100	30.7	84	75-125	0.8	30	
Zinc	107	1.0	"	100	23.4	83	75-125	0.5	30	

Pechanga Environmental Department
P.O Box 1477
Temecula, CA -

Project: Pechanga Environmental Dept
Project Number: [none]
Project Manager: Kelcey Stricker

CLS Work Order #: CYG0116
COC #:

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch CY04608 - General Preparation										
Blank (CY04608-BLK1)				Prepared & Analyzed: 07/08/15						
MBAS as LAS, mol wt 340	ND	1.0	mg/kg							
LCS (CY04608-BS1)				Prepared & Analyzed: 07/08/15						
MBAS as LAS, mol wt 340	4.64	1.0	mg/kg	5.00		93	80-120			
LCS Dup (CY04608-BSD1)				Prepared & Analyzed: 07/08/15						
MBAS as LAS, mol wt 340	4.49	1.0	mg/kg	5.00		90	80-120	3	20	
Matrix Spike (CY04608-MS1)		**Source: CYG0116-02**		Prepared & Analyzed: 07/08/15						
MBAS as LAS, mol wt 340	11.8	1.0	mg/kg	5.00	6.99	96	75-125			
Matrix Spike Dup (CY04608-MSD1)		**Source: CYG0116-02**		Prepared & Analyzed: 07/08/15						
MBAS as LAS, mol wt 340	11.2	1.0	mg/kg	5.00	6.99	85	75-125	5	20	

Pechanga Environmental Department
P.O Box 1477
Temecula, CA -

Project: Pechanga Environmental Dept
Project Number: [none]
Project Manager: Kelcey Stricker

CLS Work Order #: CYG0116
COC #:

Extractable Petroleum Hydrocarbons by EPA Method 8015M - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch CY04540 - CA LUFT - orb shaker										
Blank (CY04540-BLK1)				Prepared: 07/06/15 Analyzed: 07/07/15						
Diesel	ND	1.0	mg/kg							
Motor Oil	ND	1.0	"							
Surrogate: o-Terphenyl	*0.503*		*"*	*0.500*		*101*	*65-135*			
LCS (CY04540-BS1)				Prepared: 07/06/15 Analyzed: 07/07/15						
Diesel	59.6	1.0	mg/kg	50.0		119	65-135			
Surrogate: o-Terphenyl	*0.568*		*"*	*0.500*		*114*	*65-135*			
LCS Dup (CY04540-BSD1)				Prepared: 07/06/15 Analyzed: 07/07/15						
Diesel	61.1	1.0	mg/kg	50.0		122	65-135	2	30	
Surrogate: o-Terphenyl	*0.590*		*"*	*0.500*		*118*	*65-135*			
Matrix Spike (CY04540-MS1)	**Source: CYG0099-01**			Prepared: 07/06/15 Analyzed: 07/07/15						
Diesel	65.3	1.0	mg/kg	50.0	ND	131	59-138			
Surrogate: o-Terphenyl	*0.573*		*"*	*0.500*		*115*	*65-135*			
Matrix Spike Dup (CY04540-MSD1)	**Source: CYG0099-01**			Prepared: 07/06/15 Analyzed: 07/07/15						
Diesel	66.7	1.0	mg/kg	50.0	ND	133	59-138	2	37	
Surrogate: o-Terphenyl	*0.580*		*"*	*0.500*		*116*	*65-135*			

Pechanga Environmental Department
P.O Box 1477
Temecula, CA -

Project: Pechanga Environmental Dept
Project Number: [none]
Project Manager: Kelcey Stricker

CLS Work Order #: CYG0116
COC #:

TPH-Gasoline by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch CY04599 - EPA 5030 Soil MS										
Blank (CY04599-BLK1)				Prepared & Analyzed: 07/08/15						
Gasoline	ND	0.20	mg/kg							
Surrogate: Toluene-d8	*0.0276*		*"*	*0.0300*		*92*	*65-135*			
LCS (CY04599-BS1)				Prepared & Analyzed: 07/08/15						
Gasoline	2.06	0.20	mg/kg	2.00		103	65-135			
Surrogate: Toluene-d8	*0.0286*		*"*	*0.0300*		*95*	*65-135*			
LCS Dup (CY04599-BSD1)				Prepared & Analyzed: 07/08/15						
Gasoline	2.12	0.20	mg/kg	2.00		106	65-135	3	30	
Surrogate: Toluene-d8	*0.0297*		*"*	*0.0300*		*99*	*65-135*			
Matrix Spike (CY04599-MS1)	**Source: CYG0178-05**			Prepared & Analyzed: 07/08/15						
Gasoline	2.51	0.20	mg/kg	2.00	ND	126	63-124			QM-7
Surrogate: Toluene-d8	*0.0315*		*"*	*0.0300*		*105*	*65-135*			
Matrix Spike Dup (CY04599-MSD1)	**Source: CYG0178-05**			Prepared & Analyzed: 07/08/15						
Gasoline	2.57	0.20	mg/kg	2.00	ND	128	63-124	2	35	QM-7
Surrogate: Toluene-d8	*0.0304*		*"*	*0.0300*		*101*	*65-135*			

Pechanga Environmental Department
P.O Box 1477
Temecula, CA -

Project: Pechanga Environmental Dept
Project Number: [none]
Project Manager: Kelcey Stricker

CLS Work Order #: CYG0116
COC #:

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch CY04599 - EPA 5030 Soil MS										
Blank (CY04599-BLK1)				Prepared & Analyzed: 07/08/15						
Acetone	ND	100	µg/kg							
Benzene	ND	5.0	"							
Bromobenzene	ND	5.0	"							
Bromochloromethane	ND	5.0	"							
Bromodichloromethane	ND	5.0	"							
Bromoform	ND	5.0	"							
Bromomethane	ND	10	"							
2-Butanone	ND	100	"							
n-Butylbenzene	ND	5.0	"							
sec-Butylbenzene	ND	5.0	"							
tert-Butylbenzene	ND	5.0	"							
Carbon tetrachloride	ND	5.0	"							
Chlorobenzene	ND	5.0	"							
Chloroethane	ND	5.0	"							
Chloroform	ND	5.0	"							
Chloromethane	ND	10	"							
o-Chlorotoluene	ND	5.0	"							
p-Chlorotoluene	ND	5.0	"							
Dibromochloromethane	ND	5.0	"							
1,2-Dibromo-3-chloropropane	ND	10	"							
1,2-Dibromoethane (EDB)	ND	5.0	"							
Dibromomethane	ND	5.0	"							
1,2-Dichlorobenzene	ND	5.0	"							
1,3-Dichlorobenzene	ND	5.0	"							
1,4-Dichlorobenzene	ND	5.0	"							
Dichlorodifluoromethane (Freon 12)	ND	10	"							
1,1-Dichloroethane	ND	5.0	"							
1,2-Dichloroethane	ND	5.0	"							
1,1-Dichloroethene	ND	5.0	"							
cis-1,2-Dichloroethene	ND	5.0	"							
trans-1,2-Dichloroethene	ND	5.0	"							

Pechanga Environmental Department
P.O Box 1477
Temecula, CA -

Project: Pechanga Environmental Dept
Project Number: [none]
Project Manager: Kelcey Stricker

CLS Work Order #: CYG0116
COC #:

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch CY04599 - EPA 5030 Soil MS										
Blank (CY04599-BLK1)				Prepared & Analyzed: 07/08/15						
1,2-Dichloropropane	ND	5.0	µg/kg							
1,3-Dichloropropane	ND	5.0	"							
2,2-Dichloropropane	ND	5.0	"							
1,1-Dichloropropene	ND	5.0	"							
cis-1,3-Dichloropropene	ND	5.0	"							
trans-1,3-Dichloropropene	ND	5.0	"							
Ethylbenzene	ND	5.0	"							
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	5.0	"							
Hexachlorobutadiene	ND	5.0	"							
2-Hexanone	ND	50	"							
Isopropylbenzene	ND	5.0	"							
p-Isopropyltoluene	ND	5.0	"							
Methylene chloride	ND	20	"							
4-Methyl-2-pentanone	ND	50	"							
Methyl tert-butyl ether	ND	5.0	"							
Naphthalene	ND	5.0	"							
n-Propylbenzene	ND	5.0	"							
Styrene	ND	5.0	"							
1,1,2,2-Tetrachloroethane	ND	5.0	"							
1,1,1,2-Tetrachloroethane	ND	5.0	"							
Tetrachloroethene	ND	5.0	"							
Toluene	ND	5.0	"							
1,2,3-Trichlorobenzene	ND	5.0	"							
1,2,4-Trichlorobenzene	ND	5.0	"							
1,1,2-Trichloroethane	ND	5.0	"							
1,1,1-Trichloroethane	ND	5.0	"							
Trichloroethene	ND	5.0	"							
Trichlorofluoromethane	ND	5.0	"							
1,2,3-Trichloropropane	ND	5.0	"							
1,3,5-Trimethylbenzene	ND	5.0	"							

Pechanga Environmental Department
P.O Box 1477
Temecula, CA -

Project: Pechanga Environmental Dept
Project Number: [none]
Project Manager: Kelcey Stricker

CLS Work Order #: CYG0116
COC #:

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch CY04599 - EPA 5030 Soil MS										
Blank (CY04599-BLK1)				Prepared & Analyzed: 07/08/15						
1,2,4-Trimethylbenzene	ND	5.0	µg/kg							
Vinyl chloride	ND	10	"							QC-2H
Xylenes (total)	ND	10	"							
Surrogate: 1,2-Dichloroethane-d4	*31.9*		*"*	*30.0*		*106*	*50-125*			
Surrogate: Toluene-d8	*27.6*		*"*	*30.0*		*92*	*62-125*			
Surrogate: 4-Bromofluorobenzene	*31.6*		*"*	*30.0*		*105*	*50-128*			
LCS (CY04599-BS1)				Prepared & Analyzed: 07/08/15						
Benzene	12.6	5.0	µg/kg	20.0		63	64-135			QM-1
Chlorobenzene	13.3	5.0	"	20.0		66	67-133			QM-1
1,1-Dichloroethene	13.0	5.0	"	20.0		65	53-137			
Toluene	12.1	5.0	"	20.0		61	61-138			
Trichloroethene	13.0	5.0	"	20.0		65	64-130			
Surrogate: 1,2-Dichloroethane-d4	*36.7*		*"*	*30.0*		*122*	*50-125*			
Surrogate: Toluene-d8	*28.6*		*"*	*30.0*		*95*	*62-125*			
Surrogate: 4-Bromofluorobenzene	*30.3*		*"*	*30.0*		*101*	*50-128*			
LCS Dup (CY04599-BSD1)				Prepared & Analyzed: 07/08/15						
Benzene	18.5	5.0	µg/kg	20.0		92	64-135	38	30	QD-5X
Chlorobenzene	19.0	5.0	"	20.0		95	67-133	35	30	QD-5X
1,1-Dichloroethene	20.1	5.0	"	20.0		100	53-137	43	30	QD-5X
Toluene	18.0	5.0	"	20.0		90	61-138	39	30	QD-5X
Trichloroethene	18.6	5.0	"	20.0		93	64-130	35	30	QD-5X
Surrogate: 1,2-Dichloroethane-d4	*31.4*		*"*	*30.0*		*105*	*50-125*			
Surrogate: Toluene-d8	*29.7*		*"*	*30.0*		*99*	*62-125*			
Surrogate: 4-Bromofluorobenzene	*30.5*		*"*	*30.0*		*102*	*50-128*			
Matrix Spike (CY04599-MS1)	**Source: CYG0178-05**			Prepared & Analyzed: 07/08/15						
Benzene	19.8	5.0	µg/kg	20.0	ND	99	58-139			
Chlorobenzene	18.5	5.0	"	20.0	ND	92	62-134			
1,1-Dichloroethene	21.5	5.0	"	20.0	ND	107	53-152			
Toluene	19.2	5.0	"	20.0	ND	96	58-139			

Pechanga Environmental Department
P.O Box 1477
Temecula, CA -

Project: Pechanga Environmental Dept
Project Number: [none]
Project Manager: Kelcey Stricker

CLS Work Order #: CYG0116
COC #:

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch CY04599 - EPA 5030 Soil MS										
Matrix Spike (CY04599-MS1)	**Source: CYG0178-05**			Prepared & Analyzed: 07/08/15						
Trichloroethene	36.2	5.0	µg/kg	20.0	ND	181	55-138			QM-7
Surrogate: 1,2-Dichloroethane-d4	*33.3*		*"*	*30.0*		*111*	*50-125*			
Surrogate: Toluene-d8	*31.5*		*"*	*30.0*		*105*	*62-125*			
Surrogate: 4-Bromofluorobenzene	*30.8*		*"*	*30.0*		*103*	*50-128*			
Matrix Spike Dup (CY04599-MSD1)	**Source: CYG0178-05**			Prepared & Analyzed: 07/08/15						
Benzene	18.3	5.0	µg/kg	20.0	ND	91	58-139	8	30	
Chlorobenzene	17.9	5.0	"	20.0	ND	89	62-134	3	30	
1,1-Dichloroethene	19.6	5.0	"	20.0	ND	98	53-152	9	30	
Toluene	17.9	5.0	"	20.0	ND	90	58-139	7	30	
Trichloroethene	33.6	5.0	"	20.0	ND	168	55-138	8	30	QM-7
Surrogate: 1,2-Dichloroethane-d4	*29.6*		*"*	*30.0*		*99*	*50-125*			
Surrogate: Toluene-d8	*30.4*		*"*	*30.0*		*101*	*62-125*			
Surrogate: 4-Bromofluorobenzene	*31.7*		*"*	*30.0*		*106*	*50-128*			

Pechanga Environmental Department	Project: Pechanga Environmental Dept	
P.O Box 1477	Project Number: [none]	**CLS Work Order #: CYG0116**
Temecula, CA -	Project Manager: Kelcey Stricker	COC #:

Notes and Definitions

QM-7	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS/LCSD recovery.
QM-5	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.
QM-1	The spike recovery was outside acceptance limits for the LCS or LCSD. The batch was accepted based on acceptable MS/MSD recoveries & RPD's.
QD-5X	The RPD was outside of the QC acceptance limit for the Duplicate due to that the analyte concentration is less than 5 times of the reporting limit. No correction action is needed.
QC-2H	The recovery of one CCV was greater than the acceptance limit. However, all analytes in the associated samples were ND; therefore a reanalysis was not performed.
QB-2	The analyte was detected in the method blank or calibration verfication blank. A re-analysis was not performed since all sample results for the analyte are ND.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit (or method detection limit when specified)
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

COUNTY OF RIVERSIDE
DEPARTMENT OF ENVIRONMENTAL HEALTH

REQUEST FOR RECORDS INFORMATION SHEET

The Hazardous Materials Management Branch is responsible for processing all requests for review and/or copies of records maintained by the Division. The following information is designed to assist the public in the access of those records.

1. All requests must be in writing and may be submitted by mail, fax, or over the counter.
2. Requests may be submitted on a plain sheet of standard letter size paper (8 ½" x 11"). They may be handwritten or typed.
3. Access to Hazardous Materials Management Branch records is by street address. We are currently unable to provide information about sites based on Assessor's Parcel Numbers or similar geographic site information.
4. Processing time is approximately 2–4 weeks.
5. All requests including those for review of records are only processed on a first come, first serve basis.
6. Hazardous Materials Handlers/Disclosure records are the ONLY records that must, by law, be made available at the counter. Some of the information contained in these records is of a sensitive nature and is not available to the public.
7. The cost of a record search is **$79.00** per unique site address. The cost is assigned to the search activity. It is the same for review only (with the exception of counter review of Handlers/Disclosure records only) and for searches where no records are found. Information is available for all programs managed by this Division.
8. The charge for copies is **$0.50** a page, **$0.10** each additional page.
9. There is a **$18.48** flat-rate charge for information available in list form per list.
10. The cost of mailing is included as a separate item when the copied files cannot be mailed in a standard envelope.
11. Requestors are invoiced at the end of processing for the cost of the service unless out-of-state or COD.
12. Requestors may elect to pickup completed requests at the Riverside Office. Invoices may be paid at the time of pickup.
13. Requestors should note that **NO INFORMATION REGARDING THE CONTENTS OF FILES IS PROVIDED VIA TELEPHONE**.

4065 County Circle Dr. Rm. 104
Riverside, CA 92503
(951 358-5055
(951) 358-5017 Fax

800 S. Sanderson Ave. Ste. 102
Hemet, CA 92545
(951) 766-6524
(951) 791-1778 Fax

47950 Arabia Street, Ste. A
Indio, CA 92201
(760) 863-8976
(760) 863-8303 Fax

2275 S. Main St. Ste. 204
Corona, CA 92882
(951) 273-9143
(951) 520-8319 Fax

3880 Lemon Street, Ste. 200
Riverside, CA 92501
(951) 955-8980
(951) 955-8988 Fax

Department Website: www.rivcoeh.org

County of Riverside

DEPARTMENT OF ENVIRONMENTAL HEALTH

www.rivcoeh.org

REQUEST FOR RECORDS

Land Use & Water Resources

PURSUANT TO CALIFORNIA GOVERNMENT CODE SECTION 6254 (F). RECORDS OF PENDING INVESTIGATION AND INFORMANTS NAMES, ADDRESSES AND TELEPHONE NUMBERS WILL NOT BE RELEASED.

REQUESTS WILL BE PROCESSED WITHIN TEN (10) BUSINESS DAYS PER CALIFORNIA GOVERNMENT CODE, SECTION 6256.

Send completed forms to one of the addresses or faxes below:

Western Riverside County
3880 Lemon St, Ste 200
Riverside, California, 92501
Phone: (951) 955-8980
Fax: (951) 955-8988
Email: landuse@rivcocha.org

Eastern Riverside County
47-950 Arabia St, Ste A
Indio, CA 92201
Phone: (760) 863-7570
Fax: (760) 863-7013

YOUR NAME: CLAUDIA M. PADILLA		DATE: 4 AUG 2016
MAILING ADDRESS: 1584 WHISPERING PALM DRIVE		PHONE: (760) 407-4000
CITY: OCEANSIDE	STATE: CA	ZIP: 92056
EMAIL ADDRESS: claudia@boogay.com		
INFORMATION REQUESTED: HAZARDOUS WASTE, UST, SPILL RECORDS		
SITE ADDRESS: VACANT		APN: 961-020-026
CITY: TEMECULA		ZIP: 92592
ESTIMATED INSTALLATION DATE OF WELL AND/OR SEPTIC SYSTEM: ____/____/____ (DAY / MONTH / YEAR)		

Cash and/or credit cards are the only accepted form of payment for records requests.

FOR OFFICE USE ONLY

PROCESSING AND REPRODUCTION FEES FOR RECORDS RESEARCHED MUST BE PAID UPON RECEIPT OF RECORDS AS FOLLOWS:

PROCESSING FEE $10.00 PER EACH QUARTER HOUR. TOTAL TIME: _____ = $ _____

FIRST PAGE @ $ .50 EACH ADDITIONAL PAGE @ $ .10 TOTAL NO. OF PAGES: _____ = $ _____

TOTAL: _____

REVIEWED BY _____ TITLE _____

RECORDS RECEIVED BY _____ DATE _____

County of Riverside

DEPARTMENT OF ENVIRONMENTAL HEALTH

www.rivcoeh.org

REQUEST FOR RECORDS

Land Use & Water Resources

PURSUANT TO CALIFORNIA GOVERNMENT CODE SECTION 6254 (F). RECORDS OF PENDING INVESTIGATION AND INFORMANTS NAMES, ADDRESSES AND TELEPHONE NUMBERS WILL NOT BE RELEASED.

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Riverside, California, 92501
Phone: (951) 955-8980
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Eastern Riverside County
47-950 Arabia St, Ste A
Indio, CA 92201
Phone: (760) 863-7570
Fax: (760) 863-7013

YOUR NAME: CLAUDIA M. PADILLA		DATE: 4 AUG 2016
MAILING ADDRESS: 1584 WHISPERING PALM DRIVE		PHONE: (760) 407-4000
CITY: OCEANSIDE	STATE: CA	ZIP: 92056
EMAIL ADDRESS: claudia@boogay.com		
INFORMATION REQUESTED: HAZARDOUS WASTE, UST, SPILL RECORDS		
SITE ADDRESS: VACANT		APN: 962-010-007
CITY: TEMECULA		ZIP: 92592
ESTIMATED INSTALLATION DATE OF WELL AND/OR SEPTIC SYSTEM: ___/___/___ (DAY / MONTH / YEAR)		

Cash and/or credit cards are the only accepted form of payment for records requests.

FOR OFFICE USE ONLY

PROCESSING AND REPRODUCTION FEES FOR RECORDS RESEARCHED MUST BE PAID UPON RECEIPT OF RECORDS AS FOLLOWS:

PROCESSING FEE $10.00 PER EACH QUARTER HOUR. TOTAL TIME: _____ = $_____

FIRST PAGE @ $ .50 EACH ADDITIONAL PAGE @ $ .10 TOTAL NO. OF PAGES: _____ = $_____

TOTAL: _____

REVIEWED BY _____ TITLE _____

RECORDS RECEIVED BY _____ DATE _____

Claudia M. Padilla

From: City of Temecula Open Records Center <temeculaca@mycusthelp.net>
Sent: Wednesday, August 10, 2016 4:01 PM
To: claudia@boogay.com
Subject: Public Records Center Update : W002165-080416 - Claudia Padilla:: W002165-080416

August 10, 2016

Re: Public Records Act Request Dated August 4, 2016

Dear Ms. Padilla,

The City is in receipt of your Public Records Act Request dated August 4, 2016, for any building permits and fire records related to APN numbers 961-020-026 and962-010-007. In accordance with Government Code Sections 6253(c) and 6255(b), this serves as the City's response to your request.

The City has conducted a thorough review of its files and has no documents responsive to your request.

Please free to contact our office if you have any further needs or questions.

Regards,

City of Temecula
Records Management Division
(951) 240-4225

Monitor your request and respond at: http://mygovhelp.info/TEMECULACA/_cs/supporthome.aspx?sSessionID=

Please DO NOT REPLY. This is an auto-generated email and has originated from an unmonitored email account.

APPENDIX E

PECHANGA FIRE DEPARTMENT LETTER

PECHANGA FIRE DEPARTMENT

2/9/22

Pechanga Fire Department provides fire suppression, emergency medical services (EMS), technical rescue, hazardous materials mitigation, fire prevention, vegetation management, public education, and disaster preparedness to the Pechanga Indian Reservation, approximately 10.6 square miles of southwestern Riverside County, California, along with mutual aid to adjacent jurisdictions. The department delivers emergency services with 31 full-time and 10 reserve personnel from two fire stations. Both stations are located within two miles of the proposed commercial development on Wolf Valley Road.

The department is managed by a fire chief, a division chief/fire marshal, three battalion chiefs, six fire captains, six fire apparatus engineers, twelve firefighter, a fire inspector, a permit technician, an emergency services coordinator, nine fuels management crewmembers, and two administrative assistants. Within the ranks, there are twelve paramedics. The department's apparatus consists of a Type I American La France engine, the American La France 100-foot Tiller Quint, a Type III engine, a Type II engine, and a Type II water tender. All personnel adheres to 310-1 (California Incident Command Certification System) training standards set forth by California and meet stringent federal training regulations. The department has the capacity to serve the proposed project site, as well as any commercial development that takes place on the site.

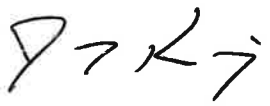
The Pechanga Fire Department's Fire Prevention Division can provide comprehensive fire prevention services to any future commercial development at the proposed project site. Services include plan review, permitting and inspections for construction and hazardous operations, and public education to ensure compliance with Pechanga Building and Safety Ordinances and promote fire safety and emergency preparedness throughout the community. The fire prevention division is staffed by a full-time Division Chief/Fire Marshal and full-time permit technician who also facilitates building permits for Pechanga's contracted building services department. The division has one full-time fire inspector position available to be filled when dictated by the workload and contracts with three consulting firms that provide plan review and inspection services to augment staffing as needed.

The Pechanga Building and Safety Ordinances adopt the International Building and Fire Codes for the construction and maintenance of commercial buildings on the reservation. The ordinance established Pechanga's Development Review Committee comprised of officials from Pechanga's Building, Fire, Cultural, Environmental, Public Works, Water, Electric, and Legal departments to thoroughly consider proposed

development projects for compliance with applicable regulations before construction. The ordinances also establish authority for the building and fire code officials to enforce the laws during and after construction.

Respectfully,

Pechanga Fire Chief



Jason Keeling

APPENDIX F1

RANCHO WATER DISTRICT LETTER FOR APN 961-020-026

Rancho Water

February 23, 2022

Lindsey Fletcher Dollman, Associate General Counsel
Pechanga Office of the General Counsel
Post Office Box 1477
Temecula, CA 92593

SUBJECT: WATER AVAILABILITY
PECHANGA PARKWAY AND WOLF VALLEY ROAD
LOT NO. 15 OF TRACT MAP NO. 29305-1
APN 961-020-026
[PECHANGA BAND OF LUISENO MISSION INDIANS]

Dear Ms. Dollman:

Please be advised that the above-referenced project/property is located within the service boundaries of Rancho California Water District (Rancho Water/District). The subject project/property fronts an existing 20-inch diameter water pipeline (1305 Pressure Zone) and an existing 16-inch diameter recycled water pipeline (1381 Pressure Zone) within Pechanga Parkway; an existing 12-inch diameter potable water pipeline (1305 Pressure Zone) within Wolf Valley Road; and an existing 12-inch diameter potable water pipeline (1305 Pressure Zone) and an existing 8-inch diameter recycled water pipeline (1381 Pressure Zone) within Wolf Creek Drive. Please refer to the enclosed exhibit map.

Water service to the subject project/property does not exist. Additions or modifications to water service arrangements are subject to the Rules and Regulations (governing) Water System Facilities and Service, as well as the completion of financial arrangements between Rancho Water and the property owner.

Water service to individual lots will require the extension of water facilities within dedicated public and/or private right-of-ways. Individual water meters will be required for each lot and/or project unit, including separate water services/meters for domestic service, fire service, and landscape irrigation service, as applicable. Beginning in 2018, newly constructed multi-unit residential structures are required to measure the quantity of water supplied to each individual residential dwelling unit.

Where private on-site water facilities (for water service, fire service, irrigation, or other purpose) will cross or will be shared amongst multiple lots/project units **(only by special variance of the Rules and Regulations)**, and/or where such 'common' facilities will be owned and maintained by a Property Owners' Association, Rancho Water requires execution and recordation of a *Reciprocal Easement and Maintenance Agreement* or equivalent document of covenants, codes, and restrictions.

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Water availability is contingent upon the property owner(s) destroying all on-site wells and signing an Agency Agreement that assigns water management rights, if any, to Rancho Water. **In addition, water availability is subject to water supply shortage contingency measures in effect (pursuant to Rancho Water's Water Shortage Contingency Plan or other applicable ordinances and policy), and/or the adoption of a required Water Supply Assessment for the development, as determined by the Lead Agency.**

In accordance with Resolution 2007-10-5 and subject to a Notice of Determination by Rancho Water, the project/property may be required to use recycled water for all landscape irrigation, which should be noted as a condition for any subsequent development plans. Recycled water service, therefore, would be available upon construction of any required on-site and/or off-site recycled water facilities and the completion of financial arrangements between Rancho Water and the property owner. Requirements for the use of recycled water are available from Rancho Water.

As soon as feasible, and prior to the preparation of California Environmental Quality Act (CEQA) documents, the project proponent should contact Rancho Water for a determination of existing water system capability, based upon project-specific demands and/or fire flow requirements, as well as a determination of proposed water facilities configuration. If new facilities are required for service, fire protection, or other purposes, the project proponent should contact Rancho Water for an assessment of project-specific fees and requirements.

Sewer service to the subject project/property, if available, would be provided by Eastern Municipal Water District. If no sewer service is currently available to the subject project/property, all proposed waste discharge systems must comply with the State Water Resources Control Board, health department, and/or other requirements as they relate to the protection of groundwater quality, pursuant to Rancho Water's Groundwater Protection Policy.

If you should have any questions or need additional information, please contact an Engineering Technician at the District office at (951) 296-6900.

Sincerely,

RANCHO CALIFORNIA WATER DISTRICT

Corry Smith
Engineering Services Supervisor

Enclosure: Exhibit Map

cc: Jeff Kirshberg, Water Resources Manager
Jacob Wiley, Engineering Manager-CIP & Development

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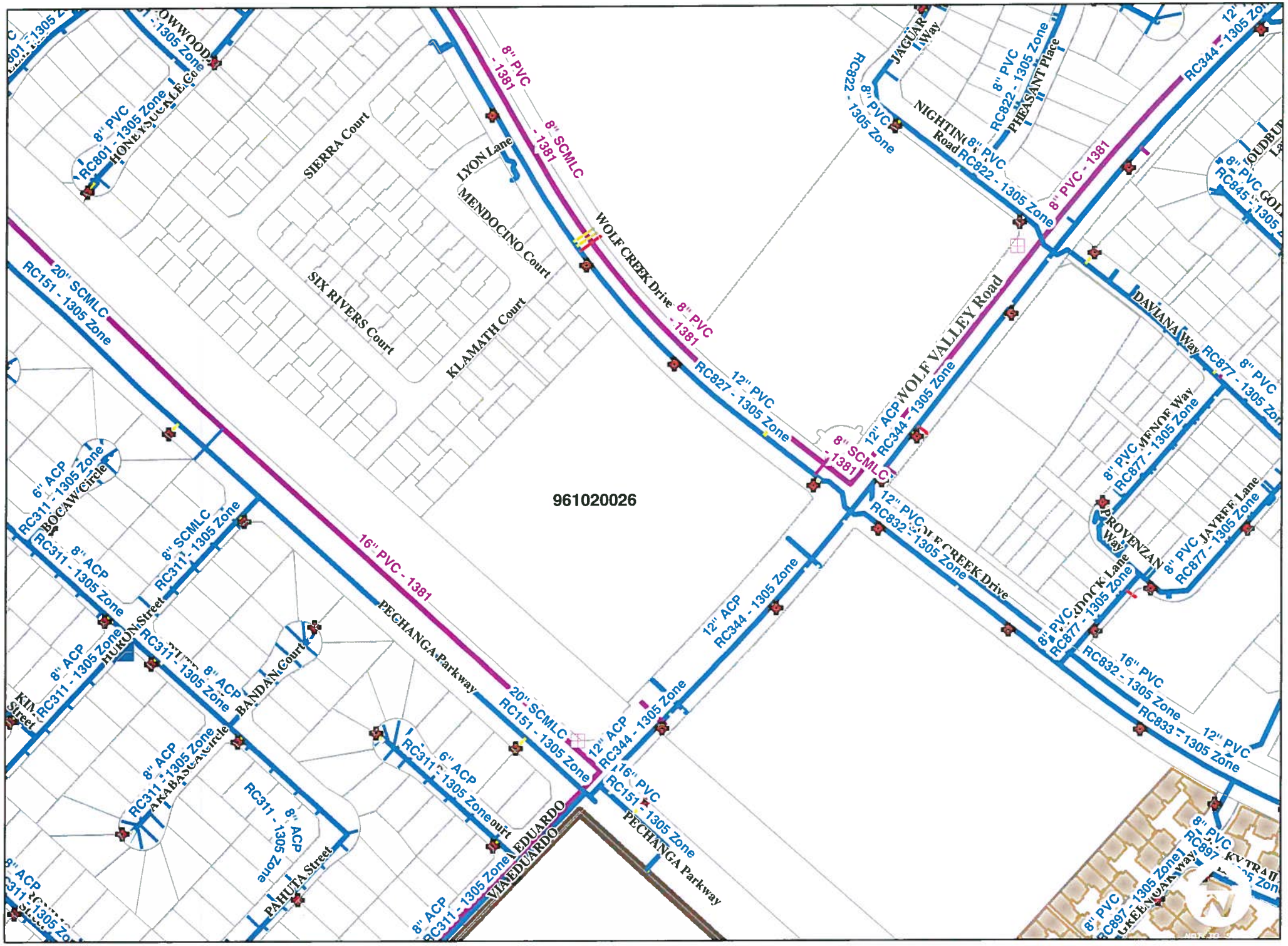
961020026
8" PVC - 1381
8" SCMLC - 1381
WOLF CREEK Drive
12" PVC RC827 - 1305 Zone
8" PVC - 1381
12" ACP RC344 - 1305 Zone
WOLF VALLEY Road
20" SCMLC RC151 - 1305 Zone
16" PVC - 1381
PECHANGA Parkway
SIERRA Court
LYON Lane
MENDOCINO Court
SIX RIVERS Court
KLAMATH Court
HONEYSUCKLE Co
RC801 - 1305 Zone
RC822 - 1305 Zone
JAGUAR Way
NIGHTINGALE Road
PHEASANT Place
RC344 - 1305 Zone
DAVIANA Way
RC877 - 1305 Zone
PROVENZANO Way
JAYREE Lane
RC832 - 1305 Zone
RC833 - 1305 Zone
6" ACP RC311 - 1305 Zone
8" ACP RC311 - 1305 Zone
8" SCMLC RC311 - 1305 Zone
ROCAW Circle
HURON Street
BANDAN Court
AKABASCA Circle
PAHUTA Street
VIA EDUARDO
RC897 - 1305 Zone
KYTRAIL

APPENDIX F2

RANCHO WATER DISTRICT LETTER FOR APN 962-010-007

Rancho Water

February 23, 2022

Lindsey Fletcher Dollman, Associate General Counsel
Pechanga Office of the General Counsel
Post Office Box 1477
Temecula, CA 92593

SUBJECT: WATER AVAILABILITY
PECHANGA PARKWAY AND WOLF VALLEY ROAD
LOT NOS. C AND D OF MAP BOOK NO. 008/361
APN 962-010-007
[PECHANGA BAND OF LUISENO MISSION INDIANS]

Dear Ms. Dollman:

Please be advised that the above-referenced project/property is located within the service boundaries of Rancho California Water District (Rancho Water/District). The subject project/property fronts an existing 16-inch diameter potable water pipeline (1305 Pressure Zone) within Pechanga Parkway; an existing 12-inch diameter potable water pipeline (1305 Pressure Zone) within Wolf Valley Road; and an existing 12-inch diameter potable water pipeline (1305 Pressure Zone) and an existing 16-inch diameter potable water pipeline (1305 Pressure Zone) within Wolf Creek Drive. Please refer to the enclosed exhibit map.

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If you should have any questions or need additional information, please contact an Engineering Technician at the District office at (951) 296-6900.

Sincerely,

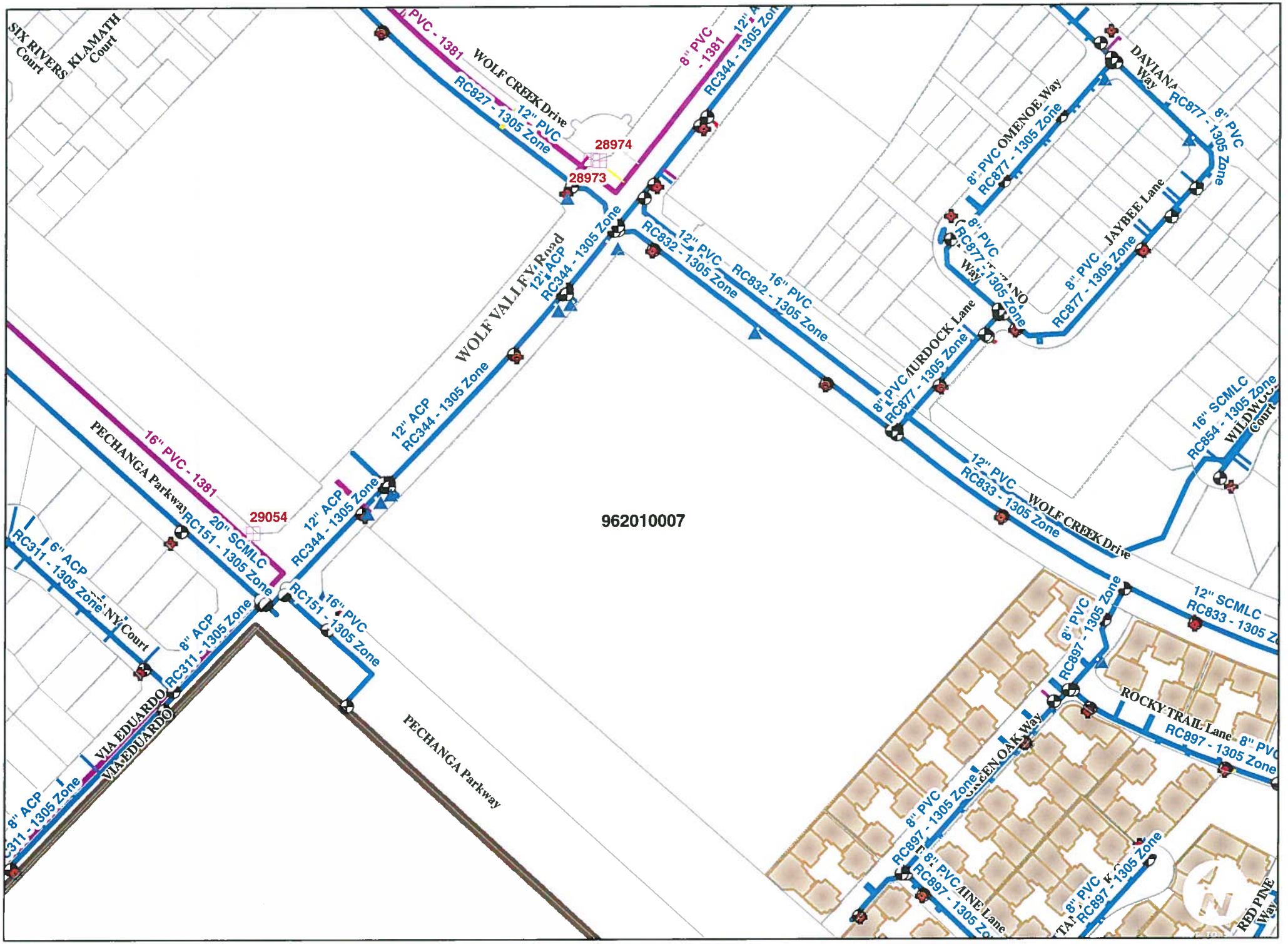
RANCHO CALIFORNIA WATER DISTRICT

Corry Smith
Engineering Services Supervisor

Enclosure: Exhibit Map

cc: Jeff Kirshberg, Water Resources Manager
Jacob Wiley, Engineering Manager-CIP & Development

22\CS:rm004\F450\FEG


962010007
28974
28973
29054
16" PVC - 1381
RC827 - 1305 Zone
12" PVC
WOLF CREEK Drive
8" PVC - 1381
RC344 - 1305 Zone
WOLF VALLEY Road
12" ACP
RC344 - 1305 Zone
12" PVC - RC832 - 1305 Zone
16" PVC
RC832 - 1305 Zone
8" PVC OMENOE Way
RC877 - 1305 Zone
DAVIANA Way
RC877 - 8" PVC
JAYBEE Lane
8" PVC - 1305 Zone
8" PVC AURDOCK Lane
RC877 - 1305 Zone
16" SCMLC
RC854 - 1305 Zone
12" PVC - WOLF CREEK Drive
RC833 - 1305 Zone
12" SCMLC
RC833 - 1305 Z
16" PVC - 1381
20" SCMLC
RC151 - 1305 Zone
PECHANGA Parkway
6" ACP
RC311 - 1305 Zone
8" ACP
RC311 - 1305 Zone
VIA EDUARDO
16" PVC
RC151 - 1305 Zone
PECHANGA Parkway
8" PVC
RC897 - 1305 Zone
ROCKY TRAIL Lane
RC897 - 8" PVC
8" PVC
RC897 - 1305 Zone
8" PVC
RC897 - 1305 Zone
RED PINE

APPENDIX G

EMWD LETTER

PECHANGA INDIAN RESERVATION
Temecula Band of Indians

OFFICE OF THE GENERAL COUNSEL
Post Office Box 1477 • Temecula, CA 92593
Telephone (951) 770-6000 Fax (951) 695-7445

General Counsel
Steve Bodmer

Deputy General Counsel
Michele Hannah

Senior Associate General Counsel
Sana Swe

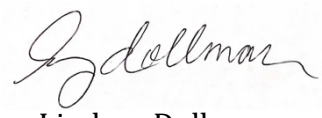
Associate General Counsel
Lindsey Fletcher

February 22, 2022

Re: Record of Conversation

On February 17, 2022, I had a phone conversation with Brenda Dumas, Executive Assistant for Development Services at Eastern Municipal Water District ("EMWD"). Ms. Dumas confirmed the Wolf Valley properties are within EMWD's waste water treatment service area, there are existing sewer facilities at the properties, and EMWD could provide waste water treatment services to the properties.

Sincerely,



Lindsey Dollman
Associate General Counsel